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CLEMSON COLLEGE

RECORD

SIXTY-NINTH YEAR

CATALOG NUMBER

1961-1962

Preliminary Announcements 1962-1963

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Faculty meeting to consider candidates for graduation	August 12

SESSION 1961-1962

Advanced Placement Examinations	September 7
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Registration, new students	September 12
Matriculation and registration, current students	September 12, 13
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Classes begin, abbreviated schedule	September 14
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Last day for matriculation	September 20
Last day to add a subject	September 27
Last day to drop a subject without record of drop	October 11
Last day to order diploma for mid-year graduation	October 14
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Matriculation, new students	January 29
Registration, new students	January 31
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Late Registration Fee applies	February 2
Classes begin, abbreviated schedule	February 2
Abbreviated class schedule	February 3
Last day for matriculation	February 8
Last day to add a subject	February 15
Last day to drop a subject without record of drop	March 1
Last day to order diploma for June graduation	March 1
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Examinations begin	May 23
Faculty meeting to consider candidates for graduation	June 1
Commencement	June 2

SUMMER SESSION 1962

First Term

Matriculation, new students	June 11
Matriculation and Registration	June 12
Classes begin	June 13
Independence Day Holiday	July 4
Examinations	July 20, 21

Second Term

Matriculation and Registration	July 23
Classes begin	July 24
Examinations	August 23, 24
Faculty meeting to consider candidates for graduation	August 25

SESSION 1962-1963

Advanced Placement Examinations	September 6
Matriculation, new students	September 7
Registration, new students	September 11
Matriculation and registration, current students	September 11, 12
Late registration fee applies	September 13
Classes begin, abbreviated schedule	September 13
Abbreviated class schedule	September 14
Last day for matriculation	September 19
Last day to add a subject	September 26
Last day to drop a subject without record of drop	October 10
Last day to order diploma for mid-year graduation	October 13
Preliminary reports due	October 29
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Clemson-Carolina Football Game	November 24
Christmas Holidays begin at 1 p. m.	December 15
Classes resumed	January 3
Examinations begin	January 17
Faculty meeting to consider candidates for graduation	January 25
Mid-year graduation	January 26
Matriculation, new students	January 28
Registration, new students	January 30
Matriculation and registration, current students	January 30, 31
Late registration fee applies	February 1
Classes begin, abbreviated schedule	February 1
Abbreviated class schedule	February 2
Last day for matriculation	February 7
Last day to add a subject	February 14
Last day to drop a subject without record of drop	February 28
Last day to order diploma for June graduation	February 28
Preliminary reports due	March 19
Easter Holidays begin at 1 p. m.	April 11
Classes resumed	April 17
Honors and Awards Day—classes suspended at 12 noon	May 1
Examinations begin	May 22
Faculty meeting to consider candidates for graduation	May 31
Commencement	June 1

1962

JANUARY

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JANUARY

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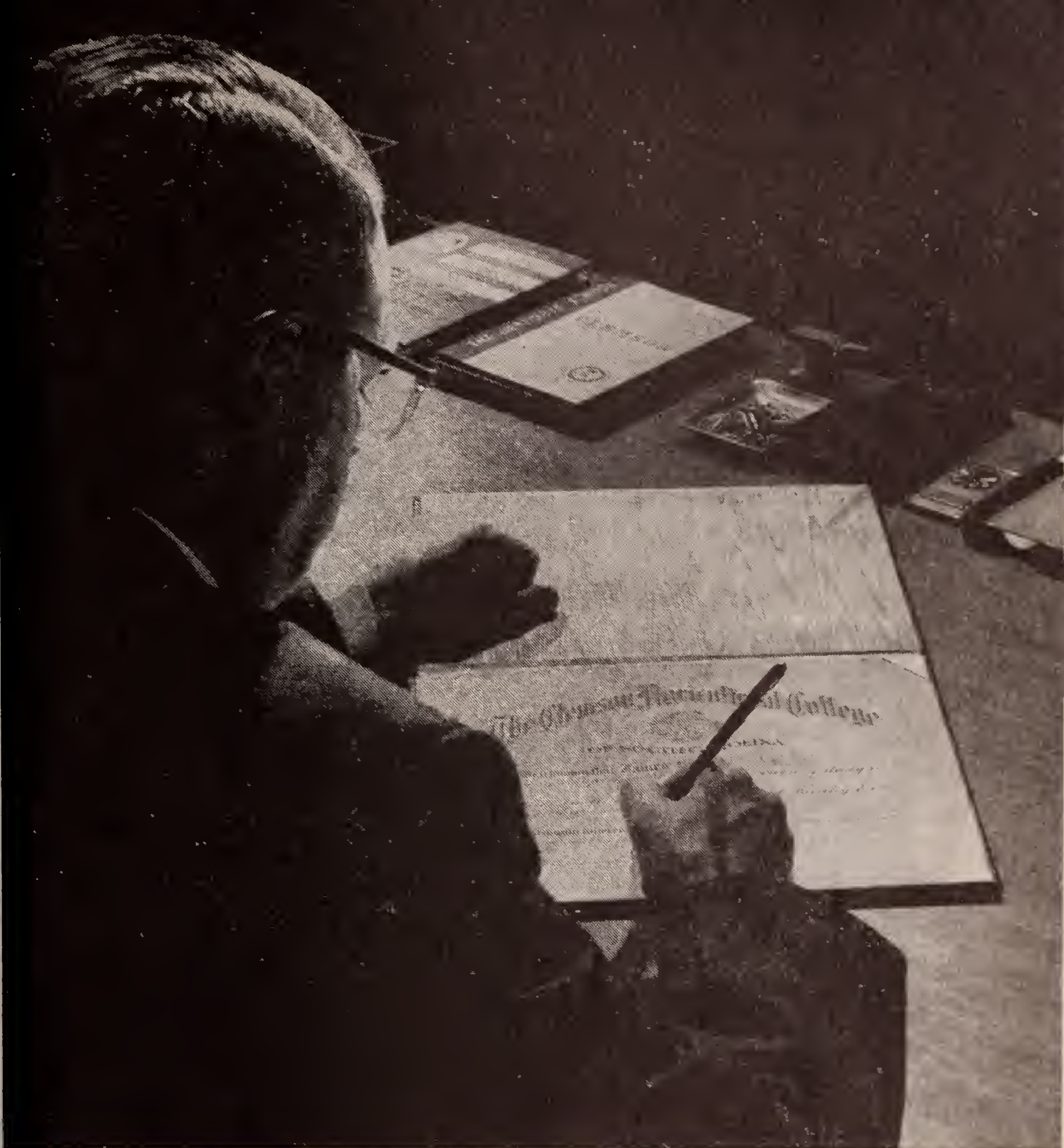

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Personnel

PART I—Personnel

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TERM EXPIRES 1964

TERM EXPIRES 1966

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B.S., 1951, M.S., 1953, University of North Carolina; Ph.D., Virginia Polytechnic Institute, 1959.

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A.B., 1947, LL.B., 1950, University of Georgia.

BROWNLEE, EMORY WILLIAM, *Lecturer in Military Science.*
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BROWNLEY, FLOYD IRVING, JR., *Head of Chemistry and Geology Department; Professor of Chemistry.*
B.S., Wofford College, 1939; M.S., Virginia Polytechnic Institute, 1941; Ph.D., Florida State University, 1952.

BROYLES, HARMON EUSTACE, *Associate Professor of Electrical Engineering.*
B.S., 1927, E.E., 1928, Virginia Polytechnic Institute.

BRUNER, MARLIN HARNER, *Associate Professor of Forestry; Forester.*
B.S., Pennsylvania State College, 1931; M.F., Yale University, 1932; Graduate Work, Yale University, 1932-1933.

BURCH, THOMAS AUGUSTUS, *Assistant Agricultural Economist.*
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BURTNER, FRANK ALAN, *Professor of Sociology.*
B.A., M.A., University of Texas, 1938; Ph.D., University of North Carolina, 1958.

BUXTON, JAY A., *Assistant Professor of Entomology and Zoology; Assistant Entomologist.*
B.S., Southwest Texas State Teachers College, 1948; M.A., University of Texas, 1950; Ph.D., Ohio State University, 1957.

BYRD, WILBERT PRESTON, *Associate Professor of Agronomy; Associate Agronomist.*
B.S., 1949, M.S., 1952, North Carolina State College; Ph.D., Iowa State University, 1955.

CALHOUN, RICHARD JAMES, *Assistant Professor of English.*
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CAMPBELL, THOMAS ALEXANDER, JR., *Head of Textile Management Department; Professor of Textiles.*
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CARODEMOS, PETER, *Professor of Chemistry.*
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MCGARITY, HUGH HARRIS, *Professor of Music Education.*
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MCHUGH, CARL MANNING, *Associate Professor of Engineering Graphics and Machine Design.*
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Graduate, Rhode Island School of Design, 1922; Bradford-Durfee Textile School, 1925; B.S., Clemson Agricultural College, 1930; M.S., University of Tennessee, 1933.

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Major, United States Army Air Force; Central Instructor School, 1944; Air Command and Staff School, 1945; B.G.E., University of Omaha, 1958.

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B.S., Ohio University, 1942; M.S., 1947, Ph.D., 1954, Iowa State College.

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Major, Quartermaster Corps, United States Army; The Quartermaster School, 1944; B.B.A., University of Texas, 1949.

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B.Cer.E., North Carolina State College, 1940.

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B.S., Clemson Agricultural College, 1919.

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A.A., Pasadena Junior College, 1935; B.S. in C.E., Southern Methodist University, 1941; M.C.E., Clemson Agricultural College, 1956.

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B.Arch., University of Texas, 1949; D.Arch., Universidad Nacional Colombia, 1951.

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B.S., State College of Washington, 1925; M.A., 1927, Ph.D., 1929, University of California.

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Captain, United States Air Force; Senior Pilot; B.S., University of Oklahoma, 1950; Graduate Work, Clemson Agricultural College, 1959-1961.

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B.S., East Tennessee State College, 1930; M.S., University of Tennessee, 1935; Graduate Work, George Peabody College, Summer, 1938; University of Missouri, Summers, 1940, 1941, Spring, 1941; Michigan State College, Summer, 1949.

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Major, C.E., United States Army; B.S., University of Alabama, 1949; The Infantry School, 1952; The Engineer School, 1953, 1955; B.S., A & M College of Texas, 1956.

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License es Vivantes Lettres, University of Geneva, 1953; Graduate Work, Duke University, 1957-1959.

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B.S., 1925, M.S., 1950, Clemson Agricultural College.

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B.S., 1951, B.Arch., 1952, Georgia Institute of Technology.

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B.S., Clemson Agricultural College, 1950; M.S., Georgia Institute of Technology, 1955; Graduate Work, University of Alabama, 1959-1960, Summer, 1960.

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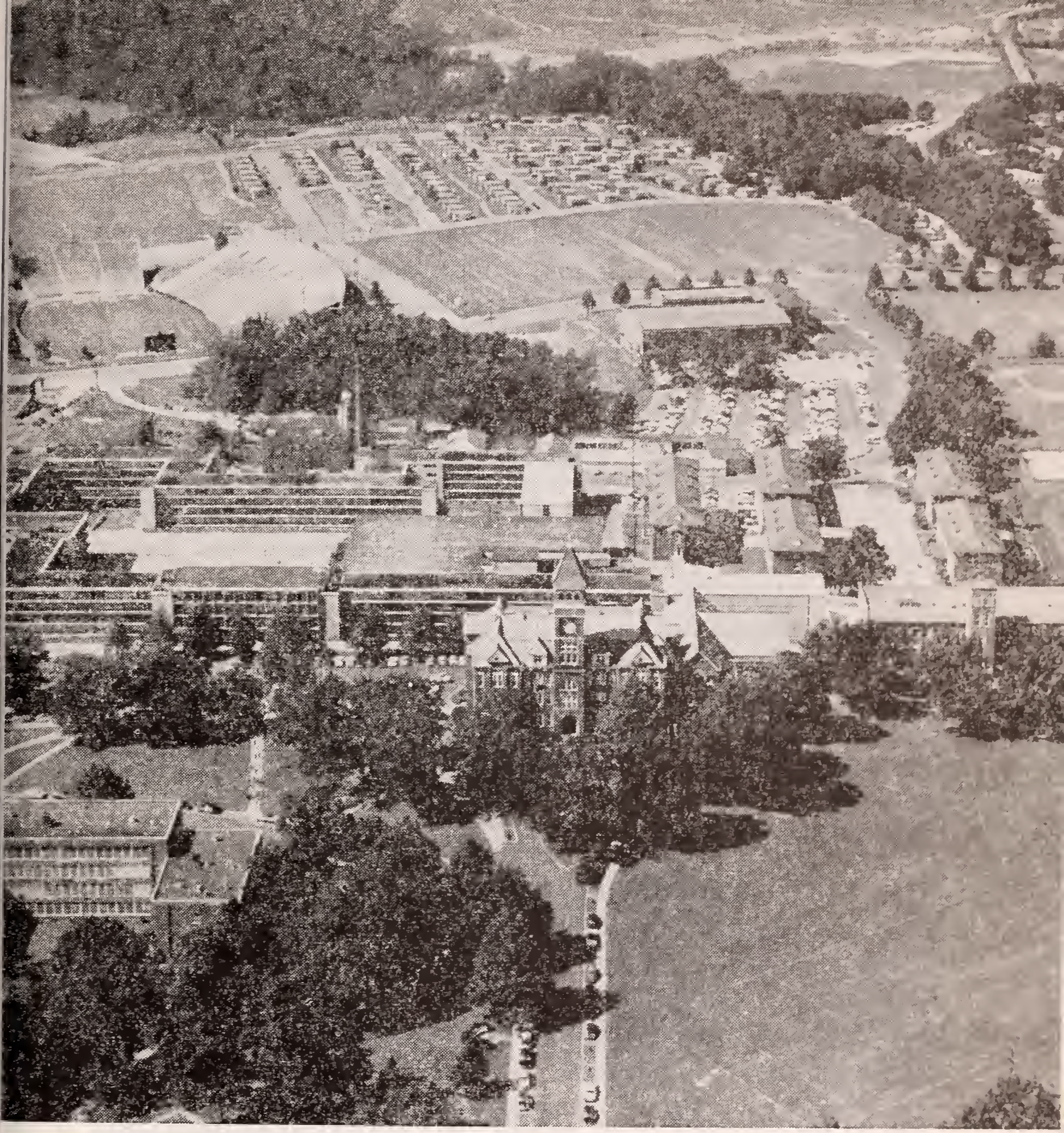
National Council

District	*Term Expires*		
1	—1963—	S. B. Earle, Jr., '30	Anderson, S. C.
2	—1964—	J. F. Blackmon, '16	Greenville, S. C.
3	—1962—	Marshall Walker, '41	Rock Hill, S. C.
4	—1963—	A. H. Ward, '14	Aiken, S. C.
5	—1964—	J. B. Caughman, '26	Columbia, S. C.
6	—1962—	M. R. Lawton, '40	Estill, S. C.
7	—1963—	A. C. Swails, '35	Kingstree, S. C.
8	—1964—	W. R. Gill, '36	Florence, S. C.
9	—1962—	W. H. Cuttino, '28	Bloomington, Ind.
10	—1963—	Dallas Sherman, '29	New York, N. Y.
11	—1964—	Hubert T. Prosser, '12	New Orleans, La.
12	—1962—	T. Scott DuBose, '34	Altadena, Calif.
13	—1963—	M. D. Berry, '13	Atlanta, Ga.
14	—1964—	Jesse A. White, '24	Greensboro, N. C.
15	—1962—	W. Chester Cobb, '34	Providence, R. I.
At Large	—1962—	Frank Gunby, Sr., '02	Winchester, Mass.
At Large	—1963—	E. O. Lightsey, '33	Hampton, S. C.
At Large	—1964—	W. C. Snyder, '30	Midland, Texas
Faculty Rep.	—	G. F. Meenaghan	Clemson, S. C.
Faculty Rep.	—	B. D. Barnett	Clemson, S. C.
Student Rep.	—	Bob Newton	Clemson, S. C.
Past President, Alumni Association—		P. N. Calhoun, '32	Charlotte, N. C.
Past President, Alumni Association—		Claude S. Lawson, '15	Birmingham, Ala.



PART II

Information

PART II—Information

GENERAL INFORMATION

Clemson is a land-grant, state-supported institution operating on the university pattern. Clemson is fully accredited by the Southern Association of Colleges and Secondary Schools.

The thirty undergraduate and twenty-four graduate curriculums under the Schools of Agriculture, Architecture, Arts and Sciences, Engineering, and Textiles form a background of training for the hundreds of occupations and professions in which Clemson graduates engage. The College is organized on a basis whereby it retains a clear entity through the interrelationships of schools and departments providing a well-balanced fundamental and general educational program.

The enrollment of Clemson has grown from 446 students at the opening of the College in 1893 to 4,104 for the first semester, 1961-1962. Since the opening of the College, through the first semester 1961-1962, 41,917 students have attended Clemson and of this number 14,878 have been awarded the bachelor's degree. During this same period, 450 masters' degrees and one Doctor of Philosophy degree were awarded.

ADMINISTRATIVE ORGANIZATION

The government of the College is vested in a Board of 13 members, including 6 elected by the Legislature and 7 life and self-perpetuating members, in accord with the Clemson will. The President of the College is the chief executive and administrative officer appointed by the Board of Trustees; and under the President there are four areas of administration, each headed by a chief administrative officer responsible to the President. The organizational units under each of these officers are outlined below:

I. Dean of the College
- A. School of Agriculture
- B. School of Architecture
- C. School of Arts and Sciences
- D. School of Engineering
- E. School of Textiles
- F. The Graduate School
- G. Extended Programs
- H. The College Library

II. Dean of Student Affairs
- A. Admissions and Registration
- B. Student Center and Y. M. C. A.
- C. Student Aid and Placement
- D. Athletic Department
- E. Student Health Service
- F. College Bands

III. The Comptroller
- A. Accounting Division
- B. Personnel Division
- C. Physical Plant Division
- D. Purchasing Division
- E. Auxiliary Enterprises
- F. The Clemson House Hotel

IV. Vice-President for Development
- A. Public and Alumni Relations
- B. Planning
- C. Sponsored Research
- D. Fund Development

REQUIREMENTS FOR ADMISSION

Entrance Requirements. The minimum requirements for entrance to Clemson include graduation from an accredited high school with at least 16 units and a satisfactory score on the entrance examination. In addition to these minimum requirements, the student's academic preparation, rank in class, and recommendation of the high school principal will be used in appraising the eligibility of the student for admission.

Students planning to attend Clemson are advised to plan, if possible, their high school programs to include in their preparation the following units:

English	4	Geometry	1
Algebra	2	Physics	1
Chemistry	1	Trigonometry	½

It is appropriate for students planning to enroll in Agriculture and Pre-Medicine to include biology in their science program.

Effective in 1964, college algebra and trigonometry will no longer be included in the Clemson Engineering and Industrial Management curriculums. The first mathematics course applicable toward an Engineering or Industrial Management degree after that date will be analytic geometry.

In addition, students may qualify for entrance in one of the following ways:

(1) Satisfactory scores on the College Board entrance examination and a South Carolina High School Certificate (by certificate examination).

(2) Satisfactory scores on the College Board entrance examination and completion of a minimum of 12 high school units. Students in this category are required to make scores on the entrance examination which will place them in the upper one-fourth of the freshman class at Clemson.

(3) Students who make satisfactory scores on the College Board entrance examination and who meet the following requirements may qualify for entrance with advanced standing:

Work that has been completed in other colleges with a grade one letter grade higher than the lowest passing grade will be carefully considered and evaluated in terms of equivalent courses in the curriculum at Clemson selected by the student. The applicant must present for consideration: (a) a statement of honorable dismissal from the institution last attended, (b) an official transcript of his record, including entrance credits, and (c) an official statement that he is eligible to return to the institution last attended. College credits given by transfer are provisional and may be cancelled at any time if the student's work is unsatisfactory. A student coming from another institution must spend at least his last year in residence at the College before he is eligible to apply for a degree.

In order for a transfer student to be considered for enrollment, his complete application, including test scores, transcripts and statement of eligibility, must be on file in the Admissions Office at least two weeks prior to the date of desired matriculation. Exception will be made only in the case of a student enrolled in another college who is applying for mid-year entrance. For admission in September 1962 these materials must be submitted not later than August 23.

Application Forms. Forms to be used in applying for admission to the College may be obtained by writing the Office of Admissions and Registration, Clemson College, Clemson, South Carolina.

Entrance Examinations. All candidates for admission to Clemson College on the undergraduate level must take the College Entrance Examination Board tests including the Scholastic Aptitude Test given in the morning session and the achievement tests in English Composition and Intermediate Mathematics given in the afternoon session.

Applicants may secure a Bulletin of Information and an application for the tests from their local high school principals or guidance counselors. Should this literature not be available at the high school, the applicant should write to College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey, requesting a Bulletin of Information for administration of the Scholastic Aptitude Test and Achievement Tests.

All applicants are reminded to forward applications for the entrance examinations as indicated in the Bulletin of Information, and not to Clemson College.

The following points are important:

(1) Be sure to list Clemson on your application for the entrance examinations as one of the schools to receive your examination scores.

(2) Pass or fail reports will not be issued from Clemson unless an official application for entrance is on file in the Office of Admissions and Registration.

(3) Your entrance examination application should be in the hands of the College Entrance Examination Board not less than four weeks prior to your chosen examination date.

(4) Up to five weeks is required for College Board to furnish examination scores, and you should schedule your entrance examination at an early enough date to allow ample time for your scores to be received prior to your planned entrance date.

Qualifying Examinations. As a part of the entrance examination, all candidates for admission to Clemson are required to take the qualifying examination in Intermediate Mathematics. The purpose in giving the test is to determine which students are in need of a review course in mathematics before attempting college courses in this important subject. Those who have satisfactorily completed college courses in mathematics will not be required to take the review course. It is in the interest of the student that he is required to take such a review course if he does not make a qualifying score on the placement test. Such students may begin taking their other freshman subjects, but will postpone freshman mathematics until after they complete satisfactorily the review course required.

Exemption Examinations. In order to meet more effectively the needs of abler students in the freshman class, Clemson offers exemption examinations in mathematics, chemistry, English, engineering graphics, and American history. Eligibility to stand exemption examinations is based on performance on the entrance examination. Students are encouraged to take the examinations for which they qualify, but participation is entirely voluntary. Information of exemption examinations is included with the report on entrance examinations.

Matriculation. Students upon arrival at the College at the opening of the session must report at once to the Office of Admissions and Registration. New students will be directed in the procedure necessary to complete their enrollment. A student's matriculation with the College is equivalent to his pledge to conform to the rules of the institution. Any admission gained or matriculation made irregularly is subject to cancellation.

Policy on Admission of Students from Other Countries. Clemson College will accept a limited number of well-qualified students from other countries. The application for admission must be in English on the official application form furnished by the Office of Admissions and Registration. Official transcripts of all high school and college level work which the applicant has undertaken should accompany the application, plus a certificate from a competent medical authority attesting to the good health of the applicant.

In addition to academic and personal qualifications equivalent to those required of United States citizens, the applicant from another country is required to submit evidence of proficiency in oral and written English and of dollar resources adequate without assistance from the College for at least the first year of his course of study, including round trip travel expenses. The College is unable to grant scholarship or fellowship assistance to students from abroad and there is little likelihood that any type of employment may be secured.

If accepted, students from other countries should have a minimum of $600 in their possession upon reporting to the College. This amount is sufficient to make the entrance payment which includes tuition and fees for a semester, living expenses for one-half semester, and books and supplies.

The College reserves the right at any time to require foreign students to take a course or courses to remedy deficiencies in prior preparation for work at Clemson.

EDUCATIONAL BENEFITS FOR VETERANS

Public Law 550. Eligible veterans who have served in the active service in the Armed Forces for 90 days or more during the period beginning June 27, 1950, and who have been discharged or released from active service under conditions other than dishonorable, may qualify for a program of education or training under Public Law 550, "Veterans' Readjustment Assistance Act of 1952."

In general, each eligible veteran shall be entitled to education or training for a period equal to one and a half times the duration of his active service in the Armed Forces during the basic service period with a maximum period of entitlement of 36 months.

Information and forms for the filing of applications for assistance are provided by the Veterans' Administration.

Each eligible veteran enrolled in a program of education under this act will receive an allowance for the expenses of his subsistence, tuition, fees, supplies, books and equipment. For veterans enrolled on a full-time basis, allowances will be computed at the rate of $110 per month, if the veteran has no dependent, or at $135 with one dependent, or $160 with more than one dependent.

A South Carolina veteran qualified under Public Law 550 and living in the dormitories will make, during the year, four payments totaling $888 to the College for room, board, tuition and all fees. A South Carolina veteran living off the campus or in a housing unit will make two payments of $178 to the College for tuition and fees. These payments are due according to the schedule of payments on page 45 of this catalog. Arrangements for payments other than as scheduled must be made with the College Bursar prior to the date the payment is due.

Veterans enrolled under Public Law 550 must carry a minimum of 14 semester credit hours to qualify for full benefits. Veterans enrolled for remedial mathematics must carry a minimum of 12 semester credit hours in addition to the remedial course in order to qualify for full benefits.

Public Law 894. For veterans qualified for benefits under Public Law 894, the Veterans' Administration pays tuition, fees and the cost of necessary books and supplies. The veteran pays his own living expenses, but the subsistence checks to be received by the veteran will more than reimburse him for the cost of living in the dormitories at Clemson.

SELECTIVE SERVICE REGULATIONS

Registration. For the benefit of students who become 18 years of age during the school year, provision has been made for such students to register for selective service in the Office of Admissions and Registration on the campus. The registration is then sent through channels to the registrant's local board.

Deferment. Students enrolled at Clemson who are subject to the provisions of the Selective Service Act may qualify for deferment to continue their education in several ways.

(1) Students enrolled in either Air Force or Army ROTC at Clemson College may be deferred from induction, after their first semester freshman year, until after graduation. Mere enrollment in the ROTC itself is no guarantee against induction. The cadet must further remain in good standing in both military and academic courses and continue to demonstrate his potential for becoming an effective officer.

(2) Any student who is called for induction during his school year is entitled to one statutory postponement to enable him to complete his school year. Thus, a student entering in September and called for induction during the year is deferred to enable him to complete the school year ending in June provided he has not previously received a postponement.

(3) Students may qualify for deferment to enable them to progress to the next class on the basis of their rank in the previous class. Thus, freshmen in the upper half of their class may be deferred for the sophomore year, sophomores in the upper two-thirds for the junior year and juniors in the upper three-fourths for the senior year.

(4) Students may qualify for deferments by attaining the required score on the Selective Service Qualification Test.

EXPENSES

Settlement of College Fees. Transactions relating to payments should be conducted with the Accounting Division of the Comptroller's Office. Remittances may be made in cash, or by money order, cashier's check, or personal check payable to Clemson Agricultural College. All remittances made by mail should be addressed to the Accounting Division, Comptroller's Office, Clemson, South Carolina. A personal check given in payment of expenses which is returned by the bank unpaid subjects the student to having his enrollment cancelled.

Tuition and fees for the full semester and living expenses for one-half of the semester are payable in advance at the beginning of each semester. (See section on Living Conditions and Costs for detailed information concerning advance payment of room rental.) Living expenses for the second half of the first semester will be due November 10 and for the second half of the second semester on April 1.

Refund of Academic Fees for Students Enrolled for Less than a Full Semester. Generally, no adjustments in charges will be made on a semester's tuition and fees after five weeks from the date classes begin for the semester. Charges for periods of attendance of five weeks or less during a semester shall be made on the following basis:

Two weeks or less	20%
More than 2 but not more than 3 weeks	40%
More than 3 but not more than 4 weeks	60%
More than 4 but not more than 5 weeks	80%
More than 5 weeks	100%

Special provision has been made for a student who is required to discontinue his enrollment to report for active duty in the Armed Forces of the United States. Such students shall be charged for tuition, maintenance and activity fee, and medical fee on a daily pro rata basis, holidays excepted, instead of the percentage basis stated above; provided that such discontinuance of enrollment is the result of circumstances, conditions, or actions over which the student has no control.

Refund of Dining Hall and Dormitory Fees. Specific information relating to living expense refunds is given in the sections on dormitories and dining hall. However, no refund of any living expense items shall be due if the paid unused period in the quarter (one-half semester) is two weeks or less. The Dean of Student Affairs shall approve all living status changes and there shall be no reduction of charges for late matriculation. The beginning date of any refund period shall be determined by the Dean of Student Affairs.

Schedule of Charges. The College reserves the right to adjust charges to current costs. The 1962-1963 charges for full-time students for tuition, fees and living expenses, including room and board, are shown below:

First Semester

First Payment:	*S. C. Student*	*Non-Resident Student*
Tuition (Semester)	$ 75.00	$200.00
Matriculation Fee (Non-refundable)	5.00	5.00
Maintenance and Activities Fee (Semester)	121.00	121.00
Medical Fee (Semester)	13.00	13.00
Room and Board (½ Semester)	140.00	140.00
Total Entrance Payment	$354.00	$479.00
Second Payment:		
Room and Board (Due Nov. 10)	140.00	140.00
Total First Semester	$494.00	$619.00

Second Semester

Charges for the second semester are the same as the first semester. The payment for room and board for the last half of the second semester is due April 1.

Part-time Students. Undergraduate students taking less than 12 semester credit hours will be charged each semester according to the following schedule:

	S. C. Student	*Non-Resident Student*
Matriculation Fee (non-refundable)	$5.00	$ 5.00
Tuition (per semester hour)	6.00	16.00
Maintenance and Activities Fee (per semester hour)	9.00	9.00

Auditing. Charges for auditing will be one-half the amount charged for special students taking courses for credit, except that no matriculation fee will be charged.

Graduate Students. For further information concerning advanced degrees see *The Graduate Bulletin,* which may be obtained from the Offices of Admissions and Registration or the Dean of the Graduate School.

Definition of Residence for the Purpose of Determining the Payment of Tuition Fee. Out-of-state students pay a higher fee for tuition than South Carolina students. All students whose parents have not been domiciled in South Carolina for at least 12 months immediately preceding the day of their first enrollment in the institution shall be termed, for this purpose, to be out-of-state students, with the following exceptions:

(a) Students under 21 years of age who have resided in South Carolina for at least 24 months preceding the day of their first enrollment.

(b) Students 21 years of age or over at the time of their first matriculation who have resided in South Carolina for at least 12 months preceding the day of their first enrollment.

(c) Children of regularly employed Clemson College staff members.

The term "domiciled in South Carolina" means that the student is not in the State primarily to attend the institution and that his abode in South Carolina has not been set up merely as a technical bar to the higher tuition charge. Residence in the State by virtue of attendance in college or temporary military assignments may not be counted as satisfying the requirement for registration as a South Carolina resident.

Books and Supplies. The cost of books is not included in the figures given above. The cost of books and supplies at the beginning of the semester will be approximately $35. Students taking drawing must, in addition, purchase drawing instruments and equipment which cost approximately $42.

Late Registration Fee. To prevent or reduce the problems incident to late registration, registration schedules are set for specific days, and certain definite procedures are outlined. A student has not completed registration until all of the required steps are taken, the final one being the return of the properly signed Class Registration Card to the Office of Admissions and Registration. Any undergraduate student who fails to register for classes on the prescribed class registration days will be charged a late registration fee of $10. This late registration fee applies to full-time and part-time undergraduate students.

Student Banking Accounts. For the convenience of students, the College operates a banking department in the Bursar's Office where money can be deposited and withdrawn as the occasion may demand. This service is purely local. Students are urged to deposit their money in the bank and not to keep it in their rooms.

Optional Expenses. It is not possible to give an estimate of a student's expenditures for such amusements as dancing, moving pictures, etc. This depends largely upon the disposition of the student. The College endeavors to reduce to a minimum the temptation to spend money needlessly, but the authorities cannot be responsible for a student's private expenditures. This must be a matter between the student and his parents.

Transcripts. Official transcripts of scholastic records are issued on request. One transcript is furnished free; additional copies are issued for $1 each. Remittances for transcripts should be made payable to Clemson College, but should accompany transcript requests and should be mailed to the Office of Admissions and Registration.

LIVING CONDITIONS AND COSTS

Dormitories. Cost per semester $100.00.

Life in the student dormitories is under the direction of dormitory supervisors who are responsible to the Dean of Student Affairs through a resident dormitory manager. Students are required to comply with published dormitory rules and regulations.

Residence hall accommodations are rented on a semester basis and rent on all dormitories is $100 per semester. Before assignment to a room can be made, an advance payment of $50 for one-half of a semester's rent must be made.

Students who are enrolled in the spring semester are given priority on room assignments for the fall semester provided a room request is filed and the payment of $50 made during the established priority period. Assignment after this date will be made on a first come, first served basis. New students and former students not currently enrolled will be sent necessary room application forms with the notification of acceptance.

Students who have made an advance payment and later decide not to enroll or to live in the dormitory may obtain a refund of the advance payment provided notification of intent and request for refund is received in the Dormitory Office prior to August 15 for the fall semester and prior to February 1 for the spring semester. When such notification and request is not received, no refund of the advance payment will be made. When an enrolled student is assigned and occupies a room at the beginning of a semester, he is obligated for the half semester's rent and no refund will be made.

If a student's arrival on the campus is to be delayed, he should notify the dormitory manager in order that his room assignment will not be cancelled. Failure to file such notice within the first five days of the semester shall give the College the right to cancel the room assignment.

Each student room is equipped with single-width beds, built-in clothes lockers, study table and two chairs. Bed linen, bed covers, pillows, towels, and laundry bags must be furnished by the students. Students are responsible for the cleanliness of their rooms.

There are eight men's dormitories that house approximately 3,200 students. The room fees are the same for all dormitories. Students are housed two per room with dormitory and room assignment made insofar as possible in accordance with each student's preference.

Radios and record players may be played so long as they do not disturb other dormitory residents. They must be played softly and may not be placed in or near a window or door while in operation.

No student shall have nor operate a television set in a dormitory room.

The College will not be liable for articles lost or stolen in the dormitories.

At the present time dormitory facilities are not available for women students, and they must find housing facilities in the town of Clemson and surrounding areas.

Dining Hall. Cost per semester $180.

The new College Dining Hall offers a counter-service cafeteria-type meal to students. Six large counters provide timely service of quality foods.

Students who live in the dormitories will be required to pay the Dining Hall fee. Students who live outside the dormitories may take all meals in the Dining Hall if they pay for such meals on the semester basis. Commuting students may eat the mid-day meal in the Dining Hall on a 5-day-week plan (Monday through Friday) by paying for the meal on the semester basis. The cost is $55 per semester.

Dining Hall services will not be provided during the Christmas Holidays.

Refund of paid unused services during the quarter (one-half semester) is made on a daily pro rata basis, holidays excepted, provided the unused portion is more than 14 consecutive complete days.

Laundry-Dry Cleaning. A new building with modern equipment is conveniently located on the campus to service the laundry and dry cleaning requirements of the student. Reasonable prices are charged for individual items on a cash and carry basis.

The College will not be liable for lost or damaged items unless reported within two days after the delivery date, and then for not more than the actual depreciated value of such articles as have been lost or damaged.

For the convenience of those students who wish to pay in advance for laundry and dry cleaning, a $40 coupon book may be purchased at the Laundry. This amount should meet the student's laundry and dry cleaning requirements for a semester. For the protection of purchasers, the coupons will be valid only when presented with the student's identification card. Unused coupons may be redeemed only at the end of a regular semester, a summer term, or when a student is properly discharged from school.

Married Student Housing. Rentals: $27, $33, $36, and $42 per month.

There are three housing projects operated by the College for married students.

The East Campus Apartments consist of 100 two-bedroom apartments located in 50 buildings constructed of brick veneer on concrete block. These apartments are equipped with electric stove, refrigerator, gas fired circulating heater, and hot water heater. The rental is $42 per month.

The Littlejohn Apartments consist of 50 two-bedroom units contained in 11 brick veneer on concrete block buildings. The monthly rental is $33 for an interior unit and $36 per month for an end apartment. Oil burning circulating and hot water heaters are installed in these apartments. The rental includes cost of water.

The Prefabs consist of 247 two-bedroom houses and are equipped with oil burning circulating and hot water heaters. The monthly rental rate is $27 and includes water. Students assigned these units should be prepared to repaint the interior at their expense.

Applications for married student housing should be made to the College Housing Office which maintains waiting lists and assigns units on the basis of date of application.

STUDENT HEALTH SERVICE

The Director of Student Health is in charge of the student health service at Clemson College.

The chief function of the College Physician is to substitute for the family physician while the student is away from home. It is to this end that our efforts are directed. Certain limitations however are necessary and are set forth below.

During clinic hours, students who desire may consult the College Physician. In case of necessity, students are allowed to consult the College Physician at any time.

The College Physician will not notify parents each time a student reports to the infirmary, but in the event of serious illness or injury, parents will be notified as soon as possible.

The medical fee paid by each student covers the services of the attending physician and nursing care for ordinary sicknesses and minor injuries occurring on the campus. It does not cover the fees of outside doctors called in for consultation, special nurses or for medical or surgical attention performed away from the College. When a student, in the opinion of the attending College physician, needs outside diagnostic, surgical, or medical care, the student is responsible for the expenses of such care. Expenses for necessary ambulance service is the responsibility of the student.

Clemson College does not assume any responsibility for the care of injuries resulting from accidents that happen away from the campus.

STUDENT ACCIDENT AND SICKNESS INSURANCE

The Student Government of Clemson College, with the full approval of the Administration, offers a plan of accident and sickness insurance to Clemson Students. The purpose of this insurance is not to replace existing health facilities of the College, but rather supplement them by insuring the student against major expenses accompanying an unexpected accident or illness.

Each year, prior to the beginning of the fall semester, complete information on this insurance plan will be sent to parents of students.

Any information received by students or their parents concerning student insurance or any other program offered students will have the signature of the appropriate college administrator if it has official endorsement.

FINANCIAL AIDS FOR UNDERGRADUATES

General. The Office of Student Aid is responsible for coordinating all types of financial assistance administered by the College, except honors and awards which are presented for special achievement and extracurricular grants-in-aid. The financial aids at Clemson consist of scholarships, student loans and part-time employment. Student wives interested in employment by Clemson College are encouraged to contact the Personnel Director.

Application Procedure. Starting in February eligible students currently attending Clemson may apply for any type of financial aid available for the coming school year. Only one application is usually required to be considered for available scholarships, work and other specified forms of assistance. Prospective students may secure further information and application forms from the Director of Student Aid. Action on requests for financial aid will be based primarily on scholastic and activity record, eligibility to attend Clemson, financial resources, and date application is received by the Student Aid Office. Eligible applicants will be considered for other scholarships that become available during the school year.

SCHOLARSHIPS FOR ENTERING FRESHMEN

These awards will be based on high school records, entrance examination scores, and other conditions specified by the selection committees. The College Board entrance examination must be taken and a completed application, along with a transcript of high school work through the first semester, must be mailed by March 1 in order to be considered for the coming school year.

Dow Chemical Co. Scholarship. A $500 award is available for a freshman majoring in Chemical Engineering. Awarded by Department.

Leon Lowenstein Foundation Scholarships. Two $2,400 awards are available annually for male freshmen who enroll in the School of Textiles, to be paid in equal installments during four years of satisfactory undergraduate study. Selection will be limited to applicants whose families have an income of $10,000 or less. Awarded by School.

R. F. Poole Alumni Scholarships. To encourage academic excellence, scholarships will be given to incoming freshmen with outstanding academic potential, and awards will be made to upperclassmen who have demonstrated academic superiority. Awarded by College.

Sears, Roebuck Agricultural Scholarships. Seven $300 awards are available annually for freshmen from South Carolina who enroll in the School of Agriculture. An additional sophomore award is given the student making the highest scholastic average as a freshman Sears, Roebuck scholar. Awarded by School.

George E. and Leila Giles Singleton Scholarship. Income from a fund donated by Mr. G. H. Singleton ('19) provides a $300 award annually for a farm boy who enrolls in Agriculture. Residents of Oconee, Pickens, and Anderson counties are eligible, with preference in that order. The award is for an entering freshman and may be renewed for an additional year. Awarded by School.

Smith-Douglass Agricultural Scholarships. A limited number of $750 awards are available for freshmen who enroll in the School of Agriculture, to be paid during four years of satisfactory undergraduate study. Applicants must be residents of one of the following South Carolina counties: Clarendon, Darlington, Dillon, Florence, Georgetown, Horry, Lee, Marion, Marlboro, Sumter, or Williamsburg. Awarded by School.

South Carolina Poultry Improvement Association Scholarships. A $300 award is available annually for a freshman majoring in Poultry Science. An additional $300 award is available each year for a sophomore, junior, or senior. Awarded by Department.

South Carolina Textile Manufacturers Association Scholarships. Two $2,000 awards (one from J. P. Stevens & Co., Inc.) are available annually for freshmen who enroll in the School of Textiles, to be paid in equal installments during four years of satisfactory undergraduate study. Awarded by School.

Southern Maid Scholarship. A 4-year tuition award is available for a male freshman from South Carolina who enrolls in Engineering, Industrial Management, or Physical Science. Selection is based on scholarship, leadership, character, and financial need, and is paid in equal installments during four years of satisfactory undergraduate study. Awarded by College.

Western Electric Fund Scholarships. Two awards consisting of tuition, fees, books, and supplies are available annually for freshmen who enroll in Electrical, Industrial, or Mechanical Engineering and may be renewed if satisfactory progress is made. Awarded by School.

SCHOLARSHIPS FOR UPPERCLASSMEN

Recipients for the following awards are usually selected by Clemson College in the spring for the coming school year. Further information and application forms may be secured from the Director of Student Aid. Completed applications must specify scholarships desired and be returned to the Student Aid Office in February for consideration by the appropriate committees.

Borden Agricultural Scholarship. A $300 award is given annually to the rising senior having the highest average grade on all college work, who has taken two or more Dairy subjects. Awarded by School.

Burlington Industries Foundation Scholarship. A $1,000 award is available annually to a rising junior majoring in Engineering or Textiles, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on leadership, scholarship, and financial need. Awarded by College.

Chemstrand Scholarship. A $500 award is available to a rising senior majoring in Textiles, who is considered a superior, deserving student. Awarded by School.

CIBA Scholarship. A $1,000 award is available annually to a rising junior male student majoring in Textile Chemistry to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on scholastic ability, financial need, personality, and leadership. Awarded by School.

Clemson Engineering Foundation Scholarships. Several $300 to $500 awards (amount based on applicant's need) are available to students majoring in Engineering. Selection is based on scholastic ability and financial need. Awarded by School.

Coburg Dairy Scholarship. A $1,000 award is available to a rising junior majoring in Dairy Science, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on scholarship, leadership, character, and financial need. Awarded by Department.

Ethyl Corporation Scholarship. A $500 award is available annually for a student majoring in Chemical Engineering. Selection is based on scholastic ability and financial need. Awarded by Department.

General Electric Company Scholarships. Several $300 to $500 awards (amount based on applicant's need) are available to students majoring in Engineering. Selection is based on scholastic ability and financial need. Awarded by School.

Ben and Kitty Gossett Scholarship. Income from their contribution provides one or more awards for textile students whose families are employed by the textile industry in South Carolina. Awarded by School.

Higgins Undergraduate Scholarships. Income from a fund donated by Mr. Higgins provides several awards for Engineering undergraduate students. Selection is based on scholarship and need. Awarded by School.

Interchemical Foundation Scholarship. A $1,000 award is available annually to a rising junior in Chemical Engineering, Chemistry, Physics, or Textile Chemistry, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on scholastic ability, personal traits, and financial need. Awarded by College.

David Jennings ('02) Memorial Scholarship. Income from a fund donated by members of his family provides one or more awards for deserving undergraduates, with preference for students majoring in Textiles. Awarded by School.

Keever Starch Scholarship. A $400 award is available annually to a worthy rising junior or senior majoring in Textiles. Awarded by School.

Sherwood E. Liles ('00) Engineering Scholarship. Income from a fund donated by his four sons provides a tuition award annually for a deserving engineering undergraduate. Awarded by School.

Owens-Corning Fiberglas Scholarships. Two $500 awards (one in Ceramics) are available annually to rising juniors or seniors majoring in Engineering or Textiles. Selection is based on scholarship ability, leadership qualities and financial need. Awarded by College.

Pauline Hanckel Dairy Scholarship. A $1,000 award provided by the Ladies Auxiliary of the South Carolina Dairy Association is available to a rising junior majoring in Dairy Science, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on scholarship, leadership, character and financial need. Awarded by Department.

Peace Fund Scholarship. A $500 award is available annually to a rising junior or senior. Selection is based on journalistic ability, scholastic achievement, and evidence of good character. Awarded by College.

Pennsylvania Glass Sand Scholarship. A tuition award is given annually to an outstanding rising senior majoring in Ceramic Engineering. Selection is based on scholastic achievement. Awarded by Department.

Ralston Purina Scholarship. A $500 award is given annually to a rising senior in the School of Agriculture. Selection is based on scholarship, leadership, character, extracurricular activities, sincerity of purpose in agriculture and financial need. Awarded by School.

J C. Rich ('13) Agricultural Scholarship. Income from a fund donated by his sister provides an annual award for a deserving male Agricultural undergraduate, with preference to a relative. Awarded by School.

Schlumberger Collegiate Award. A $500 scholarship is available annually to a rising junior or senior majoring in Physics, Electrical or Mechanical Engineering, who will take at least 12 credits in electrical engineering or electronics. Selection is based on academic standing and leadership ability. Awarded by College.

Seydel-Woolley & Company Scholarship. A $300 award is available annually to a rising junior or senior male student majoring in Textiles. Selection is based on scholastic ability, evidence of leadership potential to the southern textile industry and financial need. Awarded by School.

Sonoco Products Scholarships. Two $500 awards are available annually for deserving undergraduates majoring in Textiles. Awarded by School.

South Carolina Dairy Association Scholarship. A $1,000 award is available to a rising junior from South Carolina majoring in Dairy Science to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on scholarship, leadership, character, and financial need. Awarded by Department.

United States Rubber Foundation Scholarship. A $750 award is available annually to a rising junior planning a career in industry, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on proven scholastic ability and financial need. Awarded by College.

FINANCIAL AID FOR GRADUATE STUDY

Research and teaching assistantships are available to outstanding graduate students. Teaching assistantships are normally awarded for the academic year while research assistantships may be granted for periods of twelve months. Both are renewable. Stipends range from $1,400 to $3,200 and tuition is reduced for the regular semesters. Application forms for assistantships are obtainable from the Dean of the Graduate School or from department heads. Recipients of assistantships are selected by the respective academic departments.

Graduate fellowships and grants-in-aid are also available. Among them are the following:

The Alexander P. and Lydia Anderson Fellowship in Biological Sciences, including Bacteriology and Entomology.

Alumni Loyalty Fund Fellowships. These vary in amount and are awarded to students in all departments of study.

Celanese Fellowship. A $1,500 award plus tuition, fees, and research materials, to a student in Textile Chemistry.

Dow Corning Fellowship. A $1,500 award plus tuition, fees, and research supplies, to a student in Textile Chemistry.

Edward Orton, Jr., Fellowship. A $1,350 award plus supplies, to a student in Ceramic Engineering.

Foundation for Cotton Research and Education. A limited number of $2,500 awards, made to students in Agricultural Engineering, with concentration in Ginning Engineering. The recipients are selected by the Foundation (Box 9905, Memphis 12, Tenn.) with approval of the College.

Godfrey L. Cabot Fellowship. A $1,500 award ($2,400 if married), to a student in Ceramic Engineering.

Lead Industries Association Fellowship. A $2,400 award to a student in Ceramic Engineering.

National Defense Education Act Fellowships. Three-year fellowships paying from $1,800 to $2,200 with free tuition and fees. Inquiry about fields of study in which these awards are made should be directed to the Dean of the Graduate School.

National Science Foundation Fellowships. The Graduate School is participating in the National Science Foundation Cooperative fellowship program and also in the Foundation's summer fellowship program for graduate teaching assistants. Inquiry about these fellowships should be made early in the academic year and should be directed to the Dean of the Graduate School.

Scientific Soil Products Fellowships. Awards ranging from $200 to $1,200 are available to students in Agronomy.

Wade Stackhouse Loan Fund. Income from a fund donated by Dr. Wade Stackhouse in memory of his father is used to assist graduate students in all fields.

Warwick Chemical Foundation Fellowships. Income from a fund, donated in memory of Manfred Caranci, available annually for awards to students in Chemistry.

Zonolite Fellowship. A $1,500 award to a student in Ceramic Engineering.

Grants-in-aid to graduate students are sponsored by the Mead Corporation and the Alumni Loyalty Fund.

LOAN FUNDS AVAILABLE AT CLEMSON

Recipients of the following aid are usually restricted by course of study, scholastic standing, and place of residence. In most cases, those students nearest graduation receive first consideration when these limited funds are available. Applications for other types of financial aid may also be considered for loans after contacting the Student Aid Office. Personal interviews are usually required prior to approval.

Georgianna Camp Foundation Fund. A considerable sum has been donated in memory of Georgianna Camp by her husband and sons to assist worthy students who are seeking a college education, but need help in addition to their own efforts and available sources of income.

Clemson Architectural Foundation. Needy architectural students in the upper years of their curriculum who show professional promise will be considered for loans from the General Fund of the Foundation.

Clemson College Foundation. A limited sum from the General Fund is available for emergency student loans. Included are donations from the family and friends in memory of J. C. Littlejohn ('08), J. H. Woodward, Jr. ('35) and his father, "Uncle Jake" ('02).

Clemson Student Loans. A number of interested staff, faculty, alumni, families, and friends have made memorial donations to assist worthy students. Included are the following funds: *Anderson Kiwanis,* for juniors and seniors from Anderson County; *George Cherry,* for upperclassmen from Oconee County and Pendleton area; *William Wilson Finley,* for students living in counties traversed by the Southern or Blue Ridge Railways; *Forestry Department,* for deserving upperclassmen; *Henry B. Harper,* preferably Agriculture or Business students; *Richard Hughes Johnson,* prefer family approval; *R. F. Poole* ('16), by his classmates; *S. R. Rhodes,* for deserving white junior or senior Electrical Engineering students; and *Henry Thomas Stroud,* for worthy upperclassmen.

Daniel Memorial Loan Fund. Income from a sum donated by officers of the corporation in memory of James Flemming Daniel and Fred Adams Daniel may be lent to deserving students.

David Jennings Loan Fund. Income from a sum donated by David Jennings ('02) in memory of his parents and brother is used to aid worthy and deserving students, with preference given to students majoring in Textiles.

Reid-Baskin Fund. Income from an invested sum, and future donations in memory of Cecil L. Reid ('02) and John Bryce Baskin, will be used to aid deserving white students with preference for Newberry and York County residents.

Tile Council of America Fund. The Tile Council has made a grant to be used for interest free loans to outstanding and needy students in the lower years in the Architectural curriculum.

STUDENT PART-TIME EMPLOYMENT

Clemson College employs students for those positions wherein such part-time services can be utilized to an employment advantage. Clemson students in actual need of financial aid are usually given preference in filling positions, all other qualifications being equal. The Student Aid Office maintains application files on students desiring and needing part-time employment for the information of requesting departments and off-campus agencies interested in securing such help. Applications must be filed after registration each semester if part-time work is desired.

OTHER SOURCES OF FINANCIAL AID

The following types of assistance are not administered by Clemson College. When payment is to be made through the College, recipients should furnish supporting agencies with a schedule of payments due the Bursar. Such funds must be received by the Bursar on or before the due dates, or he should be notified in advance if other arrangements are to be considered.

National and State Agencies. Students should investigate such sources of financial aid as the following: Veterans Education, War Orphans Education, various cadet ROTC programs, income tax exemption, National Guard and Reserve Training programs, National Merit Scholarships, American Legion free tuition for deceased or totally disabled veterans' children, and grants for the handicapped through the State Department of Vocational Rehabilitation.

Other Agencies. Often help is received from grants or loans through Beta, FFA, and 4-H Club membership; local organizations of the Daughters of American Revolution, United Daughters of Confederacy, Civitan, Elks, Masons, Rotary, and similar groups; James F. Byrnes Foundation, Columbia, S. C.; Pickett and Hatcher Educational Fund, Columbus, Ga.; Methodist Student Loan Foundation, Nashville, Tenn.; Knights Templar Educational Foundation, Columbia, S. C.; and other religious, civic, welfare, or educational agencies.

Industry and Related Foundation Support. Students are often able to finance part of their education by summer employment or in some cases by alternate semesters at college and on jobs with establishments near their homes. Under certain conditions students may be eligible for loans or grants which are administered by corporate and local companies for the children of employees desiring a college education.

HONORS AND AWARDS

Recipients for the following awards are chosen for their special achievements by selection committees, and are announced at an annual Honors and Awards Day program in the spring or at other appropriate ceremonies during the year.

Air Force Association Medal. The Air Force Association of Washington, D. C., awards this medal annually to the outstanding senior AS IV cadet who has completed AFROTC summer camp and who has shown outstanding aptitude for both academic and military pursuits.

The Alpha Rho Chi Medal. The Alpha Rho Chi fraternity annually awards a gold medal to the graduate of the professional curriculum in Architecture who has shown the greatest leadership, service to his school, and who gives promise of professional merit.

Alpha Tau Alpha Scholarship Medal. An annual award is given to the senior in Agricultural Education having the highest scholastic record.

Alpha Zeta Award. An annual award is given to the sophomore in Agriculture having the highest grade-point ratio for the first three semesters.

American Association of Textile Chemists and Colorists Award. An annual award is given for the best work done in Textile Chemistry and Dyeing by a member of the graduating class.

American Association of Textile Technologists Award. An annual award is given to the graduate having the highest scholarship and all-round qualification for success in the textile industry.

American Association of University Women Award. The Clemson branch awards an engraved silver bowl annually to the girl graduating with the highest cumulative grade-point ratio.

American Chemical Society Award. An annual award is given to the outstanding senior in Chemistry who is a member of the student affiliate chapter of the American Chemical Society.

South Carolina Chapter, American Institute of Architects Award. The South Carolina Chapter of the American Institute of Architects each year awards a Certificate of Merit to the outstanding fourth-year students of Architecture in the Design Option and the Structural Option.

American Institute of Architects Medal. The National Organization of The American Institute of Architects awards each year a silver medal and a book to the outstanding graduate in the professional curriculum in Architecture at Clemson. An award is also presented to the runner-up.

American Institute of Chemical Engineers Award. The American Institute of Chemical Engineers sponsors an annual award to the junior majoring in Chemical Engineering who has attained the highest scholastic standing through the sophomore year.

American Institute of Electrical Engineers – Institute of Radio Engineers Scholastic Award. An annual award is given to the second semester junior or the first semester senior in Electrical Engineering having the highest scholastic record. Recipient must be a member of the AIEE-IRE Branch.

American Society of Agronomy Award. The American Society of Agronomy sponsors an annual award to an outstanding senior in Agronomy.

American Society of Civil Engineers Membership Award. The South Carolina Section of the American Society of Civil Engineers sponsors an annual award to the outstanding graduating senior in Civil Engineering.

The American Society of Mechanical Engineers Award. An annual award is given to a senior in Mechanical Engineering for his outstanding service in the School of Engineering.

Society of American Military Engineers Award. The Society of Military Engineers of Washington, D. C., sponsors an annual award to the most outstanding AFROTC cadet junior majoring in Engineering.

Society of American Military Engineers Award. The Society of American Military Engineers awards annually a gold medal with key replica to the twenty outstanding Army ROTC cadet juniors and to the twenty outstanding Army ROTC cadet seniors enrolled in the Army General Military Science ROTC Units in colleges and universities throughout the nation who are majoring in Engineering.

The Architectural Faculty Award. The School faculty annually makes an award to the first-year student in Architecture displaying outstanding promise.

Architects' Certificates of Merit. The South Carolina Chapter of the American Institute of Architects each year awards a certificate of merit to the outstanding senior Architect and senior Architectural Engineer.

Armed Forces Communication and Electronics Association Gold Medal. The Armed Forces Communications and Electronics Association of Washington, D. C., sponsors an annual award to the outstanding senior Army ROTC cadet majoring in Electrical Engineering.

The Armed Forces Communication and Electronics Association Gold Medal Honor Award. An annual award given to the outstanding AFROTC senior majoring in Electrical Engineering who has demonstrated outstanding qualities of military leadership, character, and definite aptitude for military service.

Arnold R. Boyd English Honor Key. Arnold R. Boyd, Class of 1914, donates this Honor Key annually to a student in the graduating class who makes an outstanding record in English during his college course.

Association of the United States Army ROTC Award. The Association of the United States Army, Washington, D. C., annually awards a medal to the junior ROTC cadet who is in the top 10 per cent in ROTC grades and in the top 25 per cent in general academic grades and who has contributed most, through leadership, to advancing the standing of the Army ROTC unit and the Military Science Department at Clemson College.

Best Drilled AFROTC Cadet. Awarded annually to the AFROTC cadet demonstrating the greatest efficiency in drill procedures. Award is adjudged near the end of each academic year with competition open to all AFROTC cadets.

Best Drilled AFROTC Cadets. Awarded annually to the AFROTC cadets in the junior, sophomore, and freshman classes, adjudged as the best drilled cadet within their respective class.

Best Squadron Commander Award. Awarded annually to the commander of the squadron adjudged as the best drilled squadron of the AFROTC Cadet Wing. Each member of this squadron is then awarded the ribbon, Member of the Best Drilled Squadron.

Block and Bridle Club Scholarship. A $50 award to be paid at the beginning of each regular semester is available to a junior in the Block and Bridle Club. Selection is based on scholastic ability, financial need and leadership in the club and other activities.

Chemical Rubber Company Achievement Award. An annual award is given by the Chemical Rubber Company to the student majoring in Chemistry, Textile Chemistry, or Chemical Engineering who made the highest grade in the first semester course in Chemistry.

Chemistry Faculty Award. An annual award is given to the sophomore majoring in Chemistry who maintained the highest scholastic record in Chemistry during his first two semesters of work.

Chicago Tribune Gold Medal Awards. These awards are given annually to the two senior AFROTC cadets who are most outstanding in military training, academic achievement, and motivation for flying training.

Chicago Tribune Gold Medal Awards. Awarded annually by the Chicago Tribune to the outstanding Army ROTC senior and junior. The awards are based on military achievement, scholastic attainment, and character.

Chicago Tribune Silver Medal Awards. These awards are given annually to the two junior AFROTC cadets who are most outstanding in military training, academic achievement and motivation for flying training.

Chicago Tribune Silver Medal Awards. Awarded annually by the Chicago Tribune to the outstanding Army ROTC sophomore and freshman. The awards are based on military achievement, scholastic attainment, and character.

Class of 1902 Awards. The members of the Class of 1902 have deposited with the Clemson College Foundation three funds of $2,000 each, in recognition of the distinguished teaching services of three professors who were on the faculty at that time, and in memory of those of the class who have passed on. The income from these funds is to be awarded annually as follows: *The Williston Wightman Klugh Award,* to a worthy, earnest undergraduate student of good moral code and personality who intends to make teaching his life work; *The Rudolph Edward Lee Award,* to a worthy undergraduate student in Architecture, upon the recommendation of the faculty of that School after consideration of the student's grades, extracurricular activities, and those qualities that go toward making a successful professional architect and *The Samuel Maner Martin Award,* to a worthy undergraduate student taking mathematics as a major subject.

Commander's Saber. Presented annually by the Professor of Military Science to the Army ROTC cadet officer considered to have contributed most to the advancement of the cadet brigade through leadership and devotion to duty.

Howard Carlisle Copeland Memorial Award. The family of Howard Carlisle Copeland, who gave his life during World War II, has set up a permanent memorial fund in his memory. Each year the interest from the fund shall be given to the boy who has made the greatest endeavor financially to stay in college.

Convair Cadet Award. An annual award is given to the most outstanding sophomore student of the basic AFROTC course who is qualified and motivated for flying training.

Danforth Fellowships. The Danforth Foundation of St. Louis awards two fellowships each year to agricultural students. One of these is given to an outstanding member of the junior class majoring in either Agricultural Economics, Agricultural Education, Animal Husbandry, Dairy Science or Poultry Science, and provides for a 2-week summer short course with Ralston Purina Company, and a 2-week stay at the American Youth Foundation Leadership Training Camp at Shelby, Michigan. The second award provides for a 2-week stay at the Leadership Camp at Shelby, Michigan, and is awarded to an outstanding freshman in the School of Agriculture.

Virginia Dare Award. An award of $25 given annually by the Virginia Dare Extract Company, Incorporated, to the senior majoring in Dairy Science and having the highest grade in Dairy 405, Dairy Manufactures.

Distinguished AFROTC Cadet Badge. An annual award is given by the Department of the Air Force to those individuals, designated by the Professor of Air Science, who possess outstanding qualities of leadership, high moral character, and definite aptitude for Air Force service. They must have attained an academic standing in the upper 25 per cent of their class and demonstrated leadership ability through their achievements while participating in recognized campus activities. Such recognition carries with it the opportunity for commissioning in the Regular Air Force.

Distinguished Military Student Badge. An annual award is given by the Department of the Army to those individuals, designated by the Professor of Military Science, who possess outstanding qualities of leadership, high moral character, and definite aptitude for Army service. They must have attained an academic standing in the upper half of their class and demonstrated leadership ability through their achievements while participating in recognized campus activities. Such recognition carries with it the opportunity for commissioning in the Regular Army.

Samuel B. Earle Award. An award established by Clemson Alumni in honor of Dean Samuel B. Earle, who ended 48 years of service to Clemson College in July, 1950, is given annually to an outstanding senior in the School of Engineering.

Faculty Scholarship Award. An annual award is given to the member of the graduating class with the highest academic achievement by the academic faculty. This award consists of a certificate and a gold medal.

Forestry Award. The income from a fund donated to the College is presented annually to the senior in Forestry with the highest academic record.

Ben H. Gardener Award. The income from a fund donated to the College by the father and son is given annually to some worthy and needy student in the School of Engineering.

Industrial Management Faculty Award. An award is given annually to the member of the graduating class majoring in Industrial Management who has attained the highest academic standing.

Industrial Management Merit Award. An award is provided by the Neely and Gibson Coal Sales Company (William J. Neely, '32, and Harry H. Gibson, '32) for an Industrial Management major who has demonstrated through outstanding academic performance and excellent personal characteristics sufficient potential to enable him to assume significant managerial responsibilities in modern industry.

James Lynah Merit Awards. Income for several awards is derived from a fund established by Mr. James Lynah, in memory of distinguished professors who were teaching at Clemson when the Class of 1902 were undergraduates, as follows: *The Charles Manning Furman Prize* in English, *The Mark Bernard Hardin Prize* in Chemistry, *The William Shannon Morrison Prize* in History, *The Charles Carter Newman Prize* in Horticulture, *The Walter Merritt Riggs Prize* in Electrical Engineering and *The Augustus G. Shanklin Prize* in ROTC, Air or Military Science and Tactics. These awards are made to students having a high scholastic rating and possessing outstanding qualities of character and leadership.

Clark Lindsay McCaslan Award. A sum of money has been deposited with the College to establish a fund in memory of Clark

Lindsay McCaslan, Class of 1908, and a pioneer in Agricultural Engineering. The income from the fund shall be given annually to the student in the Department of Agricultural Engineering who in the opinion of the faculty shall be deemed to be the most deserving.

Marksmanship Award. Awarded annually to the AFROTC cadet achieving the highest scores among the AFROTC cadets of the College Rifle Team.

Marksmanship Awards. Medals are annually presented to those members of the Army ROTC Rifle Team achieving highest position average scores.

Dr. Ralph Mershon Memorial Award. The Secretary of the Army will present annually a $250 prize to the outstanding Distinguished Military Graduate of a senior division Army ROTC university or college who is commissioned in the Regular Army.

The Minaret Award. The Minaret Society each year presents a Certificate to the outstanding second year student in the professional curriculum in Architecture. Scholarship, leadership and qualities of character will be considered.

National Association of Cotton Manufacturers Medal. For several years, medals have been awarded to the outstanding graduates annually in Textile Engineering, both in February and in June.

National Defense Transportation Association Award. The National Defense Transportation Association will award annually the NDTA Medal to the twenty outstanding senior students enrolled in General Military Science Army ROTC units throughout the nation.

Neatest Appearing AFROTC Cadet. Awarded annually to the neatest appearing cadet of the AFROTC Cadet Wing.

Thomas Newcomen Award in Material History. The Newcomen Society in North America gives an annual award for the best research paper presented in the field of Material History.

Norris Medal. The following is from the will of the Hon. D. K. Norris, a life trustee of Clemson, who died in 1905:

"I give $500.00 face value, Norris Cotton Mill stock . . . on condition the dividend thereon shall be applied annually to the purchase of a gold medal, to be known as the 'Norris Medal', to be awarded to the student of Clemson meriting the same at graduation, under such rules and conditions as may be prescribed by the said

Board of Trustees, and which medal shall have engraved on it 'Honor habet onus' (Honor brings responsibility)."

American Ordnance Association Gold Scholarship Key. The American Ordnance Association, Washington, D. C., sponsors annually an award to the senior Army ROTC cadet with the most ability in the ordnance field to be commissioned to the Ordnance Corps.

Willie N. and Joe Wise Paget Scholarship. The income from a fund donated to the College by members of their family is used annually to aid a deserving student from Saluda County.

Phi Eta Sigma Mathematics Award. An annual award is given to a freshman scoring highest on a competitive examination in mathematics.

Phi Eta Sigma Scholarship Medal. An annual award is given to the senior having the highest scholastic record.

Phi Kappa Phi Award. An annual award is given to the junior having the highest scholastic record.

Phi Psi Award. This award is made annually by the National Honor Council of the Phi Psi Textile Fraternity to the textile graduate who has attained the highest scholastic record in textile courses.

Quartermaster Association Awards. The Quartermaster Association annually awards a medal to the ten outstanding junior students and a scholastic key to the ten outstanding senior students enrolled in the Army General Military Science ROTC program in colleges and universities throughout the nation. Students must be enrolled in courses including as a major item of curriculum at least one educational area of particular interest to the Quartermaster Corps.

Republic Aviation Award. An annual award is given by Republic Aviation Corporation to the junior AFROTC cadet presenting an effective theme on Air Power.

Reserve Officers Association Award. Awarded annually to an AFROTC junior and senior cadet, based on scholastic and Air Science grades, and leadership qualities.

Reserve Officers Association Medal. The South Carolina Department of the Reserve Officers Association sponsors an annual award to the outstanding senior Army ROTC Cadet.

Sigma Pi Sigma Prize. An annual award is given to the outstanding senior in the Physics Department.

Sigma Tau Epsilon Membership Award. An annual award is given to the sophomore majoring in the School of Arts and Sciences and having the highest scholastic record.

R. W. Simpson Medal. A medal designated as the "R. W. Simpson Medal" is awarded annually to the best drilled cadet in the freshman, sophomore, or junior class.

The Solite Award. The Southern Lightweight Aggregate Company annually makes a grant of $1,000 to the Clemson Architectural Foundation, a portion of which is used for prizes for those fifth-year professional theses adjudged to be outstanding.

Sons of the American Revolution Award. An annual award is given to a freshman AFROTC cadet who is outstanding in academic courses, Air Science courses, and leadership characteristics.

The South Carolina Masonry Association Award. The South Carolina Masonry Association annually makes a grant of $600 to the Clemson Architectural Foundation, a portion of which is used for awards in an intermediate-level architectural design problem.

South Carolina Society of Sons of American Revolution Medal. An annual award is given to an Army ROTC cadet who exhibits a high degree of merit with respect to leadership, soldierly bearing and excellence in theoretical courses of study.

The Southern Brick and Tile Award. The Southern Brick and Tile Association annually makes a grant of $100 for prizes awarded in an advanced-level architectural design problem.

Algernon Sydney Sullivan Medallion. A valuable and artistic memorial, established by the Southern Society of New York in honor of its first president, is awarded each year by the College to a member of the graduating class and to one other person who has some interest in, association with, or relation to the institution, official or otherwise, of a nature as to make this form of recognition appropriate. The recipients of this award shall be chosen in recognition of their influence for good, their excellence in maintaining high ideals of living, their spiritual qualities, and their generous and disinterested service to others.

Superior Cadet Ribbon Awards. The Department of the Army awards annually Superior Cadet Ribbons to those Army ROTC students in each academic year (class) adjudged the most outstanding in their class.

The Taylor-Colquitt Award. The Taylor-Colquitt Co., of Spartanburg, South Carolina, annually makes a grant of $500 to the

Clemson Architectural Foundation, $250 of which is used as an award for an outstanding upperclassman in Architecture showing qualities of professional leadership.

Textile Veterans Association Award. This annual award is given to a member of the graduating class who has the potential to make an outstanding contribution to the textile industry in future years.

Third Army Certificate of Meritorious Leadership Achievement. An award is given annually by the Commanding General of Third Army to the outstanding cadet on the basis of leadership development throughout the ROTC career.

Tau Beta Pi Scholastic Award. An annual award is given to the sophomore in Engineering having the highest scholastic record.

Trustees' Medal. The Board of Trustees has provided for a gold medal to be awarded annually to the best speaker in the student body.

Wall Street Journal Student Achievement Awards. These annual awards are given to the most outstanding senior with a concentration in Agricultural Economics, School of Agriculture, and Economics in the School of Arts and Sciences.

PLACEMENT SERVICES

While the College is glad to assist all who ask for help in securing employment, there is no obligation to secure positions for those who complete any of the courses of study.

The Placement Office coordinates and plans campus interview visits requested by representatives seeking graduates for positions with business, industry, and government. It maintains current files of reported job opportunities and of alumni who wish to learn of available openings.

A Placement Bulletin is prepared periodically for distribution on the campus and mailing to alumni upon request, to announce scheduled campus interviews and to list specific openings which may be of interest to students and alumni.

BUILDINGS AND GROUNDS

Today, as throughout Clemson's history, the centerpiece of this picturesque campus is the Tillman Hall clock tower, the symbol of scientific education, research and public service in South Carolina. Honoring the memory of colorful Governor "Pitchfork Ben" Tillman, this building houses administrative offices on the two lower floors and classrooms upstairs.

The Clemson campus proper consists of 440 acres and represents an investment approximating 28 million dollars in academic buildings, student housing and service facilities. Basically, this is the plantation that Thomas Green Clemson willed to South Carolina for the establishment of the College. Fort Hill, the former home of both Mr. Clemson and his illustrious father-in-law, John C. Calhoun, is preserved in the center of the campus as a national shrine.

Beyond the main campus, stretching into Oconee, Pickens, and Anderson Counties, are another 23,000 acres of farm and agricultural and engineering research lands. Over the State are 4,000 more acres devoted to Agricultural Experiment Station research and 4-H Club work.

Teaching and laboratory facilities of the School of Agriculture are housed in the several buildings of the Agricultural Complex. Another grouping serves the School of Engineering. Among these are Olin Hall for Ceramic Engineering and Earle Hall for Chemical Engineering. These two buildings and the excellent equipment they house represent gifts from the Olin Foundation totaling nearly two million dollars.

Sirrine Hall is the home of the School of Textiles and within it are located government and industrial cotton fiber testing laboratories. The School of Architecture is located in a modern, well-equipped building recently completed and a third grouping of classrooms and laboratories serves the School of Arts and Sciences.

The dormitories will accommodate a total of 3,188 students; one uniquely designed structure houses 2,200. Individual units or apartments accommodate 400 married students.

Student welfare facilities for the more than 4,000 young men and women on the campus include the Library, Infirmary, YMCA, Laundry, Dining Room, Field House, Stadium, and service center for water, light and heat.

The college-owned Clemson House and adjacent Clemson Homes, provide excellent community hotel accommodation and permanent housing for staff members.

RESERVE OFFICERS' TRAINING CORPS (ROTC)

The Department of the Air Force and the Department of the Army both maintain Senior Division units of the ROTC at Clemson.

The mission of the Reserve Officers' Training Corps is to produce junior officers having qualities of leadership and attributes essential to their progress and continued development as commissioned officers in either the Air Force or the Army of the United States.

To implement this mission, a 4-year program is offered consisting of the basic course for freshmen and sophomores and the advanced course for juniors and seniors.

The basic course, consisting of the first two years of Air or Military Science, is a requirement in every undergraduate curriculum of the College and as such must be taken the same as other required freshman and sophomore courses and completed for graduation. Entering students are permitted to enroll in the service of their choice.

Students enrolling in college for the first time and transfer students not otherwise excused are expected to register for and attend scheduled military classes (Basic Course ROTC) in the first and succeeding semesters of residence until military training requirements have been met.

The following students are exempt from the requirement of the basic ROTC course but must complete for graduation the equivalent credit hours of approved electives:

a. Students not physically and scholastically qualified for basic ROTC.
b. Students who have attained age of 21 at time of entrance.
c. Transfer students entering with 30 or more semester credit hours acceptable toward graduation at Clemson in their respective curriculums.
d. Students who are married at time of entrance.
e. Women students.
f. Students who are not citizens of the United States.

Students who have had at least six months of active military service are exempt from the basic ROTC course. However, veteran students who intend to apply for advanced ROTC should consult with the Head of the Military Science or Air Science Department with reference to placement credit for previous service.

Physically qualified students who are exempt from the basic course for other reasons may elect to take the freshman and sophomore courses in Air or Military Science upon approval of the Head of the Air or Military Science Department concerned.

Good moral character and the signing of a loyalty certificate are prerequisites for enrollment and continuance in the ROTC.

Students who complete the prescribed ROTC courses and receive a bachelor's degree may be awarded commissions in either the Air Force or Army Reserve. Each student at present receives 1 credit hour for each semester of the basic course and 3 credit hours for each semester of advanced ROTC successfully completed, all of which are counted as approved credits in the curriculum toward a degree. However, commencing with the rising junior class of 1960 and all lower classes, only 6 credit hours for advanced ROTC will be applicable toward a degree.

Members of the advanced course are required to attend one summer camp between the junior and senior years. All students attending camp are paid at the rate of $78 per month, reimbursed for travel at the rate of $0.05 per mile for the round trip, and are fed, housed, uniformed, and receive medical attention at government expense while at camp. The Air Force encampment is normally of 4 weeks duration and the Army encampment is normally of 6 weeks duration.

The statutory requirements for enrollment in the ROTC are that the student must be a citizen of the United States, physically qualified by standards as prescribed by the Departments of Air Force and Army and accepted by the institution as a regularly enrolled student.

Currently, uniforms are provided basic ROTC students. A deposit of $25 is required from each student. This is refundable when the uniform is turned in, provided there is no damage to the uniform other than normal wear.

Each advanced ROTC student is credited with $100, paid to the College, commutation in lieu of uniform; this is used by the College to purchase officer-type uniforms for use during the junior and senior years. The uniform becomes the property of the student when he receives a commission. Advanced ROTC students also receive commutation in lieu of subsistence at the rate of $0.90 per day for not more than 595 days. Veterans are paid these allowances in addition to the benefits authorized by the Veterans Readjustment Assistance Act if they are enrolled in the ROTC courses. In addition to all of the above benefits, provisions have been made to defer from Selective Service induction those advanced ROTC students who satisfactorily participate in the program. A deferment agreement permits the student to complete his course of instruction, but requires that he accept a commission, if offered, to serve on active duty as an officer for a period depending on the service in which he is commissioned, and to satisfy the regular or reserve requirements as prescribed by law.

Rifle Team. The College rifle team consists of members of the Air and Army ROTC units and civilian members of the student body. In addition, there is a separate Army ROTC team. The teams compete in the Hearst Matches and the National Intercollegiate Matches. Both postal and shoulder matches are fired each year with other colleges and universities. The firing is conducted with modern smallbore target rifles on an indoor range.

AIR FORCE ROTC

The mission of the Air Force ROTC is to develop in selected college students, through a permanent program of instruction at designated civilian educational institutions, those qualities of leadership and other attributes essential to their progressive advancement to positions of increasing responsibility as commissioned officers in the United States Air Force.

The purpose and specific objectives of the program are:

(1) To develop in selected cadets, through a sound education and training program, the initial motivation to serve as career officers in the United States Air Force.

(2) To develop in cadets by precept, example, and participation the attributes of character, personality, and attitudes essential for leadership.

(3) To develop in cadets an interest in the Air Force and an understanding of its mission, organization, operations, problems, and techniques.

(4) To provide that military education and training which will prepare cadets to discharge the duties and responsibilities required of them as Air Force officers.

(5) To select and motivate cadets for career fields as specifically required by the United States Air Force.

The Air Force ROTC program at Clemson Agricultural College consists of the basic and advanced courses. Both courses are generalized in nature and are designed to give the student a broad picture of the Air Force organization and mission and to stimulate a growing desire on the part of the student to enter the Air Force. The basic course consists of 2 years with 60 hours of classroom instruction and 30 hours leadership laboratory each year.

During the second year of the basic course a cadet may apply for admission into the two-year advanced course. The advanced course consists of 150 hours of instruction each year, 120 hours classroom instruction and 30 hours leadership laboratory, and 232 hours of summer training instruction at an Air Force base. If accepted into the advanced AFROTC course, the cadet will be placed under contract and after satisfactory completion, he will be commissioned a Second Lieutenant, United States Air Force Reserve. He will be called to active duty for a period established by the contract and category to which he agreed and within the requirements and existing procedure of the Air Force.

Cadets of this detachment are permitted to make orientation flights in USAF aircraft. These flights are usually in the local area, but field trips to other AF bases are accomplished from time to time. This enables cadets to see bases from all aspects of daily operation.

The entrance requirements into the advanced program are directly governed by the officer manning requirements of the Air Force. To become eligible for the advanced program a cadet must: (1) Make application; (2) Pass the Air Force Officer's Qualification Test administered in December of each year; (3) Pass the Air Force Physical Examination; (4) Possess leadership ability and good moral character; (5) Be classified as an academic junior and possess a minimum cumulative grade-point ratio of 1.8. Initial selection of students accepted by the advanced program, based on the quota allocated by higher headquarters, is made during the summer prior to their junior year. Final selection is announced on registration day of their junior year.

Cadets accepted for the advanced program are identified in one of six specific categories:

Category IP—Pilot Training: To be eligible for this category an advanced cadet must meet the required physical standards, measured aptitude and interest qualifications, and sign a 5-year Career Reserve Statement.

Category IN—Navigator Training: To be eligible for this category an advanced cadet must meet the required physical standards, measured aptitude and interest qualifications, and sign a 5-year Career Reserve Statement.

Category II—(Non-Flying) Technical Fields: This category consists of cadets enrolled in college programs leading to baccalaureate degrees, with majors in prescribed engineering and scientific fields of study, who meet physical standards for an Air Force commission and are selected for the advanced course. Cadets commissioned in this category are obligated for four years active duty.

Category III—(Non-Flying) Non-Technical Fields: This category consists of cadets enrolled in college programs leading to a baccalaureate degree, with majors in other than engineering and scientific fields of study and are identified as possessing outstanding officer potential, and above average academically. Cadets commissioned in this category are obligated for four years active duty.

Category IV—Prior Service: This category consists of service exempt cadets who have served on active duty for training and satisfied the requirements of selective service, awarded a degree and have been individually approved by higher headquarters. Cadets commissioned in this category are obligated for three years active duty.

Category V—Non-Flying: Cadets are not enrolled in this category. This category is restricted to cadets originally enrolled in Category IP or IN who later become physically disqualified for flying training. Cadets commissioned in this category are obligated for four years active duty.

Cadets in the advanced course are entitled to subsistence at the rate of $0.90 per day for approximately 600 days. Subsistence allowance is paid for the following periods: (1) From first day of fall semester to day before first day of summer training, including vacation periods; (2) From day after final day of summer training to and including day of commissioning. Payrolls are submitted quarterly and checks are normally received by cadets during last week of January, April, July, and October.

Cadets enrolled in the advanced course will attend a four-week training period at an Air Force base between their junior and senior years. This period is designed to give them an idea of how a typical air base functions, and to provide them with an opportunity to fly in USAF aircraft. In addition to several hours of orientation flying, they will visit and train on the job in such base activities as headquarters sections, maintenance shops, base operations, and others. Summer training curriculum is designed to provide training and actual experience which will prepare them to assume cadet officer positions in their senior year.

Quarters, meals, uniforms, and medical care will be provided free. Cadets are provided rail or bus transportation to and from the air base. If cadets drive their car, they are paid mileage at the rate of $0.05 per mile from their official residence to the base and return. In addition, they will receive $72 for the 4-week training period.

Those cadets who have demonstrated outstanding leadership qualities and are in the upper one-third of their class academically may be designated tentatively as Distinguished AFROTC Cadets at the end of the junior year. In September of the senior year, those tentatively designated Distinguished Cadets who achieve an outstanding summer training report, may be designated officially as Distinguished AFROTC Cadets. These designations are made upon recommendation by a board of Air Force officers and the College Director of Admissions and Registration and are concurred in by the President of the College and Head of the Air Science Department.

Those cadets officially designated as Distinguished AFROTC Cadets may apply for a Regular Air Force commission between 1 October and 31 October. The cadet is competing with all other Distinguished AFROTC Cadets, nationwide, for a Regular Air Force commission. If selected for appointment in the Regular Air Force, Distinguished AFROTC Cadets must be designated as a Distinguished AFROTC Graduate upon graduation. Those Distinguished Cadets who continue to maintain outstanding progress in the senior year are designated as Distinguished Graduates.

All AFROTC graduates are eligible to apply for a Regular Air Force commission after 18 months active duty.

ARMY ROTC

The Army ROTC instruction stresses an academic college level program in content, scope and intensity. Emphasis is placed on the development of the student's leadership potential. Thus, a student absorbs many qualities of leadership, bearing, discipline, judgment, and sportsmanship which will be a distinct asset in any profession that he may choose, military or civilian.

The general Military Science program is conducted at Clemson; this program qualifies the student for a regular or reserve commission in any of the arms or services of the United States Army. The student who successfully completes the Army ROTC, subject to his desires and the needs of the service, normally will receive a commission in a branch closely allied to his major field of academic study (i. e., a graduate in Civil Engineering would normally be commissioned in the Corps of Engineers).

During the fourth year of general military instruction, students will have the opportunity to indicate their preference for assignment to a particular branch. Final assignment must remain with the Department of the Army and will be dependent upon such factors as the student's major academic course, class standing, qualities of leadership, the requirements and existing vacancies in the various branches of the Army, in addition to the student's choice.

The student who receives his commission through Army ROTC is appointed in the Army Reserve as a Second Lieutenant and called to active duty for 2 years or to active duty for training for 6 months. During his senior year the student may indicate his preference for either period; the final decision is based on the student's desire and the needs of the service. A period of active duty for training requires that the student retain his reserve commission and remain in the Ready Reserve until the eighth anniversary of the receipt of his commission. Graduates of the program who enter active duty for 2 years will acquire a 6-year military obligation, only 3 of which would be in the Ready Reserve.

Outstanding Army ROTC cadets who attain grades in the upper half of the class in academic subjects and the upper third in Military Science subjects during their junior year and who possess outstanding qualities of leadership, character and aptitude for military service may, with the approval of the College President, be designated as Distinguished Military Students by the Head of the Military Science Department. Those who maintain this outstanding record during their senior year may be designated Distinguished Military Graduates. A Distinguished Military Graduate may apply for appointment as a Second Lieutenant in the Regular Army.

Based on personal choice (provided academic and physical requirements are met), a student who completes the basic course may choose to enter the advanced course which is offered during his junior and senior years.

Veterans with satisfactory service may receive credit for the basic ROTC Course.

The requirements for formal enrollment in the advanced ROTC program are as follows:

Junior Year. Must have completed all previous Military Science courses successfully, have acquired a grade of 42 or higher on a general intelligence test which is administered during the sophomore year, be physically qualified and must have acquired a minimum of 68 credits with the cumulative grade-point ratio required for graduation. (This grade-point ratio is the equivalent of a low C average in all academic work.) The number of credits required for participation in the advanced course complements the academic requirements of the school and insures that the cadet receives his commission and his diploma simultaneously after four years of work.

Senior Year. Must have completed all previous Military Science courses successfully and have attended summer camp except under certain circumstances; must be an academic senior, and have the cumulative grade-point ratio required for graduation.

Exceptions to the above general rules may be made by the Head of the Military Science Department.

Participation in the ROTC program in any status does not preclude the possibility of belonging to an organized Reserve Unit or to the National Guard. Membership in such units counts toward longevity for pay purposes, and definitely benefits over-all knowledge in military subjects. Students desiring enrollment in the advanced Army ROTC program must, however, transfer their reserve affiliation from active to inactive (Control Group) status or else request dual status from their respective units.

RELIGIOUS LIFE

There are six active churches at Clemson—Baptist, Methodist, Presbyterian, Lutheran, Episcopal, and Roman Catholic. Each of these churches has a program especially for college students. Three of them have full-time student workers in addition to the work of the minister.

Regular courses in Religion are offered for credit as electives. These courses are taught by ministers of the local churches. For information regarding these courses, see the description of courses.

The Clemson Y. M. C. A. has supervision of voluntary religious activities of the students, and contributes to the religious, social and physical life of the college community. The Y. M. C. A. building provides a meeting place for denominational groups not having a church at Clemson, as well as for many inter-denominational and civic groups.

The Student Center in the new dormitory contains a student chapel with a Hammond organ.

HISTORICAL STATEMENT

In 1889 the General Assembly of South Carolina accepted the bequest of Thomas G. Clemson, which set aside the bulk of the Clemson estate for the founding of a scientific and technical college. The institution was also established under the Morrill Land-Grant Act passed by the National Congress in 1862. Clemson College, therefore, is the Agricultural and Mechanical College of South Carolina and is a member of the national system of Land-Grant Colleges and Universities.

The nature of the institution is outlined in Mr. Clemson's will and its acceptance by the legislature.

The will in part reads:

> Feeling a great sympathy for the farmers of this State, and the difficulties with which they have to contend in their efforts to establish the business of agriculture upon a proper basis, and believing that there can be no permanent improvement in agriculture without a knowledge of those sciences which pertain particularly thereto, I have determined to devote the bulk of my property to the establishment of an Agricultural College upon the Fort Hill Place. My purpose is to establish an Agricultural College which will afford useful information to the farmers and mechanics; therefore it should afford thorough instruction in agriculture and the natural sciences connected therewith; it should combine, if practicable, physical with intellectual education; and should be a high seminary of learning in which the graduate of the common schools can commence, pursue and finish a course of studies terminating in thorough theoretic and practical instruction in those sciences and arts which bear directly upon agriculture . . . but to always bear in mind that the benefits herein sought to be bestowed are intended to benefit agriculture and mechanical industries. . . . I trust I do not exaggerate the importance of such an institution for developing the material resources of the State, by affording its youth the advantages of scientific culture.
>
> The desire to establish such a school or college, as I have provided for in my said last will and testament, has existed with me for many years past, and many years ago I determined to devote the bulk of my property to the establishment of an Agricultural School or College. To accomplish this purpose is now the one great desire of my life.

This will gave all that part of the Fort Hill Estate inherited by Mrs. Clemson from her mother and the bulk of Mr. Clemson's other real and personal property. The latter amounted to a sum, which, considering the purchasing power at the time, probably has been only a few times exceeded in a public benefaction in South Carolina.

A Board of Trustees of seven members was provided for: R. W. Simpson, D. K. Norris, M. L. Donaldson, R. E. Bowen, B. R. Tillman, J. E. Wannamaker, and J. E. Bradley, who with those chosen by the General Assembly, should constitute a governing board in case the State accepted the bequest; but, who, in case the State declined the bequest, should alone constitute a governing board for a private institution.

These seven trustees, along with other friends of the movement, and the agricultural groups in the State developed and organized a public opinion favorable to the plan.

In November, 1889, the General Assembly of South Carolina accepted the terms of the will and, following the decision of the United States Supreme Court to uphold the will, the State of South

Carolina and the full Board of Trustees proceeded to convert the dream of Thomas G. Clemson into the reality of Clemson College.

The College was formally opened in July, 1893, with an enrollment of 446 students. The first graduating exercises were held in December, 1896, with a graduating class numbering 37—15 in the agricultural courses and 22 in the engineering courses.

LOCATION

The College is located on the Fort Hill homestead of John C. Calhoun, in the foothills of the Blue Ridge Mountains. It has an elevation of 800 feet above sea level and commands an excellent view of the mountains to the north and west, some of which attain an altitude of over 5,000 feet.

The College is located at Clemson, S. C., on the main line of the Southern Railway. U. S. Highways numbers 76 and 123 pass through Clemson, and daily bus service at regular intervals is available.

ALUMNI RELATIONS

The office of alumni relations coordinates all functions and services of the alumni office. The director of alumni relations is secretary of the Clemson Alumni Association and the Clemson Foundation through election by the governing boards of these two organizations.

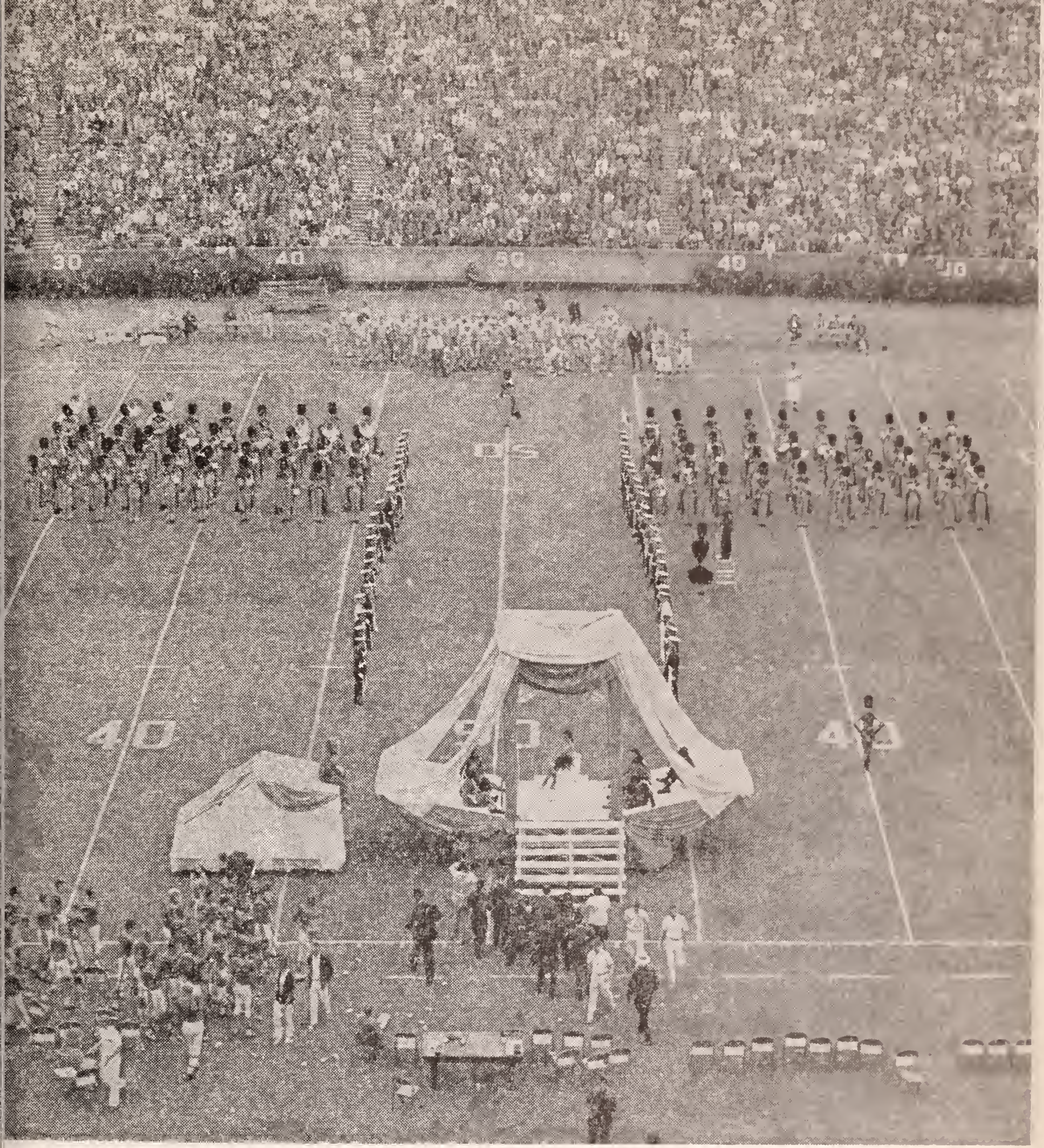
Accurate records of addresses and information concerning alumni are being compiled by this office which also publishes a magazine and newsletter for distribution to the alumni.

The purpose of the Alumni Association is to serve the College and its alumni in every possible way. The Association holds its regular annual meeting at the College each June. Active membership is made up of former Clemson students who participate in the Clemson Alumni Loyalty Fund for the purpose of providing supplementary financial aid to the educational programs of the College.

The Clemson College Foundation was founded by interested members of the Alumni Association to raise an endowment to be used for the benefit of the College, its students, faculty and alumni. Trustees of the Foundation are elected by the Association.

THE SIRRINE FOUNDATION

Funds in this foundation have been contributed by the textile companies in the State and now total one million dollars. Income from this fund is used exclusively for the School of Textiles at Clemson, primarily to improve the teaching staff. Under the present plan, the textile faculty is benefitting in three ways: (1) For all faculty members retiring with the rank of associate or full professor, the retirement payments by the State are enhanced to 85 per cent of the member's full salary (to 100 per cent for heads of departments). (2) The foundation contributes half of the salary for an extra professor in each of three departments. The additional faculty members have research projects but take classes for short periods to enable the regular teachers to visit mills, attend conferences, etc. (3) The foundation greatly increases the travel funds to aid the visitation and study of the mills in the State. (4) It sponsors the branch library in the School of Textiles.



PART III

Student Life and Activities

CLUBS AND SOCIETIES

Honor Fraternities. Honor scholarship organizations, including Tau Beta Pi, Sigma Tau Epsilon, Phi Psi, Alpha Zeta, Alpha Tau Alpha, Iota Lambda Sigma, Kappa Phi Kappa, Sigma Xi, Sigma Pi Sigma, and the Minaret Club, give recognition to superior work done by Engineering, Arts and Sciences, Textile, Agricultural, Agricultural Education, Industrial Education, Education, Physics, and Architecture students respectively.

The Phi Kappa Phi, honor society, and the Phi Eta Sigma fraternity both have chapters at Clemson. The former is an all-college honor organization composed of seniors and second semester juniors. The latter is a freshman organization with members selected from students who attain a high scholastic standing during the first semester of the freshman year.

Engineering Societies. Outstanding students majoring in engineering courses are selected for membership in the Student Chapter of the American Institute of Electrical Engineers-Institute of Radio Engineers, American Society of Mechanical Engineers, American Society of Civil Engineers, American Institute of Chemical Engineers, American Ceramic Society, American Society of Agricultural Engineers, the Society of American Military Engineers and the Society of Automotive Engineers.

The National Textile Manufacturing Society. Students majoring in Textile Management and Textile Science courses are selected for membership. The purpose is to bring about a more intimate relationship between the textile industry and the undergraduates of the textile school.

Music Activities. The Clemson College Glee Club is open to Clemson students who are interested in formal singing activities. A simple voice classification is necessary for membership. Previous choral experience and the ability to read music, while desirable, are not a requirement for membership.

Throughout the academic year the Glee Club performs on the Clemson campus for such activities as Religious Emphasis Week, certain student-wide events, and many state and regional organizations which hold important conventions at Clemson. The club is often invited to nearby localities to sing for civic and other organizations.

Student Clubs. Students majoring in various courses of instruction have organized clubs. Among such clubs are the Student Chapter of American Farm Economic Association, Block and Bridle Club (Animal Husbandry), Collegiate Chapter, Future Farmers of America (Agricultural Education), Dairy Club, Eta Zeta (Entomology and Zoology), Forestry Club, History Club, Horticulture Club, Iota Epsilon (Industrial Education), Kappa Alpha Sigma (Agronomy Club), Poultry Science Club, and the Pre-Med Club, Gamma Alpha Mu recognizes superior journalistic services rendered by students.

The Blue Key, a national fraternity based upon leadership, has a chapter at Clemson, as does Alpha Phi Omega, a national fraternity for former Boy Scouts. The Tiger Brotherhood is a local organization at Clemson which stresses the qualities of leadership.

The Y. M. C. A. and the Clemson churches are recognized through the Y. M. C. A. Cabinet and the Class Councils and organizations such as the Baptist Student Union, Brandeis Club, Canterbury Club, Lutheran Student Association, Newman Club, Presbyterian Students Association and Wesley Foundation.

Military Activities and Clubs. The military activities of students are recognized through Scabbard and Blade, a national military honor fraternity, and the Pershing Rifles, a national honorary military organization. Air Force students are recognized through The Arnold Air Society, a national Air Force honorary society. Exhibitions of fancy drill are presented by the Pershing Rifles at football games, parades and other celebrations and ceremonies. During the academic years 1955-1956 and 1956-1957, the Pershing Rifles were adjudged National Drill Champions in competition with colleges and universities throughout the country at the annual Cherry Blossom Festival, Washington, D. C. Freshmen may be selected for membership in the Freshman Platoon.

Athletic. The Block "C" Club includes students who have earned letters in major sports.

Publications. Publications at Clemson are handled by clubs and organizations which carry specific responsibility for such publications. The *Blue Key Directory* is published by The Blue Key fraternity, *The Agrarian,* by the agriculture clubs, *The Bobbin and Beaker,* by the textile fraternity, *The Slip Stick,* by the engineering societies, *Y. M. C. A. Handbook* under the direction of the Y. M. C. A. Cabinet. *The Tiger,* College newspaper, and *The Taps,* College annual, are published by staffs that carry responsibility for those publications.

Radio. Radio Station WSBF, a 10 watt FM and an AM closed circuit operation, is managed entirely by a student staff. It offers training for announcers, program organization, script writing, and engineering.

ARCHITECTURAL FOUNDATION LECTURES AND EXHIBITS

The School of Architecture at Clemson is able to present annually an outstanding series of lectures, which are open to all Clemson students, through financial grants from the Clemson Architectural Foundation. The Foundation also presents an annual schedule of at least 12 art exhibits in the Architectural School gallery, which is open to the public daily between 8:30 a. m. and 5 p. m.

COLLEGE BANDS

There are three bands open to members of the student body. An entrance audition is the only prerequisite to membership. Instruments are available for those who need them and are furnished without cost.

Tiger Band. The *Tiger Band* and Color Guard, composed of approximately 100 members, participate in football games, pep rallies, college functions, and parades throughout the South. This band has appeared in major stadiums in many states, including the Gator, Orange, Sugar, and Bluebonnet Bowls and has performed on national television. The *Tiger Band* makes several out-of-town trips during the fall season. A smaller "pep band" from its ranks performs at all home basketball games. Members of the *Tiger Band* report to the campus a few days before registration in the fall for intensive pre-school training. Membership is open to all members of the student body.

Concert Band. The Clemson College *Concert Band* is composed of the better musicians on campus. It is formed at the end of the football season, and gives concerts both on and off the campus, including a tour in the spring. This organization plays music of the great composers in addition to lighter fare. Membership is open to the entire student body.

Army ROTC Band. Talented students, members of the *Tiger Band* and *Concert Band* are encouraged to join the *Army ROTC Band.* This band participates in all major military functions, including ceremonial parades and reviews. Admission is open to all Army ROTC personnel.

CONCERT SERIES

The College, through the Concert Committee, brings to the campus each year a series of musical programs. This program is financed through the student activity fee and through the sale of tickets to individual subscribers.

Listed below is the program of concerts offered in 1961-1962:

Ferrante and Teicher

Roger Wagner Chorale

Philadelphia Symphony Orchestra

Fred Waring and The Pennsylvanians

National Ballet of Canada

THE COUNSELING SYSTEM

Guidance has an important role at all levels of education and particularly so at the transition points such as the transfer from high school to college. To assist freshmen in this period of emotional and intellectual readjustment, a counseling program has been established. At the beginning of the freshman year, students are assigned to selected faculty members in their schools. Only 15 or 20 freshmen are assigned to each counselor. These counselors arrange for group and individual conferences with their assigned freshmen and also are available for additional interviews as the need arises. The results of aptitude and achievement tests as well as the mid-term and semester reports of the freshmen are given to the assigned counselors to assist them in the process of individual counseling. While this counseling system is the framework of the guidance program at Clemson, counseling opportunities are by no means confined to this system. Students are encouraged to avail themselves of the counseling opportunities available through the faculty, administrative offices, including the health service, as well as through the student programs of the local churches.

The counseling system is organized under the Dean of Student Affairs and the Deans of the Schools who serve as chief counselors and advisers within their respective schools. The Office of Admissions and Registration acts as a clearinghouse of information concerning student records.

THE STUDENT CENTER

The student center has a student lounge with space for reading and games, a television set, and music rooms. On the third floor there are meeting rooms and the student chapel. Also in this area are the offices of student publications, such as *The Tiger,* student newspaper; *The Taps,* College annual; the engineering magazine, *The Slipstick,* and Radio Station WSBF. The visitors lounge and the information center are on the first floor.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION

Serving both college and community the Clemson Y. M. C. A. promotes growth in Christian character through a well-balanced program of religious, social, recreational, and counseling activities.

Religious activities cut across many areas of college life. Some of these activities are vesper services on Sunday afternoon, daily devotions in the student chapel, residence hall forums and prayer groups, and the participation in and joint sponsorship of the annual campus-wide Religious Emphasis Week program. Student program deputations are exchanged with other colleges and high schools and churches in the area. The Y. M. C. A. cooperates with local church groups in the over-all religious program.

The "Y" offers adequate space and facilities for drop-ins, dances, television, piano entertainment, weight lifting, basketball, swimming, movies, and many other social and recreational activities. The student chapel, which is located in the residence halls, is open twenty-four hours a day for individual and group worship. Appointments, in addition to the ones held in their offices, may be kept with local ministers in the counseling rooms within the chapel.

In addition to the full-time staff, the Y. M. C. A. program is coordinated by a student cabinet and councils which are representative of the undergraduate classes. These groups organize and continually evaluate "Y" activities. The over-all function of the Y. M. C. A. is determined by a board of directors.

AUTOMOBILE PRIVILEGES AND PARKING REGULATIONS

All motor vehicles owned and operated on the campus by students, faculty, and staff members must be registered with the designated College authorities. On registering, each student, faculty, or staff member will be given a copy of the parking and traffic regulations and will be issued a decal which will indicate the zone(s) in which the car may be parked.

A student's having and using an automobile often has an adverse effect on his academic work. Accordingly, the College has adopted a policy that all students classified as freshmen, regardless of the number of years they have attended college, will not be permitted to operate or park any motor vehicle on the campus except on special occasions as designated from time to time by the College administration. Exceptions may be made for commuting students living at home and for students physically handicapped upon petition by the student to the office of the Dean of Student Affairs.

All upperclassmen and their parents are urged to give serious consideration to whether the student should bring an automobile to the campus, especially if residence is in a college dormitory.

ATHLETICS

All students are urged to take part in the intramural sports program conducted by the Athletic Department. This program includes touch football, basketball, volleyball, and softball.

It is the policy of the College to sanction and encourage athletics so long as participation does not interfere with studies and other duties. Football, baseball, basketball, and track are the most popular sports.

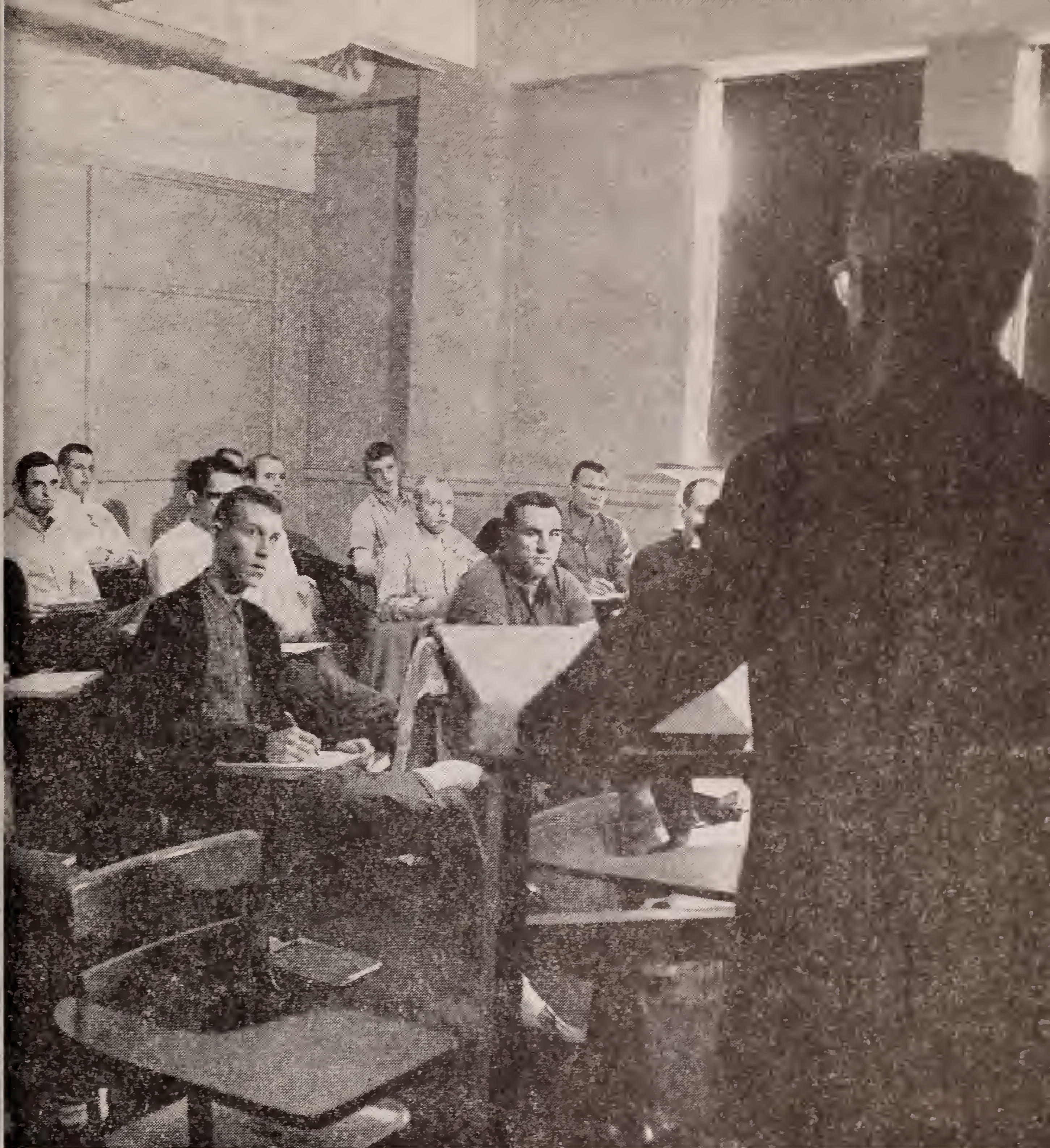
The College is a member of the Atlantic Coast Conference. In order to participate in intercollegiate athletics, the student must meet the requirements of the Atlantic Coast Conference as well as the requirements of the College.

Upon payment of the student activity fee, a portion of which is allocated to the Athletic Department, a non-transferable card is issued which entitles the student to admittance to all home athletic contests.

No member of an athletic team is eligible for a managerial position in any other branch of sport.

No team is allowed to leave the College grounds to participate in any match game unless accompanied by the authorized coach or other member of the faculty, who shall be responsible to the College for the conduct of the players while away.

No student is eligible to participate in an intercollegiate contest who is away from the College without proper authority or without having complied with all the rules or orders issued by the President regarding such matters.



PART IV

Scholastic Regulations

PART IV—Scholastic Regulations

SCHOLASTIC REGULATIONS

Academic Standards. Proper discharge of all duties is required at Clemson College, and a student's first duty is his scholastic work. All students should be thoroughly acquainted with and cognizant of these basic requirements.

The Credit System. The Semester Hour is the basis of all credits. Generally, one recitation hour or 3 laboratory or shop hours a week for a semester constitute a semester hour. Thus, in Engl 101, English Composition, 3 cr. (3,0), as you will find this subject listed in the Degrees and Curriculums, the student takes 3 semester hours. When he completes this course satisfactorily, he is granted 3 semester credit hours on his record. The notation "3 cr. (3,0)" means that the course carries 3 credits, has 3 clock hours of theory or recitation per week, and no laboratory hours. Chem 101, General Chemistry, 4 cr. (3,3), carries 4 semester hours, has 3 hours of theory, and a 3-hour laboratory period.

The amount of work required for each credit will vary with the student's capabilities. In general, it is anticipated that each semester hour credit will require 3 hours work per week for average students. Thus, a 1(1,0) course would have 1 hour of lecture per week and require 2 hours of outside preparation. A 1(0,3) course would require 3 hours of laboratory work and no time for outside preparation.

Semester Grades. The standing of a student in his work at the end of a semester is based upon daily class work, tests or other work, and the final examinations. Faculty members may excuse from the final examinations all students having the grade of A on the work of the course prior to the final examination, but for all other students written examinations are required in all subjects at the end of each semester, except in certain laboratory or practical courses in which final examinations are not deemed necessary by the department faculty.

Scholastic reports are mailed to parents four times each year, including a preliminary statement of progress at the middle of each semester, and a final report at the end of each semester.

The Grading System. The grading system is as follows:

A—*Excellent.* Indicates that the student is doing work of a very high character. The highest grade given.

B—*Good.* Indicates work that is definitely above average, though not of the highest quality.

C—*Fair.* Indicates work of average or medium character.

D—*Pass.* Indicates work below average and unsatisfactory. The lowest passing grade.

E—*Conditioned.* Indicates a failure to satisfy the requirements as to daily recitations, tests or other work, as well as to the final examination, which condition in the opinion of the instructor may be made up by re-examination at some fixed time.

F—*Failed.* Indicates that a student knows so little of the subject that it must be repeated in order that credit may be received.

I—*Incomplete Work.* Indicates that a relatively small part of the semester's work remains undone. Grade I is not given a student who has made a grade F on his daily work. Students are allowed 30 days after the beginning of the next semester in which the student is enrolled to remove the incomplete grade unless (1) an extension of time is approved by the instructor concerned and the Director of Admissions and Registration, or (2) within one year of residence after receiving such a grade, a student repeats the conditioned course satisfactorily at Clemson, in which case no credit hours taken shall be recorded for the grade of I. A student who elects to repeat an incomplete course is responsible for notifying the Office of Admissions and Registration of his election during the semester in which the course is taken.

In order to make up incomplete work, the student must first obtain a permit card from the Office of Admissions and Registration. This card serves as the authority for the removal of the I and also as a form for reporting the final grade.

WP—*Withdrew Passing.* This grade indicates that the student withdrew from the course while doing satisfactory work. No credit hours taken are recorded for the grade of WP provided that the course is dropped prior to the last three weeks of classes in the semester. Only semester grades shall be given and recorded for courses dropped during the last three weeks.

WF—*Withdrew Failing.* Indicates that the student withdrew from the course while doing unsatisfactory work. The credit hours of a subject on which the grade of WF is received are counted as credits taken in computing the student's grade-point ratio.

Dropping Class Work. A subject dropped after the first four weeks of class work is recorded as "Withdrew Passing" or "Withdrew Failing" depending upon the student's grade in the course at the time the subject was dropped.

Upon the recommendation of the instructor and the dean concerned, a student's standing will be investigated and he may be required to drop a subject because of neglect, or lack of application or preparation. No student will be dropped under this rule without approval of the President.

E—*Conditioned Work.* Only one opportunity shall be given a student to remove a condition (E) by a re-examination. A student who fails to pass such a re-examination shall be required to repeat the subject, hour for hour in class. Not more than 12 credit hours of conditions for a session shall be removed by re-examination. A student shall not receive a grade higher than D when a deficiency is removed by re-examination.

Students who made grades of E may stand re-examinations within 30 days after the beginning of the next semester in which the student is enrolled and at the convenience of the instructor unless (1) an extension of time is approved by the instructor concerned and the Director of Admissions and Registration, or (2) within one year of residence after receiving such a grade, a student repeats the conditioned course satisfactorily at Clemson, in which case no credit hours taken shall be recorded for the grade of E. A student who elects to repeat a conditioned course is responsible for notifying the Office of Admissions and Registration of his election during the semester in which the course is taken.

Removal of Failures. A student who has failed (made a grade F) in a subject cannot receive credit for that subject until it has been satisfactorily repeated hour for hour in class, except that in the case of correlated laboratory work, the number of hours to be taken shall be determined by the instructor. Where separate grades for class and laboratory work are given, that part of the subject shall be repeated in which the failure occurs.

Rescheduling Courses Failed. A student who wishes to reschedule a course he has failed must do so within his next year of residence, or, if the course is not offered during this year of residence, he must reschedule the course the first time it is offered thereafter during his attendance at Clemson.

Rescheduling Courses Passed. A student may repeat a course he has passed with a grade lower than B provided he does so within three semesters of residence after the completion of his original enrollment in the course.

Scheduling Remedial Mathematics. Any student who has passed a course in freshman mathematics is ineligible to enroll in Remedial Mathematics.

Withdrawal from College. A student may withdraw from the College any time before the last three weeks of classes in the semester without having grades recorded. A student enrolled the last three weeks of classes shall have final semester grades recorded.

A student withdrawing from College after preliminary reports are due must be passing a minimum of 12 semester credit hours at the time of withdrawal to qualify for re-enrollment the following semester.

After the first withdrawal from College the student is eligible to continue his enrollment the following semester, provided he meets other applicable regulations. For each succeeding withdrawal, however, the student shall be ineligible to continue his enrollment the following semester unless there are extenuating circumstances approved by the Committee on Admissions.

Grade Points—Former System. Prior to the 1952-1953 session, 9 grade points were assigned for each credit hour on which the student received the grade of A; 6 grade points for each credit hour of grade B; and 3 for each credit hour of grade C. No grade points were assigned for grades D, E, F, I, WP, or WF.

Grade Points—Current System. Beginning with the first semester of the 1952-1953 session, 4 grade points are assigned for each credit hour on which the student receives the grade of A, 3 grade points for each credit hour of grade B, 2 grade points for each credit hour of grade C, and 1 grade point for each credit hour of grade D. No grade points are assigned for grades E, F, I, WP, or WF.

Grade-Point Ratio. In calculating a student's grade-point ratio, the total number of grade points accumulated by the student is divided by the total number of credit hours taken by the student during the semester, session or other period for which the ratio is calculated.

Minimum Requirements for Continuing Enrollment. The following regulations are effective for all students who began their enrollment at Clemson in 1959 and later years:

(a) A student who has taken a total of 24 to 59 credit hours at Clemson must have a cumulative grade-point ratio of 1.00 or above.

(b) A student who has taken a total of 60 to 89 credit hours at Clemson must have a cumulative grade-point ratio of 1.30 or above.

(c) A student who has taken a total of 90 or more credit hours at Clemson must have a cumulative grade-point ratio of 1.50 or above.

For students who began their enrollment during 1956, 1957, and 1958, the following regulations apply:

(a) A student who has taken a total of 24 to 59 credit hours at Clemson must have a cumulative grade-point ratio of 0.80 or above.

(b) A student who has taken a total of 60 to 89 credit hours at Clemson must have a cumulative grade-point ratio of 1.20 or above.

(c) A student who has taken a total of 90 or more credit hours at Clemson must have a cumulative grade-point ratio of 1.40 or above.

A student who has taken fewer than 90 credit hours at Clemson and who fails to meet the required grade-point ratio, as indicated in the appropriate table above, may apply for readmission after a minimum of one semester has elapsed. A student who has taken 90 or more credit hours and fails to meet the required grade-point ratio is permanently ineligible for readmission.

Effective in September 1963, all students, regardless of original entry date, must meet the 1.00, 1.30, 1.50 requirements for continuing enrollment in order to enroll for the 1963-1964 session.

Credit by Examination. Credit may be earned by means of a special examination without the necessity of class attendance subject to the following requirements:

(1) The applicant must present evidence which would indicate that he has received training or taken work which is approximately equivalent to that given in the course at Clemson for which an examination is requested and that an examination is warranted.

(2) The applicant must not have previously failed or audited the course at Clemson.

(3) The applicant must apply in writing for the examination and the request must be approved by the Instructor, Head of the Department in which the course is taught, Dean of the School in which the course is taught, and the Director of Admissions and Registration.

(4) A grade of not less than C on the examination is necessary in order for the examinee to receive credit on the course. An examinee receiving credit under this provision receives credit for "hours taken," "hours earned," and grade points as well as the course grade.

(5) The time of the examination will be arranged by the student with the instructor concerned, but must be taken within one month

after the date of final approval or it will be necessary for the student to initiate another request.

Work Taken at Another Institution. Clemson students may receive credit for work taken at another institution; however, approval of the work should be obtained by the student prior to scheduling the work. Information and forms relative to this approval may be obtained in the Office of Admissions and Registration. By obtaining advance approval the student is assured of receiving proper credit at Clemson provided he passes the work with a grade one letter grade higher than the lowest passing grade.

Classification Requirements.

A. To be classified as a senior, a student must have completed sufficient scholastic work toward his degree to enable him to complete the requirements for graduation by completing not more than 42 additional credits. To be classified as a senior, a student must also have a grade-point ratio of 1.70.

B. To be classified as a junior, a student must have completed at least 68 semester credit hours and must have a grade-point ratio of 1.60 or above.

C. To be classified as a sophomore, a student must have completed at least 30 semester credit hours and must have a grade-point ratio of 1.50 or above.

D. All new students are classified as freshmen unless they have attended another college prior to entrance and have completed sufficient scholastic work as to enable them to complete the requirements for graduation from Clemson in not more than three regular sessions.

Regular Advancement in Classification. All students are urged to meet the requirements for sophomore classification by the beginning of the second year, for junior classification by the beginning of the third year, and for senior classification by the beginning of the fourth year. Failure to meet these requirements can jeopardize a student's academic standing with the College as well as jeopardize his deferment under selective service even though he may be otherwise eligible for the deferment.

Course Prerequisites. Prerequisites for individual courses are enumerated under the course listings in the Description of Courses. In addition to these requirements, schools and departments may also establish other standards as conditions for enrollment. In the School of Engineering a grade-point ratio of 1.60 or higher is required for registration in all (1) Engineering courses numbered 300 or higher, and (2) Industrial Education courses numbered 300 and higher.

Maximum Credit Load. The number of credits which a student may schedule in a semester is governed by his grade-point ratio—the cumulative ratio or the ratio for the previous semester, whichever is higher. The entering freshman is restricted to the requirements of his course. Under this system, class advisers have the authority to restrict the student to any one of the following limits as indicated for each ratio:

Grade-Point Ratio Required	*Maximum Credit Hours Which May be Scheduled as Advised by Class Adviser*
0.00 to 0.49	14, 15, or 16
0.50 to 0.99	15, 16, or 17
1.00 to 1.49	16, 17, or 18
1.50 to 1.99	17, 18, or 19
2.00 to 2.49	18, 19, or 20
2.50 to 2.99	19, 20, or 21
3.00 to 3.49	20, 21, or 22
3.50 to 3.99	21, 22, or 23
4.00	22, 23, or 24

Students who lack more than 50 credits of meeting requirements for graduation are restricted to the regular credit limits determined by grade-point ratios.

Students who are within 50 credits of the requirements for graduation who wish to take credit loads in excess of the grade-point ratio limits may request permission for excessive registration, with such requests to be approved or disapproved by the student's Class Adviser and Dean.

If any student schedules excessive credits, he will be automatically dropped from a sufficient number of subjects to reduce his total credits within the limits. If for any reason a student's excessive registration continues throughout the semester, his credit on one or more subjects passed will be cancelled at the end of the semester.

Minimum Credit Load. When any full-time student reduces his credit load below 12 hours, but is still carrying 9 or more, he may be suspended for at least the remainder of the semester upon recommendation of the Dean of Student Affairs and approval of the President. When a student reduces his credit load below 9 hours he shall be suspended for at least the remainder of the semester.

Auditing Policies. Charges for auditing will be one-half the amount charged for part-time students taking courses for credit, except that no matriculation fee will be charged.

Qualified students may audit courses upon the written approval of the professor, head of the department and the dean of the school concerned, and registration with the Director of Admissions and Registration. Auditors are under no obligation of regular attendance, preparation, recitation, or examination and receive no credit. Participation in classroom discussion and laboratory exercises by auditors is at the discretion of the instructor.

A full-time undergraduate student with approval may audit courses at no additional charge as long as the student's credit load, including the course audited, does not exceed his authorized limit.

A graduate student regularly enrolled for a minimum of six semester hours may with approval audit one additional course without charge.

Members of the College teaching staff and the professional staff in research and agricultural extension may with approval audit courses without charge. Other full-time College employees may audit without charge with the additional approval of the employee's immediate supervisor and the Comptroller.

Residence Requirement for Graduation. In order to qualify for an undergraduate degree, a student must spend at least the last year of residence at Clemson and complete at Clemson a minimum of 30 of the last 36 credits presented for the degree.

Quality Requirements for Graduation. For graduation in the calendar years 1962 and 1963, a cumulative grade-point ratio of 1.80 will be required. In 1964, 1965, and 1966 a cumulative grade-point ratio of 1.90 will be required.

Honor Students and Honor Graduates. Each spring an Honors and Awards Day is held honoring students who qualify for the honor list as well as those qualifying for special awards. A cumulative grade-point ratio of 3.00 to 3.49 is required for listing with honor, 3.50 to 3.79 for high honor, and 3.80 or above for inclusion with highest honor.

Graduates who meet the required qualifications are designated as having graduated with honor, with high honor, or with highest honor. A grade-point ratio of 3.00 to 3.49 is required for graduation with honor, 3.50 to 3.79 for high honor, and 3.80 or above for graduation with highest honor.

Examination on F Received in Last Semester. A candidate for a degree who in the semester immediately prior to graduation fails to graduate because of an F on one course taken in that semester may stand a special examination on the course provided:

(1) That the candidate can furnish evidence of having done satisfactory study for the examination.

(2) That the examination is not given until after the regular degree date.

(3) That the candidate has fulfilled, prior to the due date for candidates' grades, all other requirements for his degree except those which can be fulfilled by passing the examination.

(4) That the candidate by removing the F by examination will finish all requirements for his degree which will be awarded on the next regular date for award of degrees.

Examination on E's Received in Last Semester. A candidate for a degree who in the semester immediately prior to graduation receives one or more grades of E shall have an opportunity of removing the unsatisfactory grades only after commencement and at the convenience of the instructor or instructors concerned.

A candidate who qualifies for graduation under this regulation will be awarded his degree on the next regular date for the award of degrees.

Make-Ups of I's Received in Last Semester. A candidate for a degree who in the semester immediately prior to graduation receives one or more grades of I shall have an opportunity of removing the unsatisfactory grades provided the final grades are received in the Office of Admissions and Registration by the time grades for candidates for graduation are due.

A candidate who qualifies for graduation under this regulation will be awarded his degree on the regular date for the award of degrees.

PART V

Degrees and Curriculums

PART V—Degrees and Curriculums

BACHELORS' DEGREES

The degree of Bachelor of Science is awarded to those students who satisfactorily complete one of the 4-year curriculums offered under the School of Agriculture, Arts and Sciences, Engineering, and Textiles. The 5-year curriculum in Architecture leads to the Bachelor of Architecture degree.

The total semester credit hours required for graduation amount to 144 in each of the 4-year curriculums with the exception of the curriculum in Forestry which includes a Forestry summer camp in addition to the 144-hour requirement. In Architecture, a 5-year program, the requirement is 180 semester credit hours.

In addition to the courses prescribed in the various curriculums, each student must complete the elective credits as listed in the curriculums. Students selected for advanced ROTC may substitute air or military science courses for 6 semester credits of these electives. Thus, students who complete the full ROTC program will be required to have 150 semester credit hours for graduation. Students making satisfactory progress may expect to complete the program of work with advanced ROTC in 4 academic years. Others must realize that taking the full ROTC program may necessitate extending their college programs over more than 8 semesters.

The above requirements are effective for any student who originally enrolled at Clemson in June 1958, or later date, except that in the case of a transfer student enrolling in June 1958, or later, the above requirements will apply only to the student whose normal graduation date is 1962 or later.

For graduation in the calendar years 1962 and 1963, a cumulative grade-point ratio of 1.80 or above is required. In 1964, 1965, and 1966 a cumulative grade-point ratio of 1.90 will be required. Candidates for the degrees listed above are required to apply for their degrees within 4 weeks following the opening of the final semester or summer session prior to the date the degrees are to be awarded. These applications should be filled out in the Office of Admissions and Registration on the regular blanks provided.

All work for a degree must be completed, all financial settlements made, and all government property and library books returned by 5 p. m. on the Tuesday preceding graduation. Residence of at least the last regular session is required for graduation.

A student in line for graduation at the end of this semester who fails to graduate because of an F on one course taken this semester may stand a special examination under certain conditions on the course *after the regular degree date.* Similarly, a candidate who received one or more grades of E this semester may have an opportunity of removing the unsatisfactory grades *after the regular degree date.* A senior who qualifies for graduation under either of these provisions will be awarded his degree *on the next regular date* for the award of degrees. For further information see Scholastic Regulations.

A student in line for graduation at the end of a semester or summer term who meets all requirements for graduation except for a deficiency in his grade-point ratio resulting from a deficiency of not more than six grade points shall have the privilege of making up his deficiency by standing special re-examinations under certain conditions.

The examinations shall be taken after the regular degree date and in courses totaling not more than 6 semester credit hours which were passed during the last 1½ or 2 semesters of residence, and only one such examination may be taken on an individual course. When such examinations are taken under the above provision, the credit hours of the course or courses will not be counted as additional credit hours taken. Only the grade points over and above the grade points previously earned in the course may count toward raising the grade-point ratio.

A student who qualifies for graduation under this provision will be awarded his degree on the next regular date for the award of degrees.

If all work toward a degree is not completed within five years after entrance, the student may be required to take additional courses.

GRADUATE DEGREES

The degrees of Doctor of Philosophy, Master of Science, Master of Agricultural Education, and Master of Education are awarded to those students who satisfactorily complete prescribed graduate programs.

For further information concerning advanced degrees see *The Graduate Bulletin,* which may be obtained from the Offices of Admissions and Registration or the Dean of the Graduate School.

UNDERGRADUATE CURRICULUMS

Thirty undergraduate curriculums are offered under the Schools of Agriculture, Architecture, Arts and Sciences, Engineering, and Textiles. The curriculums under each school are listed below:

School of Agriculture
- Agricultural Economics
- Agricultural Education
- *Agricultural Engineering
- Agronomy
- Animal Husbandry
- Biology
- Dairy Science
- Entomology
- Food Technology
- Forestry
- Horticulture
- Poultry Science
- Pre-Veterinary

School of Architecture
- Architecture

School of Arts and Sciences
- Applied Mathematics
- Arts and Sciences
- Chemistry
- Industrial Management
- Physics
- **Pre-Medicine

School of Engineering
- *Agricultural Engineering
- Ceramic Engineering
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Industrial Education
- Industrial Engineering
- Mechanical Engineering

School of Textiles
- Textile Chemistry
- Textile Management
- Textile Science

In the curriculums which follow are given the official title and number of the course, the descriptive title, the number of semester hours credit, and in parentheses the number of hours per week in class and laboratory, respectively.

SCHOOL OF AGRICULTURE

The advance of science and technology has transformed agriculture from what was basically farming into an extremely complex industry. Today the broad field of agriculture includes, in addition to farm production, the processing and distributing of farm products and the providing of supplies and services for the farmer. It has been estimated that these three segments together employ some 26 million people in the United States, thus accounting for 40 per cent of all jobs. In addition, a half million scientists directly or indirectly serve agriculture.

There are more than 500 types of occupations available to college agricultural graduates. Our land-grant colleges, such as Clemson,

* Jointly administered by the School of Agriculture and the School of Engineering.

** Pre-Dental students take a modified Pre-Medicine curriculum.

are graduating about 7,000 students each year in agriculture—less than one-half of the number needed.

The School of Agriculture is composed of three main divisions: Resident Teaching, Research (Agricultural Experiment Station), and Extension (Agricultural Extension Service). Organized under the Division of Resident Teaching are curriculums in Agricultural Economics, Agricultural Education, Agricultural Engineering,* Agronomy, Animal Husbandry, Biology, Dairy Science, Entomology, Food Technology, Forestry, Horticulture, Poultry Science, and Pre-Veterinary Medicine. In order to provide the best possible education for current and future needs in the rapidly changing field of agriculture, the School of Agriculture at Clemson recently made significant changes in the fields of instruction. Among the major changes is the provision in several curriculums for a student to choose from the options in *Science, Business* and *Production Technology.*

Science Option—This option emphasizes the basic sciences that prepare students to contribute to the advancement of knowledge in their respective fields. It is designed for students whose anticipated field of work requires considerable scientific training, usually including graduate studies. Employment opportunities include research with State Agricultural Experiment Stations, the United States Department of Agriculture, and industrial and commercial organizations; and teaching in colleges of agriculture, and other educational work with Federal, State and industrial organizations.

Business Option—This option emphasizes principles and practices of business management as applied to businesses and industries associated with agriculture. It is designed for students who plan to work with one of the many businesses and industries that provide supplies and services for the farmer, and process and distribute farm products. Employment opportunities include work related to meat and poultry processing, sales and service of farm machinery, manufacturing and sales of fertilizers and pesticides, dairy and food processing, grain and seed processing, feed manufacturing, banking and credit, insurance, farm management, land appraising, and the marketing of agricultural commodities.

Production Technology Option—This option emphasizes the application of scientific principles to agricultural production. It is designed for students whose anticipated field of work requires broad general training in scientific and practical agriculture. Em-

* Jointly administered by the School of Agriculture and the School of Engineering.

ployment opportunities include general and specialized farming; agricultural extension services; teaching vocational agriculture; conservation of natural resources; agricultural communication; and agricultural services of the United States Department of Agriculture, State Departments of Agriculture, and private enterprises.

To further illustrate the types of work in which graduates engage, a few of the many occupations of agricultural graduates are listed under each curriculum.

BASIC CURRICULUM

Required of all students planning to major in Agricultural Economics, Agricultural Education, Agronomy, Animal Husbandry, Dairy Science, Entomology, Horticulture or Poultry Science

FRESHMAN YEAR

First Semester		*Second Semester*	
Agr 101 Introd. to Agriculture	1 (1,0)	Agron 102 Crop Science	3 (2,3)
Bot 101 Gen. Botany	4 (3,3)	AH 102 Animal Science*	2 (2,0)
Chem 101 Gen. Chemistry	4 (3,3)	AH 104 Animal Science Lab.*	1 (0,3)
Engl 101 English Composition	3 (3,0)	Chem 102 Gen. Chemistry†	4 (3,3)
Math 105 Freshman Math.	4 (3,2)	Engl 102 English Composition	3 (3,0)
AS or MS — Basic	1 (2,1)	Zool 101 Gen. Zoology	3 (3,0)
		Zool 103 Gen. Zoology Lab.	1 (0,3)
	17	AS or MS — Basic	1 (2,1)
			18

* Students planning to major in Ornamental Horticulture may substitute EG 101 and CE 200 for AH 102 and 104.

† Students planning to choose the Science Option may substitute Chem 104 and 106 for Chem 102. Students for whom this substitution is approved should schedule Math 106 in the second semester of the freshman year.

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

Currently the curriculum in Agricultural Economics and Rural Sociology provides for two options—*Science* and *Business.* In general the *Business* option is the equivalent of a major in Agricultural Business Administration with a strong background in agricultural and biological science. Those who select this option would not normally expect to pursue their formal training much beyond the bachelor's degree. The *Science* option on the other hand has been designed primarily for those who expect to become professional agricultural economists or rural sociologists and whose plans for education would likely include some work at the graduate level.

Employment opportunities open to graduates with degrees in Agricultural Economics are many. They include research and teaching in institutions of higher learning; sales and promotional work for a variety of businesses; management positions in the farm loan departments of private banks or with cooperative farm credit agencies; public relations activities for various firms; market managers and directors; county agents; representatives of government agencies serving agriculture; and operators of numerous enterprises.

AGRICULTURAL ECONOMICS MAJOR

(See page 106 for *Freshman Year*)

SCIENCE OPTION

SOPHOMORE YEAR

First Semester			*Second Semester*		
Acct 201 Prin. of Accounting	3	(3,0)	Ag Ec 202 Agric. Economics	3	(3,0)
Agron 202 Soils	3	(2,3)	Econ 202 Principles of Econ.	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Math 205 Calculus I	4	(3,2)
Math 106 Freshman Math.	4	(3,2)	Phys 201 Gen. Physics	3	(3,0)
AS or MS — Basic	1	(2,1)	Phys 203 Gen. Physics Lab.	1	(0,3)
			AS or MS — Basic	1	(2,1)
	17			18	

JUNIOR YEAR

Ag Ec 309 Introd. to Marketing	3	(3,0)	Ag Ec 352 Public Finance	3	(3,0)
Ag Ec 460 Agric. Finance	2	(2,0)	Hist 301 U. S. Since 1865	3	(3,0)
Econ 302 Money and Banking	3	(3,0)	RS 301 Rural Sociology	3	(3,0)
Gov 301 Am. Gov. and Pol. Par.	3	(3,0)	Economics Elective†	3	
Psych 301 Gen. Psychology	3	(3,0)	Approved Electives*	6	
Approved Electives*	4				
	18			18	

SENIOR YEAR

Ag Ec 401 Statistics	3	(2,3)	Ag Ec 406 Seminar	1	(1,0)
Ag Ec 405 Seminar	1	(1,0)	Ag Ec 452 Agric. Policy	3	(3,0)
Agron 302 Genetics	3	(2,3)	Ag Ec 456 Prices	3	(3,0)
Engl 401 Advanced Comp.	3	(3,0)	Ag Ec 462 Applied Statistics	3	(2,3)
Economics Elective†	3		Engl 301 Public Speaking	3	(3,0)
Approved Electives*	6		Approved Electives*	6	
	19			19	

* Of the 22 hours of approved electives a minimum of 9 hours must be taken in other departments in the School of Agriculture.

† To be selected from the following courses: Econ 314, Econ 403, Econ 404, Econ 406, Econ 407, Econ 412, Econ 416, For 304, Hist 406, IM 404.

BUSINESS OPTION

SOPHOMORE YEAR

First Semester			*Second Semester*		
Agron 202 Soils	3	(2,3)	Acct 201 Prin. of Accounting	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	Ag Ec 202 Agric. Economics	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
IM 201 Introd. to Ind. Mgt.	3	(3,0)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Math 106 Freshman Math.*	4	(3,2)	Phys 201 Gen. Physics	3	(3,0)
AS or MS — Basic	1	(2,1)	Phys 203 Gen. Physics Lab.	1	(0,3)
			AS or MS — Basic	1	(2,1)
	17			17	

JUNIOR YEAR

Ag Ec 309 Introd. to Marketing	3	(3,0)	Ag Ec 302 Farm Management	3	(2,3)
Dy Sc 351 Advertising and Merch.	3	(3,0)	Ag Ec 352 Public Finance	3	(3,0)
Hist 301 U. S. Since 1865	3	(3,0)	RS 301 Rural Sociology	3	(3,0)
Psych 301 Gen. Psychology	3	(3,0)	Business Elective‡	3	
Approved Electives†	7		Approved Electives†	7	
	19			19	

SENIOR YEAR

Ag Ec 401 Statistics	3	(2,3)	Ag Ec 406 Seminar	1	(1,0)
Ag Ec 405 Seminar	1	(1,0)	Ag Ec 452 Agric. Policy	3	(3,0)
Ag Ec 451 Agric. Cooperation	2	(2,0)	Ag Ec 456 Prices	3	(3,0)
Agron 302 Genetics	3	(2,3)	Ag Ec 460 Agric. Finance	2	(2,0)
Engl 401 Advanced Comp.	3	(3,0)	Ag Ec 462 Applied Statistics	3	(2,3)
Business Elective‡	3		Engl 301 Public Speaking	3	(3,0)
Approved Electives†	3		Approved Electives†	4	
	18			19	

* With approval of class adviser Chem 220 may be substituted for Math 106.

† Of the 21 hours of approved electives a minimum of 9 hours must be taken in other departments in the School of Agriculture.

‡ To be selected from the following courses: Acct 202, Ag Ec 361, Econ 301, Econ 302, Econ 312, IM 301, IM 302, IM 304, IM 307, IM 402.

AGRICULTURAL EDUCATION

This curriculum, organized within the framework of the Production Technology option, is designed primarily for students who wish to prepare for positions in vocational agriculture. It is also appropriate for those who plan to engage in other forms of rural educational work such as agricultural missionary, public relations, and agricultural extension. In addition many graduates enter farming, soil conservation and other governmental work whereas others are employed in business and industry.

The curriculum provides for a broad training in agriculture as well as general and professional education, including student teaching.

AGRICULTURAL EDUCATION MAJOR

(See page 106 for *Freshman Year*)

Sophomore Year

First Semester			*Second Semester*		
Ag Ed 201 Introd. to Education	3	(2,3)	Ag Ec 202 Agric. Economics	3	(3,0)
Agron 202 Soils	3	(2,3)	AgE 205 Farm Shop	3	(2,3)
Econ 201 Principles of Econ.	3	(3,0)	AgE 206 Agric. Mechanization	3	(2,3)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Phys 201 Gen. Physics	3	(3,0)	Hort 201 Gen. Horticulture	3	(2,3)
Phys 203 Gen. Physics Lab.	1	(0,3)	PS 201 Introd. to Poultry Sci.	3	(2,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	17			19	

Junior Year

AgE 301 Soil Conservation	3	(2,3)	Ag Ec 452 Agric. Policy	3	(3,0)
Dy Sc 201 Introd. Dairying	3	(3,2)	AH 301 Feeds and Feeding	3	(3,0)
Engl 301 Public Speaking	3	(3,0)	Ed 302 Educ. Psychology	3	(3,0)
Gov 301 Am. Gov. and Pol. Par.	3	(3,0)	For 307 Farm Forestry	3	(2,3)
Hort 464 Food Preservation*	3	(2,3)	RS 301 Rural Sociology	3	(3,0)
Approved Elective	3		Approved Elective	3	
	18			18	

Senior Year

Ag Ec 302 Farm Management	3	(2,3)	Ag Ed 401 Methods in Ag. Educ.	3	(2,3)
Agron 301 Fertilizers	3	(3,0)	Ag Ed 406 Directed Teaching	6	(0,18)
Bot 401 Plant Pathology	3	(2,3)	Ag Ed 422 Prob. in Adult Educ.	3	(2,3)
Ent 301 Elem. and Econ. Ent.	3	(2,3)	Ed 458 Health Educ.	3	(3,0)
Hort 407 Landscape Design	3	(2,3)	Music 310 Music Appreciation	3	(3,0)
Approved Elective	4				
	19			18	

* Hort 302 or 305 or 352 or 451 or 456 may be substituted upon approval of the class adviser.

AGRONOMY

The curriculum in Agronomy deals with crop and soil science. Trained agronomists may choose their life work from many different fields that relate to soils and crops. The work they choose may range from the highly applied (farming) to the highly abstract (basic research). Between these extremes are the college and high school teaching, the extension service, and soil conservation work. Fertilizer companies and manufacturers of weed control chemicals conduct research, sales, and technical services that employ agronomists. Large seed companies are looking for plant breeders and other men trained in agronomy to direct their production programs. Recently, opportunities have intensified for soil scientists to make land appraisals for tax commissions and others. Agronomists hold many important administrative positions. Some are doing technical work with Foundations in Asia and South America.

Options may be chosen in either *Science, Business*, or *Production Technology*.

AGRONOMY MAJOR

(See page 106 for *Freshman Year*)

SCIENCE OPTION

Sophomore Year

First Semester			*Second Semester*		
Chem 321 Prin. of Org. Chem.	4	(3,3)	Agron 202 Soils	3	(2,3)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Chem 322 Prin. of Org. Chem.	4	(3,3)
Math 106 Freshman Math.	4	(3,2)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Phys 201 Gen. Physics	3	(3,0)	Math 205 Calculus I	4	(3,2)
Phys 203 Gen. Physics Lab.	1	(0,3)	Phys 202 Gen. Physics	3	(3,0)
AS or MS — Basic	1	(2,1)	Phys 204 Gen. Physics Lab.	1	(0,3)
	16		AS or MS — Basic	1	(2,1)
				19	

Junior Year

First Semester			*Second Semester*		
Agron 302 Genetics	3	(2,3)	Bot 352 Plant Physiology	4	(3,3)
Bact 301 Gen. Bacteriology	4	(3,3)	Engl 301 Public Speaking	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	Approved Electives†	12	
Math 206 Calculus II	4	(3,2)			
Social Science Elective*	3			19	
	17				

Senior Year

First Semester			*Second Semester*		
Ag Ec 401 Statistics	3	(2,3)	Agron 405 Plant Breeding	3	(2,3)
Agron 455 Seminar	1	(1,0)	or Bact 410 Soil Microbiology	3	(2,3)
Bot 401 Plant Pathology	3	(2,3)	Agron 456 Seminar	1	(1,0)
Approved Electives†	12		Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
	19		Approved Electives†	12	
				19	

* To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

† At least nine credits must be taken from the following courses: Agron 301, Agron 306, Agron 308, Agron 401, Agron 403, Agron 409, Agron 452, Hort 468.

BUSINESS OPTION

Sophomore Year

First Semester			*Second Semester*		
Chem 220 Elem. Org. Chem.	4	(3,3)	Acct 201 Prin. of Accounting	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	Ag Ec 202 Agric. Economics	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Agron 202 Soils	3	(2,3)
IM 201 Introd. to Ind. Mgt.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Hort Elective	3		Phys 201 Gen. Physics	3	(3,0)
AS or MS — Basic	1	(2,1)	Phys 203 Gen. Physics Lab.	1	(0,3)
	17		AS or MS — Basic	1	(2,1)
				17	

Junior Year

First Semester			*Second Semester*		
Agron 301 Fertilizers	3	(3,0)	Ag Ec 309 Introd. to Marketing	3	(3,0)
Agron 302 Genetics	3	(2,3)	Agron 306 Forage & Pasture Crops	3	(3,0)
Bact 301 Gen. Bacteriology	4	(3,3)	Agron 308 Phys. & Chem. Edaph.	3	(1,6)
Engl 301 Public Speaking	3	(3,0)	Bot 352 Plant Physiology	4	(3,3)
Social Science Elective*	3		Approved Electives†	6	
Approved Elective†	3			19	
	19				

* To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

Senior Year

First Semester			*Second Semester*		
Agron 401 Adv. Crop & Seed Lab.	1	(0,3)	Agron 405 Plant Breeding	3	(2,3)
Agron 403 Soil Classification	2	(1,3)	Agron 452 Soil Fert. and Mgt.	2	(2,0)
Agron 409 Cotton & Tobacco	3	(3,0)	Agron 456 Seminar	1	(1,0)
Agron 455 Seminar	1	(1,0)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Bot 401 Plant Pathology	3	(2,3)	Approved Electives†	9	
Approved Electives†	9				
	19			18	

† At least three of the following courses must be completed: Ag Ec 352, Ag Ec 456, Ag Ec 460, Dy Sc 351, Econ 302, Econ 312, IM 302, IM 307.

PRODUCTION TECHNOLOGY OPTION

Sophomore Year

First Semester			*Second Semester*		
Chem 220 Elem. Org. Chem.	4	(3,3)	Ag Ec 202 Agric. Economics	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	AgE 206 Agric. Mechanization	3	(2,3)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Agron 202 Soils	3	(2,3)
Phys 201 Gen. Physics	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Phys 203 Gen. Physics Lab.	1	(0,3)	AS or MS — Basic	1	(2,1)
AS or MS — Basic	1	(2,1)	Hort Elective	3	
Approved Elective	3		Approved Elective	3	
	18			19	

Junior Year

First Semester			*Second Semester*		
Ag Ec 302 Farm Management	3	(2,3)	Agron 302 Genetics	3	(2,3)
AgE 301 Soil Conservation	3	(2,3)	Agron 306 Forage & Pasture Crops	3	(3,0)
Agron 301 Fertilizers	3	(3,0)	Agron 308 Phys. & Chem. Edaph.	3	(1,6)
Bact 301 Gen. Bacteriology	4	(3,3)	Bot 352 Plant Physiology	4	(3,3)
Ent 301 Elem. and Econ. Ent.	3	(2,3)	Engl 301 Public Speaking	3	(3,0)
Social Science Elective*	3		Approved Elective	3	
	19			19	

Senior Year

First Semester			*Second Semester*		
Agron 401 Adv. Crop & Seed Lab.	1	(0,3)	Agron 405 Plant Breeding	3	(2,3)
Agron 403 Soil Classification	2	(1,3)	Agron 452 Soil Fert. and Mgt.	2	(2,0)
Agron 409 Cotton & Tobacco	3	(3,0)	Agron 456 Seminar	1	(1,0)
Agron 455 Seminar	1	(1,0)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Bot 401 Plant Pathology	3	(2,3)	Hort 468 Introd. to Research	2	(1,3)
Approved Electives	7		Approved Electives	6	
	17			17	

* To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

ANIMAL HUSBANDRY

The Animal Husbandry Department emphasizes subject matter dealing with the application of scientific principles to livestock production and processing.

Occupations for Animal Husbandry graduates include livestock farming; cattle, swine and sheep breeding; extension livestock specialists; feed specialists; county agents; teaching and research in animal industry; positions with meat packing companies; feed dealers; freezer locker operators; livestock dealers; and livestock commission brokers.

The Animal Husbandry Department offers options in *Science, Business* and *Production Technology.*

ANIMAL HUSBANDRY MAJOR

(See page 106 for *Freshman Year*)

SCIENCE OPTION

Sophomore Year

First Semester		*Second Semester*	
Chem 321 Prin. of Org. Chem.	4 (3,3)	Agron 202 Soils	3 (2,3)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Econ 201 Principles of Econ.	3 (3,0)
Math 106 Freshman Math.	4 (3,2)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
Phys 201 Gen. Physics	3 (3,0)	Phys 202 Gen. Physics	3 (3,0)
Phys 203 Gen. Physics Lab.	1 (0,3)	Phys 204 Gen. Physics Lab.	1 (0,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
		Chemistry Elective*	4 or 5
	16		18 or 19

Junior Year

First Semester		*Second Semester*	
AH 301 Feeds and Feeding	3 (3,0)	Agron 302 Genetics	3 (2,3)
AH 303 Feeds and Feeding Lab.	1 (0,3)	AH 306 Judging	2 (1,3)
AH 353 Meats	1 (1,0)	Bact 301 Gen. Bacteriology	4 (3,3)
AH 355 Meats Lab.	2 (0,6)	Engl 301 Public Speaking	3 (3,0)
Zool 307 Animal Anat. and Phys.	3 (2,3)	Gov 301 Am. Gov. and Pol. Par.	3 (3,0)
Social Science Elective†	3	Approved Elective‡	4
Approved Electives‡	6		
	19		19

Senior Year

First Semester		*Second Semester*	
Ag Ec 401 Statistics	3 (2,3)	AH 406 Seminar	2 (2,0)
Dy Sc 403 Animal Nutrition	3 (3,0)	AH 452 Animal Breeding	3 (3,0)
Approved Electives‡	13	Approved Electives‡	13 or 12
	19		18 or 17

* Chem 216, Chem 310, or Chem 322.

† To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

‡ Two of the following courses must be completed: AH 401, AH 407, or AH 408. One of the following lab courses must also be completed: AH 403, AH 409, or AH 410. The lab taken must correspond to one of the theory courses selected.

BUSINESS OPTION

Sophomore Year

First Semester		*Second Semester*	
Agron 202 Soils	3 (2,3)	Acct 201 Prin. of Accounting	3 (3,0)
Chem 220 Elem. Org. Chem.	4 (3,3)	Ag Ec 202 Agric. Economics	3 (3,0)
Econ 201 Principles of Econ.	3 (3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Phys 201 Gen. Physics	3 (3,0)
IM 201 Introd. to Ind. Mgt.	3 (3,0)	Phys 203 Gen. Physics Lab.	1 (0,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
		Approved Electives*	4
	17		18

Junior Year

First Semester		*Second Semester*	
Agron 302 Genetics	3 (2,3)	Ag Ec 309 Introd. to Marketing	3 (3,0)
AH 301 Feeds and Feeding	3 (3,0)	AH 306 Judging	2 (1,3)
AH 303 Feeds and Feeding Lab.	1 (0,3)	Bact 301 Gen. Bacteriology	4 (3,3)
AH 353 Meats	1 (1,0)	Gov 301 Am. Gov. and Pol. Par.	3 (3,0)
AH 355 Meats Lab.	2 (0,6)	Social Science Elective†	3 (3,0)
Engl 301 Public Speaking	3 (3,0)	Approved Elective*	4
Approved Electives*	6		
	19		19

Senior Year

First Semester		*Second Semester*	
Dy Sc 403 Animal Nutrition	3 (3,0)	AH 406 Seminar	2 (2,0)
Approved Electives*	15	AH 452 Animal Breeding	3 (3,0)
		Approved Electives*	13
	18		18

* Two of the following courses must be completed: AH 401, AH 407, or AH 408. The lab courses corresponding to the theory courses must also be completed.

At least three of the following courses must be completed: Ag Ec 352, Ag Ec 456, Ag Ec 460, Dy Sc 351, Econ 302, Econ 312, IM 302, IM 307.

At least three of the following courses must be completed: PS 355, Dy Sc 302, AH 305, Bact 401, Hort 464, PS 352, PS 458, Agron 301, Dy Sc 452.

† To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, or Soc 301.

PRODUCTION TECHNOLOGY OPTION

Sophomore Year

First Semester			*Second Semester*		
Chem 220 Elem. Org. Chem.	4	(3,3)	Ag Ec 202 Agric. Economics	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	Agron 202 Soils	3	(2,3)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Zool 307 Animal Anat. & Phys.	3	(2,3)	Phys 201 Gen. Physics	3	(3,0)
AS or MS — Basic	1	(2,1)	Phys 203 Gen. Physics Lab.	1	(0,3)
Approved Elective	3		AS or MS — Basic	1	(2,1)
	17		Approved Elective	3	
				17	

Junior Year

First Semester			*Second Semester*		
Agron 301 Fertilizers	3	(3,0)	Ag Ec 302 Farm Management	3	(2,3)
AH 301 Feeds and Feeding	3	(3,0)	Agron 302 Genetics	3	(2,3)
AH 303 Feeds and Feeding Lab.	1	(0,3)	AH 306 Judging	2	(1,3)
AH 353 Meats	1	(1,0)	Bact 301 Gen. Bacteriology	4	(3,3)
AH 355 Meats Lab.	2	(0,6)	Engl 301 Public Speaking	3	(3,0)
Gov 301 Am. Gov. and Pol. Par.	3	(3,0)	Approved Elective	4	
Social Science Elective*	3			19	
Approved Elective	3				
	19				

Senior Year

First Semester			*Second Semester*		
AH 401 Beef Production	3	(3,0)	AH 406 Seminar	2	(2,0)
AH 403 Beef Production Lab.	1	(0,3)	AH 408 Pork Production	3	(3,0)
AH 407 Horse & Sheep Prod.	2	(2,0)	AH 410 Pork Production Lab.	1	(0,3)
AH 409 Horse & Sheep Prod. Lab.	1	(0,3)	AH 452 Animal Breeding	3	(3,0)
Dy Sc 403 Animal Nutrition	3	(3,0)	Approved Electives	9	
Dy Sc 453 Reprod. of Farm Ani.	3	(3,0)		18	
Ent 301 Elem. and Econ. Ent.	3	(2,3)			
Approved Elective	3				
	19				

* To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

DAIRY SCIENCE

Selected studies of fundamental and technical nature, superimposed upon the required basic science core of the Dairy Science curriculum, enable students to acquire the perspective, understanding, and proficiency necessary to enter a demanding, rewarding, and respected industry. The production and processing areas in the Dairy Science curriculum emphasize understanding based on scientific principles, explaining why the tenets are true. Somewhat less emphasis is given to phases of technology concerned with how to do things, but these areas are given good coverage.

Required and suggested studies in Arts and Sciences plus courses selected by the student in areas of personal interest complete the educational program designed to fit the graduate for his total lifework.

Occupational opportunities for dairy science graduates include management of production and processing facilities, teaching, research, and extension work, quality control work for processing units and production organizations, public health service, industrial promotion and public relations work in both production and processing fields, dairy and food products engineering, special services, and educational work in non-institutional fields. Special service opportunities are available in areas of state and national breed association work, breeding organizations, industrial supplies, production and processing equipment and supplies. Opportunities in educational activities not connected with schools and colleges include positions with industrial associations, state and federal services, and federal programs with foreign assignments.

The Dairy Science curriculum has three self-contained options—*Science, Business,* and *Production Technology.*

DAIRY SCIENCE MAJOR

(See page 106 for *Freshman Year*)

SCIENCE OPTION

Sophomore Year

First Semester		*Second Semester*	
Chem 321 Prin. of Org. Chem.	4 (3,3)	Agron 202 Soils	3 (2,3)
Econ 201 Principles of Econ.	3 (3,0)	Chem 322 Prin. of Org. Chem.	4 (3,3)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Dy Sc 201 Introd. Dairying	3 (2,3)
Math 106 Freshman Math.	4 (3,2)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
Phys 201 Gen. Physics	3 (3,0)	Phys 202 Gen. Physics	3 (3,0)
Phys 203 Gen. Physics Lab.	1 (0,3)	Phys 204 Gen. Physics Lab.	1 (0,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
	19		18

Junior Year

Bact 301 Gen. Bacteriology	4 (3,3)	Agron 302 Genetics	3 (2,3)
Dy Sc 303 Chem. & Phys. Nature of Milk	3 (2,3)	AH 301 Feeds and Feeding	3 (3,0)
Dy Sc 307 Market Milk*	3 (2,3)	Chem 310 Agric. Biochemistry	4 (3,3)
Engl 301 Public Speaking	3 (3,0)	Dy Sc 302 Dairy Tech. & Engr.	3 (2,3)
Social Science Elective‡	3 (3,0)	Dy Sc 304 Judging Dairy Prod.	2 (1,3)
Approved Elective	3	or Dy Sc 310 D. Cattle Judging	1 (0,3)
		Gov 301 Am. Gov. and Pol. Par.	3 (3,0)
	19		18 or 17

Senior Year

Bact 402 Dairy Bacteriology	3 (2,3)	Ag Ec 401 Statistics	3 (2,3)
Dy Sc 403 Animal Nutrition	3 (3,0)	AH 452 Animal Breeding	3 (3,0)
Dy Sc 405 Dairy Manufactures	4 (3,3)	or Dairy 404 Dairy Plant Mgt.	3 (2,3)
or Dy Sc 453 Reprod. of Farm Animals†	3 (3,0)	Dy Sc 410 Dairy Seminar	2 (2,0)
Dy Sc 409 Dairy Seminar	2 (2,0)	Dy Sc 452 Dairy Cattle Feed. & Mgt.	3 (2,3)
Zool 307 Animal Anat. & Phys.	3 (2,3)	Approved Electives	6 — 8
Approved Elective	3		
	18 or 17		17 — 19

* Taught only in academic years ending with even number (example 1963-1964).
† Taught only in academic years ending with odd number (example 1962-1963).
‡ To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

BUSINESS OPTION

Sophomore Year

First Semester		*Second Semester*	
Acct 201 Prin. of Accounting	3 (3,0)	Ag Ec 202 Agric. Economics	3 (3,0)
Chem 220 Elem. Org. Chem.	4 (3,3)	Agron 202 Soils	3 (2,3)
Econ 201 Principles of Econ.	3 (3,0)	Dy Sc 201 Introd. Dairying	3 (2,3)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
Phys 201 Gen. Physics	3 (3,0)	IM 201 Introd. to Indust. Mgt.	3 (3,0)
Phys 203 Gen. Physics Lab.	1 (0,3)	AS or MS — Basic	1 (2,1)
AS or MS — Basic	1 (2,1)	Approved Elective§	3
	18		19

§ At least three of the following courses must be completed: Ag Ec 352, Ag Ec 456, Ag Ec 460, Dy Sc 351, Econ 302, Econ 312, IM 302, IM 307.

Junior Year

First Semester		*Second Semester*	
Bact 301 Gen. Bacteriology	4 (3,3)	Ag Ec 309 Introd. to Marketing	3 (3,0)
Dy Sc 303 Chem. & Phy. Nature of Milk	3 (2,3)	Agron 302 Genetics	3 (2,3)
Dy Sc 307 Market Milk*	3 (2,3)	AH 301 Feeds and Feeding	3 (3,0)
Engl 301 Public Speaking	3 (3,0)	AH 303 Feeds and Feeding Lab.	1 (0,3)
Social Science Elective‡	3	Dy Sc 302 Dairy Tech. & Engr.	3 (2,3)
Approved Elective§	3	Dy Sc 304 Judging Dairy Prod.	2 (1,3)
		or Dy Sc 310 D. Cattle Judging	1 (0,3)
		Gov 301 Am. Gov. and Pol. Par.	3 (3,0)
	19		18 or 17

Senior Year

Bact 402 Dairy Bacteriology	3 (2,3)	AH 452 Animal Breeding	3 (3,0)
Dy Sc 403 Animal Nutrition	3 (3,0)	or Dy Sc 404 Dairy Plant Mgt.	3 (2,3)
Dy Sc 405 Dairy Manufactures	4 (3,3)	Dy Sc 410 Dairy Seminar	2 (2,0)
or Dy Sc 453 Reprod. of Farm Animals†	3 (3,0)	Dy Sc 452 Dairy Cattle Feed. & Mgt.	3 (2,3)
Dy Sc 409 Dairy Seminar	2 (2,0)	Approved Electives§	9 — 11
Approved Electives§	6		
	18 or 17		17 — 19

* Taught only in academic years ending with even number (example 1963-1964).
† Taught only in academic years ending with odd number (example 1962-1963).
‡ To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.
§ At least three of the following courses must be completed: Ag Ec 352, Ag Ec 456, Ag Ec 460, Dy Sc 351, Econ 302, Econ 312, IM 302, IM 307.

PRODUCTION TECHNOLOGY OPTION

Sophomore Year

First Semester		*Second Semester*	
Ag Ec 305 Farm Accounting	3 (2,3)	Ag Ec 202 Agric. Economics	3 (3,0)
Chem 220 Elem. Org. Chem.	4 (3,3)	Ag Ec 302 Farm Management	3 (2,3)
Econ 201 Principles of Econ.	3 (3,0)	Agron 202 Soils	3 (2,3)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Agron 306 Forage & Pasture Crops	3 (3,0)
Phys 201 Gen. Physics	3 (3,0)	Dy Sc 201 Introd. Dairying	3 (2,3)
Phys 203 Gen. Physics Lab.	1 (0,3)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
	18		19

Junior Year

Bact 301 Gen. Bacteriology	4 (3,3)	Agron 302 Genetics	3 (2,3)
Dy Sc 303 Chem. & Phy. Nature of Milk	3 (2,3)	AH 301 Feeds and Feeding	3 (3,0)
Dy Sc 307 Market Milk*	3 (2,3)	AH 303 Feeds and Feeding Lab.	1 (0,3)
Engl 301 Public Speaking	3 (3,0)	Dy Sc 302 Dairy Tech. & Engr.	3 (2,3)
Social Science Elective‡	3	Dy Sc 310 Dairy Cattle Judging	1 (0,3)
Approved Elective	3	Gov 301 Am. Gov. and Pol. Par.	3 (3,0)
		Approved Elective	3
	19		17

Senior Year

Bact 402 Dairy Bacteriology	3 (2,3)	AH 452 Animal Breeding	3 (3,0)
Dy Sc 403 Animal Nutrition	3 (3,0)	or Dy Sc 404 Dairy Plant Mgt.	3 (2,3)
Dy Sc 405 Dairy Manufactures	4 (3,3)	Dy Sc 410 Dairy Seminar	2 (2,0)
or Dy Sc 453 Reprod. of Farm Animals†	3 (3,0)	Dy Sc 452 Dairy Cattle Feed. & Mgt.	3 (2,3)
Dy Sc 409 Dairy Seminar	2 (2,0)	Dy Sc 458 Art. Insem. of Farm Animals*	3 (2,3)
Zool 307 Animal Anat. & Phys.	3 (2,3)	Ent 301 Elem. and Econ. Ent.	3 (2,3)
Approved Elective	3	Approved Elective	4 or 5
	18 or 17		18 or 19

* Taught only in academic years ending with even number (example 1963-1964).
† Taught only in academic years ending with odd number (example 1962-1963).
‡ To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

ENTOMOLOGY

Entomology is that branch of science that deals with the study of insects. In many ways insects are the most important group of animals that affect man. At the present time insects are costing the American public approximately four billion dollars annually. There will always be a need for qualified entomologists and the financial rewards to members of this profession are comparable to those enjoyed by most other scientists.

Two options are available in the Entomology curriculum—*Science* and *Business*. Depending on training, ability, and interest, entomologists find employment in such areas as the following: (1) research entomologists with several federal agencies, the state experiment stations, or private research foundations; (2) teaching entomology and/or zoology at the college or university level; (3) industrial research and the development of more efficient insecticides; (4) quarantine and regulatory work at both state and federal levels; (5) sales and management for agricultural chemical or the pest control industries; (6) the federal and state extension services; (7) many other specialized areas where a knowledge of insects is essential, such as beekeeping or disease transmission.

ENTOMOLOGY MAJOR

(See page 106 for *Freshman Year*)

SCIENCE OPTION

Sophomore Year

First Semester			*Second Semester*		
Chem 216 Quan. Analysis	5	(3,6)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Econ 201 Principles of Econ.	3	(3,0)
Math 106 Freshman Math.	4	(3,2)	Ent 301 Elem. and Econ. Ent.	3	(2,3)
Phys 201 Gen. Physics	3	(3,0)	Phys 202 Gen. Physics	3	(3,0)
Phys 203 Gen. Physics Lab.	1	(0,3)	Phys 204 Gen. Physics Lab.	1	(0,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	17		Approved Elective	4	
				18	

Junior Year

Bact 301 Gen. Bacteriology	4	(3,3)	Agron 302 Genetics	3	(2,3)
Chem 321 Prin. of Org. Chem.	4	(3,3)	Bot 352 Plant Physiology	4	(3,3)
Ent 305 Econ. Entomology*	3	(2,3)	Chem 322 Prin. of Org. Chem.	4	(3,3)
Zool 307 Animal Anat. & Physiol.	3	(2,3)	Ent 306 Econ. Entomology*	3	(2,3)
Approved Electives	4		Approved Electives	5	
	18			19	

Senior Year

Ag Ec 401 Statistics	3	(2,3)	Ent 408 Gen. & Tax. Ent.†	5	(3,6)
Bot 401 Plant Pathology	3	(2,3)	Ent 462 Seminar†	1	(1,0)
Engl 301 Public Speaking	3	(3,0)	Ent 468 Introd. to Research†	2	(1,3)
Ent 405 Insect Morph.†	4	(3,3)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Ent 461 Seminar†	1	(1,0)	Social Science Elective§	3	(3,0)
Approved Electives	4		Approved Electives	5	
	18			19	

* To be taught in 1961-1962 and alternate years thereafter.
† To be taught in 1962-1963 and alternate years thereafter.
§ At least three of the following courses must be completed: Ag Ec 352, Ag Ec 456, Ag Ec 460, Dy Sc 351, Econ 302, Econ 312, IM 302, IM 307.

BUSINESS OPTION

Sophomore Year

First Semester			Second Semester		
Agron 202 Soils	3	(2,3)	Acct 201 Prin. of Accounting	3	(3,0)
Chem 220 Elem. Org. Chem.	4	(3,3)	Ag Ec 202 Agric. Economics	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Ent 301 Elem. and Econ. Ent.	3	(2,3)
IM 201 Introd. to Ind. Mgt.	3	(3,0)	Phys 201 Gen. Physics	3	(3,0)
AS or MS — Basic	1	(2,1)	Phys 203 Gen. Physics Lab.	1	(0,3)
	17		AS or MS — Basic	1	(2,1)
				17	

Junior Year

First Semester			Second Semester		
Ag Ec 309 Introd. to Marketing	3	(3,0)	Bact 301 Gen. Bacteriology	4	(3,3)
Agron 302 Genetics	3	(2,3)	Engl 301 Public Speaking	3	(3,0)
Dy Sc 351 Advertising and Merch.	3	(3,0)	Ent 306 Econ. Entomology*	3	(2,3)
Ent 305 Econ. Entomology*	3	(2,3)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Zool 307 Animal Anat. & Physiol.	3	(2,3)	Approved Electives	6	
Approved Electives	4			19	
	19				

Senior Year

First Semester			Second Semester		
Bot 401 Plant Pathology	3	(2,3)	Ent 408 Gen. & Tax. Ent.†	5	(3,6)
Econ 312 Commercial Law	3	(3,0)	Ent 462 Seminar†	1	(1,0)
Ent 405 Insect Morph.†	4	(3,3)	Ent 468 Introd. to Research†	2	(1,3)
Ent 461 Seminar†	1	(1,0)	IM 307 Personnel Management	3	(3,0)
Approved Electives	8		Social Science Elective‡	3	(3,0)
	19		Approved Electives	4	
				18	

* To be taught in 1961-1962 and alternate years thereafter.
† To be taught in 1962-1963 and alternate years thereafter.
‡ To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

HORTICULTURE (Fruit and Vegetable)

This curriculum provides the student with a basic education in science and the humanities, and the application of both in the scientific, technical, and business phases of the fruit and vegetable industry.

Opportunities in this field of study include vegetable and fruit farm management; inspection of fresh fruit, vegetable and other food products as well as nursery stock. There are many other opportunities as in plant breeding, agricultural extension service work, horticultural research, horticultural teaching and writing, and fruit and vegetable processing. Other occupations include sales and field work with seedsmen and nurserymen, and manufacturers of food, fertilizer, and pesticide products.

Students majoring in the fruit and vegetable phase of Horticulture may choose from the *Science, Business,* or *Production Technology* options.

HORTICULTURE (Fruit and Vegetable) MAJOR

(See page 106 for *Freshman Year*)

SCIENCE OPTION

Sophomore Year

First Semester			*Second Semester*		
Agron 202 Soils	3	(2,3)	Chem 216 Quan. Analysis	5	(3,6)
Chem 321 Prin. of Org. Chem.	4	(3,3)	or Chem 322 Prin. of Org. Chem.	4	(3,3)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Econ 201 Principles of Econ.	3	(3,0)
Math 106 Freshman Math.	4	(3,2)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Phys 201 Gen. Physics	3	(3,0)	Hort 201 Gen. Horticulture	3	(2,3)
Phys 203 Gen. Physics Lab.	1	(0,3)	Phys 202 Gen. Physics	3	(3,0)
AS or MS — Basic	1	(2,1)	Phys 204 Gen. Physics Lab.	1	(0,3)
			AS or MS — Basic	1	(2,1)
	19			19 or 18	

Junior Year

Bact 301 Gen. Bacteriology	4	(3,3)	Agron 302 Genetics	3	(2,3)
Engl 301 Public Speaking	3	(3,0)	Bot 352 Plant Physiology	4	(3,3)
Hort 302 Prin. Veg. Prod.	3	(2,3)	Ent 301 Elem. and Econ. Ent.	3	(2,3)
Hort 305 Plant Propagation	3	(2,3)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Hort 352 Commercial Pomology	3	(2,3)	Social Science Elective*	3	
Approved Elective	3		Approved Elective	2 or 3	
	19			18 or 19	

Senior Year

Ag Ec 401 Statistics	3	(2,3)	Agron 405 Plant Breeding	3	(2,3)
Bot 401 Plant Pathology	3	(2,3)	Hort 410 Seminar	1	(1,0)
Hort 407 Landscape Design	3	(2,3)	Hort 468 Introd. to Research	2	(1,3)
Hort 409 Seminar	1	(1,0)	Approved Elective	10	
Hort 464 Food Preservation	3	(2,3)		16	
Approved Elective	5				
	18				

* To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

BUSINESS OPTION

Sophomore Year

First Semester			*Second Semester*		
Agron 202 Soils	3	(2,3)	Acct 201 Prin. of Accounting	3	(3,0)
Chem 220 Elem. Org. Chem.	4	(3,3)	Ag Ec 202 Agric. Economics	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Hort 201 Gen. Horticulture	3	(2,3)
IM 201 Introd. to Ind. Mgt.	3	(3,0)	Phys 201 Gen. Physics	3	(3,0)
AS or MS — Basic	1	(2,1)	Phys 203 Gen. Physics Lab.	1	(0,3)
	17		AS or MS — Basic	1	(2,1)
				17	

Junior Year

Bact 301 Gen. Bacteriology	4	(3,3)	Ag Ec 309 Introd. to Marketing	3	(3,0)
Engl 301 Public Speaking	3	(3,0)	Agron 302 Genetics	3	(2,3)
Dy Sc 351 Advertising and Merch.	3	(3,0)	Bot 352 Plant Physiology	4	(3,3)
Hort 302 Prin. Veg. Prod.	3	(2,3)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Hort 305 Plant Propagation	3	(2,3)	Ent 301 Elem. and Econ. Ent.	3	(2,3)
Hort 352 Commercial Pomology	3	(2,3)	Social Science Elective*	3	
	19			19	

Senior Year

Hort 407 Landscape Design	3	(2,3)	Bot 401 Plant Pathology	3	(2,3)
Hort 409 Seminar	1	(1,0)	Hort 410 Seminar	1	(1,0)
Hort 464 Food Preservation	3	(2,3)	Approved Electives†	14	
Approved Electives†	12			18	
	19				

* To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

† At least two of the following courses must be selected: Ag Ec 352, Ag Ec 456, Ag Ec 460, Econ 302, Econ 312, IM 302, IM 307.

PRODUCTION TECHNOLOGY OPTION

Sophomore Year

First Semester		*Second Semester*	
Agron 202 Soils	3 (2,3)	Ag Ec 202 Agric. Economics	3 (3,0)
Chem 220 Elem. Org. Chem.	4 (3,3)	AgE 206 Agric. Mechanization	3 (2,3)
Econ 201 Principles of Econ.	3 (3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Ent 301 Elem. and Econ. Ent.	3 (2,3)
Hort 201 Gen. Horticulture	3 (2,3)	Phys 201 Gen. Physics	3 (3,0)
AS or MS — Basic	1 (2,1)	Phys 203 Gen. Physics Lab.	1 (0,3)
	17	AS or MS — Basic	1 (2,1)
			17

Junior Year

Bact 301 Gen. Bacteriology	4 (3,3)	Ag Ec 302 Farm Management	3 (2,3)
Engl 301 Public Speaking	3 (3,0)	Agron 302 Genetics	3 (2,3)
Hort 302 Prin. Veg. Prod.	3 (2,3)	Bot 352 Plant Physiology	4 (3,3)
Hort 303 Plant Materials I	3 (2,3)	Gov 301 Am. Gov. and Pol. Par.	3 (3,0)
Hort 305 Plant Propagation	3 (2,3)	Social Science Elective*	3
Hort 352 Commercial Pomology	3 (2,3)	Approved Elective	3
	19		19

Senior Year

First Semester		*Second Semester*	
Bot 401 Plant Pathology	3 (2,3)	Agron 405 Plant Breeding	3 (2,3)
Hort 409 Seminar	1 (1,0)	Hort 308 Landscape Design	3 (2,3)
Hort 464 Food Preservation	3 (2,3)	Hort 410 Seminar	1 (1,0)
Approved Electives	12	Hort 451 Small Fruit Culture	3 (2,3)
		Hort 456 Truck Crops	3 (2,3)
	19	Approved Electives	5
			18

* To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

HORTICULTURE (Ornamental)

This curriculum is designed to give students a scientific background and technical facilities in the field of Ornamental Horticulture. Subject matter covers plant materials culture, uses, and planning of ground spaces.

Graduates find careers in nursery work, floriculture, landscape designing, landscape contracting, turf management, and park supervision. Other occupations are as research personnel, teachers, extension workers, and as representatives of fertilizer, machinery, and chemical companies.

Students desiring to major in Ornamental Horticulture may choose from the *Science*, *Business*, or *Production Technology* options.

HORTICULTURE (Ornamental) MAJOR

(See page 106 for *Freshman Year*)

SCIENCE OPTION

Sophomore Year

First Semester		*Second Semester*	
Agron 202 Soils	3 (2,3)	Chem 216 Quan. Analysis	5 (3,6)
Chem 321 Prin. of Org. Chem.	4 (3,3)	or Chem 322 Prin. of Org. Chem.	4 (3,3)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Econ 201 Principles of Econ.	3 (3,0)
Math 106 Freshman Math.	4 (3,2)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
Phys 201 Gen. Physics	3 (3,0)	Hort 201 Gen. Horticulture	3 (2,3)
Phys 203 Gen. Physics Lab.	1 (0,3)	Phys 202 Gen. Physics	3 (3,0)
AS or MS — Basic	1 (2,1)	Phys 204 Gen. Physics Lab.	1 (0,3)
	19	AS or MS — Basic	1 (2,1)
			19 or18

Junior Year

First Semester			*Second Semester*		
Bact 301 Gen. Bacteriology	4	(3,3)	Agron 302 Genetics	3	(2,3)
Engl 301 Public Speaking	3	(3,0)	Bot 352 Plant Physiology	4	(3,3)
Gov 301 Am. Gov. and Pol. Par.	3	(3,0)	Ent 301 Elem. and Econ. Ent.	3	(2,3)
Hort 302 Prin. Veg. Prod.	3	(2,3)	Hort 304 Plant Materials II	3	(2,3)
Hort 303 Plant Materials I	3	(2,3)	Hort 308 Landscape Design	3	(2,3)
Hort 305 Plant Propagation	3	(2,3)	Hort 310 Floriculture	3	(2,3)
	19			19	

Senior Year

First Semester			*Second Semester*		
Bot 401 Plant Pathology	3	(2,3)	Ag Ec 401 Statistics	3	(2,3)
Hort 352 Commercial Pomology	3	(2,3)	Bot 356 Taxonomy	3	(1,6)
Hort 409 Seminar	1	(1,0)	Hort 410 Seminar	1	(1,0)
Approved Electives	11		Hort 468 Introd. to Research	2	(1,3)
			Social Science Elective*	3	
	18		Approved Electives	3	or 4
				15	or 16

* To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

BUSINESS OPTION

Sophomore Year

First Semester			*Second Semester*		
Agron 202 Soils	3	(2,3)	Ag Ec 202 Agric. Economics	3	(3,0)
Chem 220 Elem. Org. Chem.	4	(3,3)	Acct 201 Prin. of Accounting	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Hort 201 Gen. Horticulture	3	(2,3)
IM 201 Introd. to Ind. Mgt.	3	(3,0)	Phys 201 Gen. Physics	3	(3,0)
AS or MS — Basic	1	(2,1)	Phys 203 Gen. Physics Lab.	1	(0,3)
	17		AS or MS — Basic	1	(2,1)
				17	

Junior Year

First Semester			*Second Semester*		
Agron 302 Genetics	3	(2,3)	Ag Ec 309 Introd. to Marketing	3	(3,0)
Bact 301 Gen. Bacteriology	4	(3,3)	Bot 352 Plant Physiology	4	(3,3)
Dy Sc 351 Advertising and Merch.	3	(3,0)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Engl 301 Public Speaking	3	(3,0)	Hort 304 Plant Materials II	3	(2,3)
Hort 303 Plant Materials I	3	(2,3)	Hort 308 Landscape Design	3	(2,3)
Hort 305 Plant Propagation	3	(2,3)	Hort 310 Floriculture	3	(2,3)
	19			19	

Senior Year

First Semester			*Second Semester*		
Bot 401 Plant Pathology	3	(2,3)	Hort 406 Nursery Technology	3	(2,3)
Hort 409 Seminar	1	(1,0)	Hort 410 Seminar	1	(1,0)
Approved Electives†	15		Social Science Elective*	3	
			Approved Electives†	11	
	19			18	

* To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

† At least two of the following courses must be selected: Ag Ec 352, Ag Ec 456, Ag Ec 460, Econ 302, Econ 312, IM 302, IM 307.

PRODUCTION TECHNOLOGY OPTION

Sophomore Year

First Semester			*Second Semester*		
Chem 220 Elem. Org. Chem.	4	(3,3)	Ag Ec 202 Agric. Economics	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	AgE 206 Agric. Mechanization	3	(2,3)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Agron 202 Soils	3	(2,3)
Ent 301 Elem. and Econ. Ent.	3	(2,3)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Hort 201 Gen. Horticulture	3	(2,3)	Phys 201 Gen. Physics	3	(3,0)
AS or MS — Basic	1	(2,1)	Phys 203 Gen. Physics Lab.	1	(0,3)
	17		AS or MS — Basic	1	(2,1)
				17	

JUNIOR YEAR

First Semester			*Second Semester*		
Bact 301 Gen. Bacteriology	4	(3,3)	Ag Ec 302 Farm Management	3	(2,3)
Engl 301 Public Speaking	3	(3,0)	Agron 302 Genetics	3	(2,3)
Gov 301 Am. Gov. and Pol. Par.	3	(3,0)	Bot 352 Plant Physiology	4	(3,3)
Hort 303 Plant Materials I	3	(2,3)	Hort 304 Plant Materials II	3	(2,3)
Hort 305 Plant Propagation	3	(2,3)	Hort 308 Landscape Design	3	(2,3)
Social Science Elective*	3		Hort 310 Floriculture	3	(2,3)
	19			19	

SENIOR YEAR

Bot 401 Plant Pathology	3	(2,3)	Agron 405 Plant Breeding	3	(2,3)
Hort 409 Seminar	1	(1,0)	Hort 406 Nursery Technology	3	(2,3)
Hort 412 Turf Management	3	(2,3)	Hort 410 Seminar	1	(1,0)
Hort 460 Adv. Landscape Design	5	(3,6)	Approved Electives	11	
Approved Electives	7				
	19			18	

* To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

POULTRY SCIENCE

The Poultry Science curriculum is designed to provide sound training in the basic disciplines within which the poultry industry operates. Technical poultry courses emphasize the application of basic principles to production, processing and marketing of poultry products. The curriculum is sufficiently flexible to permit a degree of specialization in the areas of pathology, nutrition, physiology, genetics, management or processing.

Graduates of the Poultry Science curriculum find employment as sales and servicemen with feed, drug and equipment manufacturers, extension agents and specialists, hatchery managers and poultry farm operators. The increased use of the chick as an experimental animal provides positions for graduates as researchers with pharmaceutical houses, chemical manufacturers, private laboratories, government research organizations, colleges and experiment stations. A strong research program conducted by the department provides opportunity for student participation in this challenging area. Many research and technical positions require training at the graduate level.

The growing size and increasing complexity of poultry industry organization has created a need for Poultry Science majors with training in business and communications.

A student may elect the *Science, Business* or *Production Technology* option.

POULTRY SCIENCE MAJOR

(See page 106 for *Freshman Year*)

SCIENCE OPTION

Sophomore Year

First Semester			*Second Semester*		
Chem 321 Prin. of Org. Chem.	4	(3,3)	Chem 322 Prin. of Org. Chem.	4	(3,3)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Econ 201 Principles of Econ.	3	(3,0)
Math 106 Freshman Math.	4	(3,2)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Phys 201 Gen. Physics	3	(3,0)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Phys 203 Gen. Physics Lab.	1	(0,3)	Phys 202 Gen. Physics	3	(3,0)
PS 201 Introd. to Poultry Sci.	3	(2,3)	Phys 204 Gen. Physics Lab.	1	(0,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	19			18	

Junior Year

First Semester			*Second Semester*		
AH 301 Feeds and Feeding	3	(3,0)	Agron 302 Genetics	3	(2,3)
Bact 301 Gen. Bacteriology	4	(3,3)	Engl 301 Public Speaking	3	(3,0)
Chem 216 Quan. Analysis	5	(3,6)	PS 352 Poultry Nutrition*	3	(2,3)
or Math 205 Calculus I	4	(3,2)	PS 354 Poultry Breeding*	3	(2,3)
PS 355 Poultry Grad. & Proc.*	3	(2,3)	Social Science Elective‡	3	
Zool 307 Animal Anat. & Physiol.	3	(2,3)	Modern Language§	3	
	18 or 17			18	

Senior Year

First Semester			*Second Semester*		
Dy Sc 403 Animal Nutrition	3	(3,0)	Ag Ec 401 Statistics	3	(2,3)
Bact 401 Adv. Bacteriology	4	(2,6)	or Math 303 Statistics	3	(3,0)
or Ent 301 Elem. and Econ. Ent.	3	(2,3)	Hort 468 Introd. to Research	2	(1,3)
or Ent 455 Med. & Vet. Ent.	3	(2,3)	PS 458 Poultry Dis. & Parasites†	3	(2,3)
or Zool 301 Compar. Vert. Anat.	3	(2,3)	PS 460 Seminar†	2	(2,0)
or Zool 405 Animal Histology	3	(2,3)	Approved Electives	7 — 9	
PS 457 Incubat. & Brooding†	3	(2,3)		17 — 19	
Modern Language§	3				
Approved Electives	6				
	18 or 19				

* To be taught in 1961-1962 and alternate years thereafter.
† To be taught in 1962-1963 and alternate years thereafter.
‡ To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.
§ Two semesters of same language selected from French, German, Russian, or Spanish.

BUSINESS OPTION

Sophomore Year

First Semester			*Second Semester*		
Agron 202 Soils	3	(2,3)	Acct 201 Prin. of Accounting	3	(3,0)
Chem 220 Elem. Org. Chem.	4	(3,3)	Ag Ec 202 Agric. Economics	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	AH 301 Feeds and Feeding	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	AH 303 Feeds and Feeding Lab.	1	(0,3)
IM 201 Introd. to Indus. Mgt.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
PS 201 Introd. to Poultry Sci.	3	(2,3)	Phys 201 Gen. Physics	3	(3,0)
AS or MS — Basic	1	(2,1)	Phys 203 Gen. Physics Lab.	1	(0,3)
	20		AS or MS — Basic	1	(2,1)
				18	

Junior Year

First Semester			*Second Semester*		
Ag Ec 309 Introd. to Marketing	3	(3,0)	Ag Ec 352 Public Finance	3	(3,0)
Agron 302 Genetics	3	(2,3)	or Ag Ec 460 Agric. Finance	2	(2,0)
Bact 301 Gen. Bacteriology	4	(3,3)	or Econ 302 Money & Banking	3	(3,0)
Dy Sc 201 Introd. Dairying	3	(2,3)	Econ 312 Commercial Law	3	(3,0)
Engl 301 Public Speaking	3	(3,0)	or IM 302 Industrial Mgt.	3	(3,0)
PS 355 Poultry Grad. & Proc.*	3	(2,3)	or IM 307 Personnel Mgt.	3	(3,0)
	19		Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
			PS 352 Poultry Nutrition*	3	(2,3)
			PS 354 Poultry Breeding*	3	(2,3)
			Social Science Elective‡	3	
				18 or 17	

* To be taught in 1961-1962 and alternate years thereafter.
‡ To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

Senior Year

First Semester		*Second Semester*	
Dy Sc 351 Advertising and Merch.	3 (3,0)	PS 458 Poultry Dis. & Parasites†	3 (2,3)
PS 457 Incubat. & Brooding†	3 (2,3)	PS 460 Seminar†	2 (2,0)
Approved Electives	11 or 12	Approved Electives	12
	17 or 18		17

† To be taught in 1962-1963 and alternate years thereafter.

PRODUCTION TECHNOLOGY OPTION

Sophomore Year

First Semester		*Second Semester*	
Agron 202 Soils	3 (2,3)	Ag Ec 202 Agric. Economics	3 (3,0)
Chem 220 Elem. Org. Chem.	4 (3,3)	AgE 206 Agric. Mechanization	3 (2,3)
Econ 201 Principles of Econ.	3 (3,0)	Dy Sc 201 Introd. Dairying	3 (2,3)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
PS 201 Introd. to Poultry Sci.	3 (2,3)	Phys 201 Gen. Physics	3 (3,0)
AS or MS — Basic	1 (2,1)	Phys 203 Gen. Physics Lab.	1 (0,3)
	17	AS or MS — Basic	1 (2,1)
			17

Junior Year

Agron 302 Genetics	3 (2,3)	Ag Ec 302 Farm Management	3 (2,3)
AH 301 Feeds and Feeding	3 (3,0)	Ent 301 Elem. and Econ. Ent.	3 (2,3)
AH 303 Feeds and Feeding Lab.	1 (0,3)	Gov 301 Am. Gov. and Pol. Par.	3 (3,0)
Bact 301 Gen. Bacteriology	4 (3,3)	PS 352 Poultry Nutrition*	3 (2,3)
Engl 301 Public Speaking	3 (3,0)	PS 354 Poultry Breeding*	3 (2,3)
PS 355 Poultry Grad. & Proc.*	3 (2,3)	Social Science Elective‡	3
Zool 307 Animal Anat. & Phys.	3 (2,3)		18
	20		

Senior Year

PS 457 Incubat. & Brooding†	3 (2,3)	PS 458 Poultry Dis. & Parasites†	3 (2,3)
Approved Electives	16	PS 460 Seminar†	2 (2,0)
	19	Approved Electives	13
			18

* To be taught in 1961-1962 and alternate years thereafter.
† To be taught in 1962-1963 and alternate years thereafter.
‡ To be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

AGRICULTURAL ENGINEERING *

Agricultural Engineering deals fundamentally with the application of the engineering sciences to the problems of agriculture. Agricultural engineers provide engineering services in the areas of power and machinery, soil and water conservation engineering, farm electrification, farm structures, and agricultural processing.

Opportunities in Agricultural Engineering include employment with industry as design engineers, research engineers, production engineers, and in sales and service; with state and federal agencies as teachers, research engineers, and extension engineers; as field engineers with soil conservation service, bureau of reclamation, etc.; with agricultural enterprises as managers, contractors, equipment retailers and consulting engineers. The Agricultural Engineering curriculum is accredited by the Engineers' Council for Professional Development.

* Jointly administered by the School of Agriculture and the School of Engineering.

AGRICULTURAL ENGINEERING MAJOR

Freshman Year

First Semester			*Second Semester*		
Chem 101 General Chemistry	4	(3,3)	Agr 101 Introd. to Agriculture	1	(1,0)
EG 107 Engr. Graphics	2	(0,6)	Chem 102 General Chemistry	4	(3,3)
Engl 101 English Composition	3	(3,0)	EG 108 Engr. Graphics	2	(0,6)
IE 101 Mfg. Processes	2	(0,6)	Engl 102 English Composition	3	(3,0)
or Hist 104 Western Civilization	3	(3,0)	Hist 104 Western Civilization	3	(3,0)
Math 105 Freshman Math.	4	(3,2)	or IE 101 Mfg. Processes	2	(0,6)
AS or MS — Basic	1	(2,1)	Math 106 Freshman Math.	4	(3,2)
			AS or MS — Basic	1	(2,1)
	16 or 17			18 or 17	

Sophomore Year

AgE 203 Agric. Engr. Prob.	1	(0,3)	Agron 102 Crop Science	3	(2,3)
AgE 207 Farm Mechanics	2	(1,3)	EM 302 Statics	3	(3,0)
Bot 101 General Botany	4	(3,3)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Math 206 Calculus II	4	(3,2)
Math 205 Calculus I	4	(3,2)	Phys 212 Gen. Phys. for Engr.	4	(4,0)
Phys 211 Gen. Phys. for Engr.	4	(4,0)	Phys 214 Gen. Phys. Lab.	1	(0,3)
Phys 213 Gen. Phys. Lab.	1	(0,3)	AS or MS — Basic	1	(2,1)
AS or MS — Basic	1	(2,1)			
	20			19	

Junior Year

AgE 311 Agric. Machinery	3	(2,3)	AgE 304 Farm Elect. Design	3	(2,3)
CE 200 Elem. Surveying	2	(1,3)	AgE 312 Agric. Tractor Power	3	(2,3)
EE 307 Basic Elect. Engr.	3	(3,0)	Agron 202 Soils	3	(2,3)
EE 309 Elect. Engr. Lab.	1	(0,3)	Econ 201 Principles of Econ.	3	(3,0)
EM 303 Dynamics	3	(3,0)	EM 304 Mech. of Materials	3	(3,0)
IE 201 Mfg. Processes	2	(1,3)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Math 306 Ord. Diff. Eqs.	3	(3,0)	ME 307 Mech. Engr. Lab.	1	(0,3)
ME 302 Elem. Thermodynamics	3	(3,0)			
	20			19	

Senior Year

AgE 401 Soil & Wat. Con. Engr.	3	(2,3)	AgE 402 Drain. and Irrigation	3	(2,3)
AgE 409 Seminar	1	(1,0)	AgE 406 Adv. Agric. Machinery	3	(2,3)
AgE 452 Farm Struct. Design	3	(2,3)	AgE 410 Seminar	1	(1,0)
EM 401 Fluid Mechanics	3	(3,0)	AgE 433 Agric. Proc. Engr.	3	(2,3)
EM 403 Fluid Mech. Lab.	1	(0,3)	Approved Electives	6	
Zool 308 Applied Zoology	2	(2,0)			
Approved Electives	3				
	16			16	

BIOLOGY

The Biology curriculum is designed to give the student fundamental training in the Biological Sciences. It is arranged to give him a broad background in the biological, physical, and social sciences and then in the junior and senior years to permit him to select an option for further study either in Botany or Zoology. The number of available elective credits is sufficient to permit a student to take work in related fields of basic science or in the various areas of applied Biology; or he may complete all requirements for certification by the State Department of Education if he wishes to teach in the secondary school system.

The Biology curriculum is designed to train students to teach biology in secondary schools or for employment as applied biologists in sales, service, or research in industry or government service. It is also suitable as a base for those students who desire to take further work at the graduate level and thus prepare themselves to teach or conduct independent research in the basic or applied biological sciences.

BIOLOGY MAJOR

Freshman Year

First Semester			Second Semester		
Bot 101 Gen. Botany	4	(3,3)	Agr 101 Introd. to Agriculture	1	(1,0)
Chem 103 Gen. Chemistry	4	(3,3)	Chem 104 Gen. Chemistry	3	(3,0)
EG 101 Freehand Sketching	1	(0,3)	Chem 106 Qual. Analysis	2	(0,6)
Engl 101 English Composition	3	(3,0)	Engl 102 English Composition	3	(3,0)
Math 105 Freshman Math.	4	(3,2)	Math 106 Freshman Math.	4	(3,2)
AS or MS — Basic	1	(2,1)	Zool 101 Gen. Zoology	3	(3,0)
			Zool 103 Gen. Zoology Lab.	1	(0,3)
	17		AS or MS — Basic	1	(2,1)
				18	

Sophomore Year

Econ 201 Principles of Econ.	3	(3,0)	Bot 356 Taxonomy	3	(1,6)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Phys 201 Gen. Physics	3	(3,0)	Phys 202 Gen. Physics	3	(3,0)
Phys 203 Gen. Physics Lab.	1	(0,3)	Phys 204 Gen. Physics Lab.	1	(0,3)
Zool 301 Vertebrate Anatomy	3	(2,3)	AS or MS — Basic	1	(2,1)
AS or MS — Basic	1	(2,1)	Social Science Elective*	3	
Approved Elective	4		Approved Elective	4	
	18			18	

* To be selected from the following courses: Ag Ec 202, Econ 202, Gov 101, Hist 104, Rel 301, Rel 302.

BOTANY OPTION

Junior Year

First Semester			Second Semester		
Bact 301 Gen. Bacteriology	4	(3,3)	Agron 302 Genetics	3	(2,3)
Bot 352 Plant Physiology	4	(3,3)	Chemistry Elective*	4	or 5
Engl 301 Public Speaking	3	(3,0)	Approved Electives†	12	or 11
Chemistry Elective*	4				
Approved Electives†	3			19	
	18				

Senior Year

Social Science Elective‡	3		Social Science Elective‡	3	
Approved Electives†	15		Approved Electives†	15	
	18			18	

* To be selected from the following courses: Chem 216, Chem 220, Chem 310, Chem 321, Chem 322. Either Chem 220 or Chem 321 must be included.

† Students enrolled in the Botany Option must select a minimum of 12 credits from the following courses: Bot 401, Bot 404, Bot 451, Bot 452, Bot 455, Bact 312, Bact 401, Bact 402, Bact 406, Bact 410, Zool 403, Zool 456, Zool 458.

Those students who plan to teach Biology in Secondary School must take the 27 credits in Professional Education, Art and Music Appreciation, and Health required by the South Carolina State Department of Education.

‡ At least 6 credits must be selected from the following courses: Ag Ec 202, Econ 202, Gov 301, Geog 301, Geog 302, Hist 301, Psych 301, Phil 301, Phil 302, RS 301, Soc 301. Within the 12 credits required in the Social Sciences at least two fields must be represented, with six but not more than six semester hours in one field. The remaining six hours may be in any one or any combination of the remaining fields.

ZOOLOGY OPTION

JUNIOR YEAR

First Semester			*Second Semester*		
Chem 321 Prin. of Org. Chem.	4	(3,3)	Bact 301 Gen. Bacteriology	4	(3,3)
Ent 301 Elem. & Econ. Ent.	3	(2,3)	Zool 302 Vertebrate Embryology	3	(2,3)
Zool 307 Animal Anat. & Phys.	3	(2,3)	Chemistry Elective†	4	or 5
Approved Electives*	9		Social Science Elective‡	3	
			Approved Electives*	4	or 3
	19			18	

SENIOR YEAR

First Semester			*Second Semester*		
Agron 302 Genetics	3	(2,3)	Social Science Elective‡	3	
Engl 301 Public Speaking	3	(3,0)	Approved Electives*	15	
Approved Electives*	12				
	18			18	

* All students enrolled in the Zoology Option must select a minimum of 6 credits from the following courses: Ent 455, Zool 304, Zool 403, Zool 404, Zool 405, Zool 456, Zool 458. Those students who plan to teach Biology in Secondary School must take the 27 credits in Professional Education, Art and Music Appreciation, and Health required by the South Carolina State Department of Education.

† To be selected from the following courses: Chem 216, Chem 310, Chem 322.

‡ At least 6 credits must be selected from the following courses: Ag Ec 202, Econ 202, Geog 301, Geog 302, Gov 301, Hist 301, Psych 301, Phil 301, Phil 302, RS 301, Soc 301. Within the 12 credits required in the Social Sciences at least two fields must be represented with six but not more than six semester hours in one field. The remaining six hours may be in any one or any combination of the remaining fields.

FOOD TECHNOLOGY

The curriculum in Food Technology is designed to give the student an education in the basic scientific principles upon which he may build a career of leadership in the food industry. There is a great demand for food technologists who are trained in this manner and who have inquiring minds, imagination, practical ideas, and persistence. They are needed in research and development, manufacturing and production, and technical sales. Technical training is becoming more and more a prerequisite to assumption of management responsibilities in the food industry and many of these activities can be steps to top management. The curriculum provides a sound basis for graduate study in several fields of specialization.

FOOD TECHNOLOGY MAJOR

FRESHMAN YEAR

First Semester			*Second Semester*		
Bot 101 Gen. Botany	4	(3,3)	Agr 101 Introd. to Agriculture	1	(1,0)
Chem 103 Gen. Chemistry	4	(3,3)	Chem 104 Gen. Chemistry	3	(3,0)
Engl 101 English Composition	3	(3,0)	Chem 106 Qual. Analysis	2	(0,6)
Math 105 Freshman Math.	4	(3,2)	Engl 102 English Composition	3	(3,0)
AS or MS Basic	1	(2,1)	Math 106 Freshman Math.	4	(3,2)
			Zool 101 General Zoology	3	(3,0)
	16		Zool 103 Gen. Zoology Lab.	1	(0,3)
			AS or MS – Basic	1	(2,1)
				18	

SOPHOMORE YEAR

First Semester			*Second Semester*		
Bact 301 Gen. Bacteriology	4	(3,3)	Chem 216 Quan. Analysis	5	(3,6)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Math 205 Calculus I	4	(3,2)	Math 206 Calculus II	4	(3,2)
Phys 211 Gen. Phys. for Engr.	4	(4,0)	Phys 212 Gen. Phys. for Engr.	4	(4,0)
Phys 213 Gen. Phys. Lab.	1	(0,3)	Phys 214 Gen. Phys. Lab.	1	(0,3)
AS or MS Basic	1	(2,1)	AS or MS – Basic	1	(2,1)
	17			18	

JUNIOR YEAR

First Semester			Second Semester		
Chem 321 Prin. of Org. Chem.	4	(3,3)	Bact 312 Food Microbiology	3	(2,3)
Chem 331 Physical Chem.	3	(3,0)	Chem 322 Prin. of Org. Chem.	4	(3,3)
Chem 339 Physical Chem. Lab.	1	(0,3)	Chem 332 Physical Chem.	3	(3,0)
Econ 201 Principles of Econ.	3	(3,0)	Chem 340 Physical Chem. Lab.	1	(0,3)
Engl 301 Public Speaking	3	(3,0)	FdT 302 Elements of Food Tech.	3	(3,0)
FdT 301 Raw Food Materials for Proc.	4	(3,3)	Approved Elective°	5	
	18			19	

SENIOR YEAR

First Semester			Second Semester		
Ag Ec 401 Statistics	3	(2,3)	ChE 305 Elements of Food Proc. En.	2	(1,3)
ChE 304 Elements of Food Process En.	3	(3,0)	FdT 404 Food Processing	3	(1,6)
Chem 423 Gen. Biochemistry	4	(3,3)	FdT 406 Biochem. of Food and Nutrition	3	(2,3)
FdT 401 Elements of Food Tech.	3	(3,0)	FdT 408 Prin. of Food Sanitation	2	(2,0)
FdT 403 Food Processing	3	(1,6)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Approved Elective°	3		Approved Electives°	6	
	19			19	

° At least three elective credits must be selected from the following courses: Hist 301, Psych 301, Soc 301.

FORESTRY

The Clemson Forestry curriculum includes the fundamental and applied sciences needed in the scientific management of multiple-use forests. Foresters of professional standing are employed in various capacities by private concerns or by federal, state, and other public agencies. They may be engaged as managers and administrators of forest lands, technical specialists in extension, fire protection, recreation, or in other activities presupposing professional forestry knowledge. Foresters earning advanced degrees find employment in academic work and in research conducted both by public and private agencies.

FORESTRY MAJOR

FRESHMAN YEAR

First Semester			Second Semester		
Bot 101 Gen. Botany	4	(3,3)	Agr 101 Introd. to Agr.	1	(1,0)
Chem 101 Gen. Chemistry	4	(3,3)	Chem 102 Gen. Chemistry	4	(3,3)
Engl 101 English Composition	3	(3,0)	EG 105 Engr. Graphics	2	(0,6)
Math 105 Freshman Math.	4	(3,2)	Engl 102 English Composition	3	(3,0)
AS or MS — Basic	1	(2,1)	Math 106 Freshman Math.	4	(3,2)
	16		Zool 101 Gen. Zoology	3	(3,0)
			Zool 103 Gen. Zoology Lab.	1	(0,3)
			AS or MS — Basic	1	(2,1)
				19	

SOPHOMORE YEAR

First Semester			Second Semester		
Agron 202 Soils	3	(2,3)	Bot 356 Taxonomy	3	(1,6)
CE 200 Elem. Surveying	2	(1,3)	CE 203 Topog. Surv. & Map.	1	(0,8)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
For 201 Intro. to Forestry	1	(1,0)	For 202 Dendrology	4	(3,3)
For 203 Silvics	2	(2,0)	Math 205 Calculus I	4	(3,2)
Geol 201 Physical Geol.	2	(2,0)	Phys 202 Gen. Physics	3	(3,0)
Geol 203 Physical Geol. Lab.	1	(0,3)	Phys 204 Gen. Physics Lab.	1	(0,3)
Phys 201 Gen. Physics	3	(3,0)	AS or MS — Basic	1	(2,1)
Phys 203 Gen. Physics Lab.	1	(0,3)		20	
AS or MS — Basic	1	(2,1)			
	19				

FORESTRY SUMMER CAMP

For 251S	Silvics	2 cr.
For 252S	Forest Engineering	2 cr.
For 253S	Dendrometry	4 cr.
For 254S	Forest Products	1 cr.

JUNIOR YEAR

Ag Ec 401 Statistics	3	(2,3)	Bot 352 Plant Physiology	4	(3,3)
Econ 201 Principles of Econ.	3	(3,0)	For 302 Dendrometry	3	(2,3)
Ent 307 Forest Entomology	3	(2,3)	For 304 Forest Economics	3	(3,0)
For 301 Aerial Forest Mapping	3	(2,3)	For 306 Wood Technology	1	(0,3)
For 303 Silviculture	4	(3,3)	Zool 312 Wildlife Management	3	(2,3)
Approved Electives*	3		Approved Electives	3	
	19			17	

SENIOR YEAR

Bot 405 Forest Pathology	3	(2,3)	Engl 301 Public Speaking	3	(3,0)
For 403 Forest Products	3	(2,3)	For 402 Logging and Milling	4	(2,6)
For 405 Forest Protection	2	(2,0)	For 404 Management Plans	1	(0,3)
For 407 Forest Regulation	4	(3,3)	For 406 For. Policy & Admin.	2	(2,0)
Gov 301 Am. Gov. and Pol. Par.	3	(3,0)	For 408 Forest Valuation	3	(3,0)
Approved Electives	3		Approved Electives	3	
	18			16	

* At least three credits must be selected from the following courses: Geog 301, Geog 302, Hist 301, Psych 301, RS 301, Soc 301.

PRE-VETERINARY MEDICINE

The curriculum in Pre-Veterinary Medicine is designed to meet the general requirements of certain Schools of Veterinary Medicine. Since the requirements for entrance to these schools are not uniform, the student in planning his program should consider the specific requirements of the school he expects to attend. Under the Southern Regional plan qualified students from South Carolina may enter the School of Veterinary Medicine at the University of Georgia. The Pre-Veterinary curriculum meets the entrance requirements of the School of Veterinary Medicine at the University of Georgia.

PRE-VETERINARY MEDICINE

FRESHMAN YEAR

First Semester			*Second Semester*		
Agr 101 Introd. to Agr.	1	(1,0)	AH 102 Animal Science	2	(2,0)
Chem 101 Gen. Chemistry	4	(3,3)	AH 104 Animal Sci. Lab.	1	(0,3)
Engl 101 English Composition	3	(3,0)	Bot 101 General Botany	4	(3,3)
Math 105 Freshman Math.	4	(3,2)	Chem 102 Gen. Chemistry	4	(3,3)
Zool 101 Gen. Zoology	3	(3,0)	Engl 102 English Composition	3	(3,0)
Zool 103 Gen. Zoology Lab.	1	(0,3)	Hist 101 American History	3	(3,0)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	17			18	

SOPHOMORE YEAR

Chem 220 Elem. Org. Chem.	4	(3,3)	AH 301 Feeds and Feeding	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Bot 401 Plant Pathology	3	(2,3)
Phys 201 Gen. Physics	3	(3,0)	Chem 310 Agric. Biochemistry	4	(3,3)
Phys 203 Gen. Physics Lab.	1	(0,3)	Dy Sc 201 Introd. Dairying	3	(2,3)
PS 201 Introd. to Poultry Sci.	3	(2,3)	Econ 201 Principles of Econ.	3	(3,0)
Zool 301 Comparative Vertebrate Anatomy	3	(2,3)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	18			20	

SCHOOL OF ARCHITECTURE

The School of Architecture has as its prime objective well-rounded professional education for architectural practice; and, secondarily, training for service in other areas of the building industry. Cultural courses in the visual arts are offered by the School to students in other disciplines.

The development of man's physical environment is the field of the architect, embracing fundamental consideration of function, structure and beauty. The scope of professional problems in architecture may vary in scale and complexity from the design of furniture to complex buildings and urban planning. To best serve society in a rapidly changing era, the architect should retain a progressive attitude, and must understand and employ the aesthetic and technological tools at his disposal. Because of the nature of the profession, emphasis in all aspects of the School program is on creativity and maintaining standards of high quality. A broad background in the social sciences is necessary to the architect as a servant of humanity, as is a thorough training in the various disciplines of the profession which is at once an art and a science.

Architectural design is the core-course of the Architectural curriculum, engaging an increasing amount of the student's time as he advances, and enabling him to employ creatively the knowledge gained in the theory courses.

The curriculum in Architecture is five years in length and leads to the professional degree, Bachelor of Architecture, with basic options in design and structures. It is accredited by the National Architectural Accrediting Board. The School of Architecture is a member of the Association of Collegiate Schools of Architecture.

The physical facilities of the School of Architecture are excellent, being located in a newly constructed architectural building, which is part of the Structural Science Complex. Arranged around a courtyard and a large exhibition gallery, the School has flexible north-lighted studios for work in design and adjunct arts. Shops, offices, classrooms, and studios are carefully interrelated and well equipped. The architectural library adjoins the design studios of the School and is regarded as a controlled working area. The collection includes books, periodicals, manuscripts slides, films and other visual aids, and is strengthened annually from purchases by the central College Library and through gifts and bequests.

Each year the regular class offerings of the School of Architecture are supplemented by a series of lectures by outstanding specialists in various areas of architecture, and the adjunct arts and sciences. Such visits vary in length from two days to a month. The Architectural Gallery presents exhibits in architecture, painting, sculpture, and allied arts and crafts. The Clemson Architectural Foundation was established to assist in providing the lecture and exhibition programs, as well as field trips, scholarship, and other aids to the professional education of architects.

ARCHITECTURE MAJOR

First Year

First Semester		*Second Semester*	
Arch 103 Arch. Computations	2 (2,0)	Arch 106 Visual Arts	2 (0,6)
Arch 105 Visual Arts	2 (0,6)	Arch 152 Arch. Design Course Group	5(0,15)
Arch 151 Basic Design Course Group	5(0,15)	CE 200 Elem. Surveying	2 (1,3)
Engl 101 English Composition	3 (3,0)	Engl 102 English Composition	3 (3,0)
Math 105 Freshman Math.	4 (3,2)	Math 106 Freshman Math.	4 (3,2)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
	17		17

Second Year

Arch 251 Arch. Design Course Group	6(0,18)	Arch 252 Arch. Design Course Group	6(0,18)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
Math 205 Calculus I	4 (3,2)	Math 206 Calculus II	4 (3,2)
Phys 211 Gen. Phys. for Engr.	4 (4,0)	Phys 202 Gen. Physics	3 (3,0)
Phys 213 Gen. Physics Lab.	1 (0,3)	Phys 204 Gen. Physics Lab.	1 (0,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
	19		18

Third Year

Arch 309 Arch. History I	2 (2,0)	Arch 310 Arch. History II	2 (2,0)
Arch 351 Arch. Design Course Group	7(0,21)	Arch 352 Arch. Design Course Group	7(0,21)
Chem 101 or 4 cr. Elective	4 (3,3)	EM 304 Mech. of Materials	3 (3,0)
EM 302 Statics	3 (3,0)	Electives	6
Electives	3		
	19		18

OPTION I

Fourth Year

First Semester		*Second Semester*	
Arch 413 Arch. History III	2 (2,0)	Arch 414 Arch. History IV	2 (2,0)
Arch 415 Structural Methods	2 (2,0)	Arch 452 Arch. Design Course Group	8(0,24)
Arch 451 Arch. Design Course Group	8(0,24)	Arch 476 Mechanical Plant	2 (2,0)
Arch 475 Mechanical Plant	2 (2,0)	CE 416 Structural Design	4 (3,3)
CE 308 Structural Analysis	4 (3,3)	Engl 301 Public Speaking	3 (3,0)
	18		19

Fifth Year

Arch 480 Office Practice	2 (2,0)	Arch 405 Visual Arts	2 (0,6)
Arch 491 Arch. & Town Plan. Design	11(5,18)	Arch 481 Office Practice	2 (2,0)
Electives	4	Arch 492 Arch. Thesis	11(5,18)
		Electives	3
	17		18

Each class adviser has an up-to-date list of approved electives giving suggested course sequences. Any exceptions to this list must be approved in writing by the Dean of the School.

OPTION II

FOURTH YEAR

First Semester			*Second Semester*		
Arch 413 Arch. History III	2	(2,0)	Arch 405 Visual Arts	2	(0,6)
Arch 415 Structural Methods	2	(2,0)	Arch 414 Arch. History IV	2	(2,0)
Arch 453 Adv. Arch. Construction	4	(1,9)	Arch 475 Mechanical Plant	2	(2,0)
Arch 475 Mechanical Plant	2	(2,0)	CE 407 Structural Design	4	(3,3)
CE 308 Structural Analysis	4	(3,3)	CE 414 Soil Mechanics	3	(2,3)
Geol 406 Engr. Geology	3	(2,3)	Engl 301 Public Speaking	3	(3,0)
			Electives	3	
	17			19	

FIFTH YEAR

Arch 480 Office Practice	2	(2,0)	Arch 481 Office Practice	2	(2,0)
Arch 493 Struct. Thesis Research	5	(0,15)	Arch 494 Arch. Struct. Thesis	11	(5,18)
CE 404 Concrete Structures	4	(3,3)	CE 452 Adv. Struct. Analysis	2	(2,0)
CE 420 Concrete Technology	1	(0,3)	Electives	3	
Electives	6				
	18			18	

Each class adviser has an up-to-date list of approved electives giving suggested course sequences. Any exceptions to this list must be approved in writing by the Dean of the School.

SCHOOL OF ARTS AND SCIENCES

In addition to acting as a service school to all other schools of the College by furnishing nearly all of the instruction in the humanities, the physical sciences, and the social sciences considered essential for a well-educated graduate, the School of Arts and Sciences offers six major curriculums leading to the degree of Bachelor of Science, which are as follows: Applied Mathematics, Arts and Sciences, Chemistry, Industrial Management, Physics, and Pre-Medicine. Furthermore, the School of Arts and Sciences offers programs leading to graduate degrees in several of these fields.

Students majoring in the School of Arts and Sciences should secure from the office of the Dean of the School of Arts and Sciences the *Handbook for Students Majoring in the School of Arts and Sciences*, the purpose of which is to provide information to students about posssible fields of concentration for Arts and Sciences curriculum majors and a list of approved electives for students majoring in the School.

APPLIED MATHEMATICS

The Applied Mathematics curriculum is designed to give basic training to those students who desire to become mathematicians in various fields, such as the design or operation of computers, automation, nuclear science, statistics, or any branch of the physical sciences in which a strong mathematical foundation is a prerequisite. It includes advanced courses in physics to acquaint the student with the use of fundamental mathematical laws in this area, which in turn are applied in various scientific fields.

This curriculum provides more than the minimum training in mathematics required for entrance into most graduate schools.

APPLIED MATHEMATICS MAJOR

Freshman Year

First Semester			*Second Semester*		
Chem 101 Gen. Chemistry	4	(3,3)	Chem 102 Gen. Chemistry	4	(3,3)
Engl 101 English Composition	3	(3,0)	or Chem 104 Gen. Chemistry	3	(3,0)
Fr 101 Elem. French	3	(3,0)	and Chem 106 Qual. Anal.	2	(0,6)
or Ger 101 Elem. German	3	(3,0)	Engl 102 English Composition	3	(3,0)
Hist 101 American History	3	(3,0)	Fr 102 Elem. French	3	(3,0)
Math 105 Freshman Math.	4	(3,2)	or Ger 102 Elem. German	3	(3,0)
AS or MS — Basic	1	(2,1)	Hist 102 American History	3	(3,0)
	18		Math 106 Freshman Math.	4	(3,2)
			AS or MS — Basic	1	(2,1)
				18 or 19	

Sophomore Year

Econ 201 Principles of Econ.	3	(3,0)	Econ 202 Prin. of Economics	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Fr 201 Intermediate French	3	(3,0)	Fr 202 Intermediate French	3	(3,0)
or Ger 201 Inter. German	3	(3,0)	or Ger 202 Inter. German	3	(3,0)
Math 205 Calculus I	4	(3,2)	Math 206 Calculus II	4	(3,2)
Phys 211 Gen. Phys. for Engr.	4	(4,0)	Phys 212 Gen. Phys. for Engr.	4	(4,0)
Phys 213 Gen. Physics Lab.	1	(0,3)	Phys 214 Gen. Phys. Lab.	1	(0,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	19			19	

Junior Year

Engl 301 Public Speaking	3	(3,0)	Hist 304 Hist. of Civil.	3	(3,0)
Hist 303 Hist. of Civil.	3	(3,0)	Math 451 Vector Anal.	3	(3,0)
Math 302 Theory of Equations	3	(3,0)	Phys 321 Mechanics	3	(3,0)
Math 306 Diff. Equations	3	(3,0)	Phys 323 Exp. Mechanics	1	(0,3)
Math 311 Intro. Mod. Algebra	3	(3,0)	Phys 341 Elec. and Mag.	3	(3,0)
Elective	3		Elective	4	
	18			17	

Senior Year

Math 403 Math. Statistics	3	(3,0)	Math 309 Theory of Approx.	3	(2,3)
Math 453 Adv. Calculus	3	(3,0)	Math 404 Math. Statistics	3	(3,0)
Phys 343 Elec. Measurements	2	(1,3)	Math 454 Adv. Calculus	3	(3,0)
Phys 351 Mod. Physics	3	(3,0)	Elective	8 or 7	
Phys 353 Exp. Mod. Physics	1	(0,3)		17 or 16	
Phys 441 Electromagnetism	3	(3,0)			
Elective	3				
	18				

ARTS AND SCIENCES

The curriculum in Arts and Sciences is planned to meet the needs of those students who desire a broad, general education as a preparation for intelligent citizenship and for vocational efficiency and for those who desire to teach in the secondary schools. The first two years are spent in introductory work in various fields, in order to give the student breadth of view and to enable him to take a more intelligent part in his own education. During the last two years the student concentrates in selected fields. This curriculum provides an excellent background for pre-law students.

ARTS AND SCIENCES MAJOR

Freshman Year

First Semester			*Second Semester*		
Chem 101 Gen. Chemistry	4	(3,3)	Chem 102 Gen. Chemistry	4	(3,3)
Engl 101 English Composition	3	(3,0)	Engl 102 English Composition	3	(3,0)
Hist 101 American History	3	(3,0)	Hist 102 American History	3	(3,0)
Math 105 Freshman Math.	4	(3,2)	Math 106 Freshman Math.	4	(3,2)
Modern Language	3	(3,0)	Modern Language	3	(3,0)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	18			18	

Sophomore Year

First Semester			*Second Semester*		
Bot 101 Gen. Botany*	4	(3,3)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Modern Language	3	(3,0)
Modern Language	3	(3,0)	Phys 202 Gen. Physics	3	(3,0)
Phys 201 Gen. Physics	3	(3,0)	Phys 204 Gen. Physics Lab.	1	(0,3)
Phys 203 Gen. Physics Lab.	1	(0,3)	Zool 101 General Zoology*	3	(3,0)
AS or MS — Basic	1	(2,1)	Zool 103 Gen. Zoology Lab.*	1	(0,3)
Approved Elective	3		AS or MS — Basic	1	(2,1)
			Approved Elective	3	
	18			18	

Junior Year

Engl 301 Public Speaking	3	(3,0)	Approved Electives	18	
Approved Electives	15				
	18			18	

Senior Year

Approved Electives	18	Approved Electives	18
	18		18

* Students who elect Chemistry, Mathematics, or Physics for one of their fields of concentration shall take Math 205 and 206 and may elect Phys 211, 213 and 212, 214 instead of Phys 201, 203 and 202, 204 during their sophomore year, postponing until their junior year Botany and Zoology, which are required for graduation.

Supplementary Requirements

(1) Before the registration date beginning his junior year, the student shall select two of the fields of study in the curriculum in Arts and Sciences as fields of concentration. These may be selected from Economics, Education (minor only), English, History, Mathematics, Physics, Modern Languages, Chemistry, Geology, or Sociology (minor only).

(2) A minimum of 24 hours shall be taken in the primary field of concentration and 15 hours in the secondary field. This work shall be on the junior-senior level except that Math 205 and 206 may be used as part fulfillment of this requirement by a student whose field of concentration is Mathematics, and in the Modern Languages concentration, sophomore courses are allowed.

(3) Besides the courses in the primary and secondary fields of concentration, a minimum of 12 additional approved elective hours shall be taken in courses of junior-senior level.

(4) The remainder of the elective work may be taken from the list of approved electives.

(5) Students majoring in Arts and Sciences who desire to teach in the public schools may fulfill the requirements for the secondary field of concentration by taking the 18 hours of Education required by the State Board of Education and certain specified electives.

(6) For graduation in Arts and Sciences at least the second year of one foreign language must be completed in college.

(7) The total number of hours required for graduation is 144. Students enrolled in the advanced ROTC program may use 6 semester hours of advanced military in this total.

For lists of subjects in fields of concentration, for list of approved electives, and for further information the student should consult the *Handbook for Students Majoring in the School of Arts and Sciences.*

CHEMISTRY

The Chemistry curriculum is designed to give the student a thorough knowledge of the fundamental principles of chemistry. The course is so arranged that each student takes approximately the same number of hours of work in each of the four fundamental branches of chemistry—Inorganic, Analytical, Organic and Physical. Additional work may be scheduled in any of these fields in which the student is particularly interested. The number of allowable elective credits is great enough to enable the student to take work in related fields, such as engineering, textile chemistry, physics, bacteriology, etc. Graduates of the Chemistry curriculum are prepared for employment in any of the chemical industries in laboratory, plant control or sales work, as well as in Experiment Stations. Many of our graduates go to other institutions for graduate work and the number of our Chemistry graduates who have obtained graduate degrees is impressive. These men are well distributed through industry and research institutions. The Chemistry Department is fully accredited by the American Chemical Society.

CHEMISTRY MAJOR

First Semester			*Second Semester*		
Freshman Year					
Chem 103 Gen. Chemistry	4	(3,3)	Chem 104 Gen. Chemistry	3	(3,0)
Engl 101 English Composition	3	(3,0)	Chem 106 Qualitative Analysis	2	(0,6)
Ger 101 Elementary German	3	(3,0)	Engl 102 English Composition	3	(3,0)
Hist 101 American History	3	(3,0)	Ger 102 Elem. German	3	(3,0)
Math 105 Freshman Math.	4	(3,2)	Math 106 Freshman Math.	4	(3,2)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
			Approved Elective*	3	(3,0)
	18			19	
Sophomore Year					
Chem 219 Chemical Principles	2	(2,0)	Chem 216 Quan. Analysis	5	(3,6)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Math 205 Calculus I	4	(3,2)	Math 206 Calculus II	4	(3,2)
Phys 211 Gen. Phys. for Engr.	4	(4,0)	Phys 212 Gen. Phys. for Engr.	4	(4,0)
Phys 213 Gen. Physics Lab.	1	(0,3)	Phys 214 Gen. Phys. Lab.	1	(0,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
Approved Elective*	3				
	18			18	
Junior Year					
Chem 323 Prin. of Org. Chem.	5	(3,6)	Chem 324 Prin. of Org. Chem.	5	(3,6)
Chem 331 Physical Chemistry	3	(3,0)	Chem 332 Physical Chem.	3	(3,0)
Chem 333 Phys. Chem. Lab.	2	(0,6)	Chem 334 Phys. Chem. Lab.	2	(0,6)
Engl 301 Public Speaking	3	(3,0)	Chem 442 Chem. Literature	2	(1,3)
Approved Electives*	5		Approved Electives*	6	
	18			18	

* Electives:
For the degree of B.S. in Chemistry, a student must elect at least 18 hours in English, History, Government, Economics, Sociology, Psychology, etc.

SENIOR YEAR

First Semester			Second Semester		
Chem 411 Instr. Analysis	4	(2,6)	Chem 402 Inorg. Chem.	3	(3,0)
Approved Electives*	14		Approved Electives*	14	
	18			17	

* Electives:
For the degree of B.S. in Chemistry, a student must elect at least 18 hours in English, History, Government, Economics, Sociology, Psychology, etc.

INDUSTRIAL MANAGEMENT

The curriculum in Industrial Management is offered for those students who plan to follow a career associated with industry or business. The curriculum constitutes a program of basic professional education designed to prepare students for eventual managerial and administrative positions in manufacturing and commerce, or careers in the general field of business. In keeping with the increasing demands by industry for students equipped with a well-rounded education, during the first two years, training in the humanities, social, and physical sciences is emphasized. During the junior and senior years the student concentrates on various basic engineering, business, economic, and technical courses designed to furnish a balanced curriculum for those entering the fields of business or industry.

INDUSTRIAL MANAGEMENT MAJOR

FRESHMAN YEAR

First Semester			Second Semester		
Chem 101 General Chemistry	4	(3,3)	Chem 102 Gen. Chemistry	4	(3,3)
EG 105 Engr. Graphics	2	(0,6)	EG 106 Engr. Graphics	2	(0,6)
Engl 101 English Composition	3	(3,0)	Engl 102 English Composition	3	(3,0)
Hist 101 American History	3	(3,0)	Hist 102 American History	3	(3,0)
Math 105 Freshman Math.	4	(3,2)	Math 106 Freshman Math.	4	(3,2)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	17			17	

SOPHOMORE YEAR

Acct 201 Prin. of Accounting	3	(3,0)	Acct 202 Prin. of Accounting	3	(3,0)
Econ 201 Prin. of Economics	3	(3,0)	Econ 202 Prin. of Economics	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
IM 201 Introd. to Ind. Mgt.	3	(3,0)	Gov 301 Amer. Govt.	3	(3,0)
Math 200 Introd. to Calculus	3	(3,0)	IE 101 Mfg. Processes	2	(0,6)
Phys 201 Gen. Physics	3	(3,0)	Phys 202 Gen. Physics	3	(3,0)
Phys 203 Gen. Physics Lab.	1	(0,3)	Phys 204 Gen. Physics Lab.	1	(0,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	20			19	

JUNIOR YEAR

EE 303 Introd. to Elec. Engr.	4	(3,3)	Econ 314 Inter. Econ. Theory	3	(3,0)
IE 307 Survey of Engr.	3	(3,0)	Engl 401 Adv. Composition	3	(3,0)
IM 301 Cost Accounting	3	(3,0)	IM 302 Ind. Management	3	(3,0)
Math 303 Statistics	3	(3,0)	IM 304 Quality Control	3	(3,0)
Psych 301 General Psychology	3	(3,0)	Soc 301 Intro. Sociology	3	(3,0)
Approved Elective	3		Approved Elective	3	
	19			18	

Senior Year

First Semester			*Second Semester*		
Econ 312 Commercial Law	3	(3,0)	IE 305 Work Simplif. & Stand.	3	(3,0)
Engl 301 Public Speaking	3	(3,0)	IM 404 Managerial Econ.	3	(3,0)
IE 303 Job Eval. & Wage Incent.	3	(3,0)	IM 407 Special Problems	1	(1,0)
IM 402 Prod. Plan. & Control	3	(3,0)	Soc 405 Industrial Soc.	3	(3,0)
Approved Electives	6		Approved Electives	6	
	18			16	

Approved Electives

During the junior and senior years the student is required to select a total of 12 semester hours from *one* of the following course options for the purpose of emphasizing a particular phase of the training.

The student must select an additional 6 semester hours of elective courses approved by the Class Adviser and the Dean of the School of Arts and Sciences. Students enrolled in the advanced ROTC program may use 6 semester hours of advanced military courses to meet this requirement.

OPTION I. Textiles

Twelve semester hours of textile courses approved by the textile adviser for Industrial Management.

OPTION II. Agricultural Economics

Ag Ec 309 Intro. to Marketing	3	(3,0)
Ag Ec 451 Agric. Cooperation	2	(2,0)
Ag Ec 452 Agricultural Policy	3	(3,0)
Ag Ec 456 Prices	3	(3,0)
Ag Ec 460 Agricultural Finance	2	(2,0)
Ag Ec 462 Applied Statistics	3	(2,3)
Dy Sc 351 Advertising & Mdsg.	3	(3,0)

OPTION III. Management and Economics

Ag Ec 352 Public Finance	3	(3,0)
Ag Ec 456 Prices	3	(3,0)
Ag Ec 462 Applied Statistics	3	(2,3)
Econ 301 Labor Problems	3	(3,0)
Econ 302 Money and Banking	3	(3,0)
Econ 313 Continuation Econ 312-Commercial Law	3	(3,0)
Econ 412 International Trade	3	(3,0)
Hist 406 Amer. Econ. Develop.	3	(3,0)
IM 305 Income Taxation	3	(3,0)
IM 306 Corporation Finance	3	(3,0)
IM 307 Personnel Management	3	(3,0)
IM 308 Marketing	3	(3,0)
IM 405 Economics of Trans.	3	(3,0)
IM 406 Theory of Indus. Location	3	(3,0)

OPTION IV. Foreign Language

Completion of 12 hours of the same foreign language: French, German, Spanish, or Russian.

OPTION V. Chemistry

Twelve semester hours of Chemistry courses other than Chem 101, Chem 102, 104, or 106, approved by the Department of Chemistry.

PHYSICS

The curriculum in Physics is intended to give a thorough knowledge of the fundamental principles of physics. This course combines sound theoretical training and extensive laboratory practices in the various branches of physics with considerable work in one related field such as Chemistry or Electrical Engineering. The student is required to take at least two advanced mathematics courses; other technical courses may be taken as electives if desired. On completing this curriculum the student should be prepared to enter research in an industrial or government laboratory; the curriculum also provides an excellent background for advanced work in the field of nuclear science, or for graduate work in Physics.

PHYSICS MAJOR

Freshman Year

First Semester		Second Semester	
Chem 103 General Chemistry	4 (3,3)	Chem 104 Gen. Chemistry	3 (3,0)
EG 105 Engr. Graphics	2 (0,6)	Chem 106 Qual. Analysis	2 (0,6)
Engl 101 English Composition	3 (3,0)	Engl 102 English Composition	3 (3,0)
Ger 101 Elementary German†	3 (3,0)	Ger 102 Elementary German†	3 (3,0)
Math 105 Freshman Math.	4 (3,2)	Math 106 Freshman Math.	4 (3,2)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
		Approved Elective	3
	17		19

Sophomore Year

First Semester		Second Semester	
Engl 203 Survey of Engl. Lit.	3 (3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
Math 205 Calculus I	4 (3,2)	Math 206 Calculus II	4 (3,2)
Phys 211 Gen. Phys. for Engr.	4 (4,0)	Phys 212 Gen. Phys. for Engr.	4 (4,0)
Phys 213 Gen. Physics Lab.	1 (0,3)	Phys 214 Gen. Phys. Lab.	1 (0,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
Approved Elective	3	Approved Elective	6
	16		19

Junior Year

First Semester		Second Semester	
Hist 304 Hist. of Civ.	3 (3,0)	Math (as approved)	3
or Engl 301 Public Speaking	3 (3,0)	Phys 341 Elect. and Magnetism	3 (3,0)
Math 306 Ord. Diff. Equations	3 (3,0)	Phys 343 Elect. Measurements	2 (1,3)
Phys 321 Mechanics I	3 (3,0)	Phys 351 Intro. to Mod. Phys.	3 (3,0)
Phys 323 Mechanics Lab.	1 (0,3)	Phys 353 Modern Phys. Lab.	1 (0,3)
Phys 332 Light	3 (3,0)	Approved Electives	6
Approved Electives	6		
	19		18

Senior Year

First Semester		Second Semester	
EE 320 Electronics I*	3 (3,0)	Phys 432 Physical Optics	3 (3,0)
EE 322 Electronics I Lab.	1 (0,3)	Phys 434 Optics Lab.	1 (0,3)
Phys 421 Mechanics II	3 (3,0)	Phys 455 Modern Physics II	3 (3,0)
Phys 441 Elect. and Magn.	3 (3,0)	Phys 465 Heat and Thermo.	4 (4,0)
Approved Electives	9	Approved Electives	6
	19		17

* Note: A student may take four of the courses: Chem 216, 219, 323, 324, 331, 332 instead of the electrical engineering courses.

† French 101, 102 or Russian 101, 102 may be substituted for German 101, 102.

PRE-MEDICINE

The curriculum in Pre-Medicine is designed to meet the general entrance requirements of standard medical colleges. Since, however, requirements for entrance to various medical schools are not uniform, the student before choosing his electives should consult the specific requirements of the medical college of his preference.

Those preparing for the study of medicine are advised to complete four years of undergraduate work before entering a medical school, although some medical colleges will accept a student after three years of Pre-Medicine.

The total number of hours required for graduation is 144. Students enrolled in the advanced ROTC program may use 6 semester hours of advanced military courses in this total.

Students preparing for the study of dentistry find this curriculum appropriate for the purpose. If a student plans to complete his pre-dental work in two years, slight rearrangement in the sequence of chemistry courses is necessary and is permitted.

PRE-MEDICINE MAJOR

Freshman Year

First Semester			*Second Semester*		
Chem 103 General Chemistry	4	(3,3)	Chem 104 Gen. Chemistry	3	(3,0)
Engl 101 English Composition	3	(3,0)	Chem 106 Qual. Analysis	2	(0,6)
Fr 101 Elementary French	3	(3,0)	Engl 102 English Composition	3	(3,0)
or Ger 101 Elem. German	3	(3,0)	Fr 102 Elementary French	3	(3,0)
or Russ 101 Elem. Russian	3	(3,0)	or Ger 102 Elem. German	3	(3,0)
Hist 101 American History	3	(3,0)	or Russ 102 Elem. Russian	3	(3,0)
Math 105 Freshman Math.	4	(3,2)	Math 106 Freshman Math.	4	(3,2)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
			Approved Elective	3	
	18			19	

Sophomore Year

Econ 201 Prin. of Economics	3	(3,0)	Bot 101 General Botany	4	(3,3)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Chem 216 Quan. Analysis	5	(3,6)
Fr 201 Intermediate French	3	(3,0)	Econ 202 Prin. of Econ.	3	(3,0)
or Ger 201 Intermediate Ger.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
or Russ 201 Intermediate Russ.	3	(3,0)	Fr 202 Intermediate French	3	(3,0)
Hist 102 American History	3	(3,0)	or Ger 202 Inter. German	3	(3,0)
Zool 101 General Zoology	3	(3,0)	or Russ 202 Inter. Russian	3	(3,0)
Zool 103 Gen. Zool. Lab.	1	(0,3)	AS or MS — Basic	1	(2,1)
AS or MS — Basic	1	(2,1)			
	17			19	

Junior Year

Chem 321 Prin. of Org. Chem.	4	(3,3)	Bact 301 Gen. Bacteriology	4	(3,3)
Engl 301 Public Speaking	3	(3,0)	Chem 322 Prin. of Org. Chem.	4	(3,3)
Phys 201 Gen. Physics	3	(3,0)	Phys 202 Gen. Physics	3	(3,0)
Phys 203 Gen. Physics Lab.	1	(0,3)	Phys 204 Gen. Physics Lab.	1	(0,3)
Approved Electives	6		Approved Electives	6	
	17			18	

Senior Year

Hist 303 Hist. of Civ.	3	(3,0)	Hist 304 Hist. of Civ.	3	(3,0)
Psych 301 Gen. Psychology	3	(3,0)	Psych 302 Social Psychology	3	(3,0)
Soc 301 Intro. Sociology	3	(3,0)	Zool 302 Vertebrate Embryology	3	(2,3)
Zool 301 Comp. Vert. Anat.	3	(2,3)	Approved Electives	9	
Approved Electives	6				
	18			18	

SCHOOL OF ENGINEERING

Eight curriculums are offered under the School of Engineering: Agricultural Engineering, Ceramic Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Industrial Education, Industrial Engineering, and Mechanical Engineering. The curriculums in Agricultural, Ceramic, Chemical, Civil, Electrical, and Mechanical Engineering are accredited by the Engineers' Council for Professional Development. The curriculum in Agricultural Engineering is jointly administered by the School of Engineering and the School of Agriculture.

Although the School of Engineering does not offer specific options or majors under each of these curriculums, the training includes many phases of each respective field. Thus, a Civil Engineering student is graduated in Civil Engineering rather than hydraulic engineering, highway engineering, sanitary engineering or other such options but the curriculum in Civil Engineering includes definite training along these lines. In the same way, the other engineering curriculums include thorough training in various phases of the field of specialization without over-emphasizing one phase to the neglect of others.

All engineering consists of the application of the laws of physics, chemistry, and mathematics to the solution of specific problems. Furthermore, any engineer must be able to express his ideas both in words and in drawings. For these two reasons the first two years of all the branches of Engineering here listed are substantially the same and deal largely with the fundamentals mentioned above.

Very few materials in nature are in such a geometrical form or condition that they can be used by the engineer for transmitting or resisting forces without conversion into a desired form or condition. There are many conversion processes available to the engineer. Since each has its specific quality, cost, and availability parameters, the engineer must have a sound grasp of the characteristics of diverse processes. Without this knowledge his work can neither be creative nor meet the requirements imposed by the competitive economic system. For this reason courses concerned with production (conversion) processes are included in all curriculums even though a quantitative study of the fundamentals underlying these processes may not be a primary objective of a particular curriculum.

In all curriculums, over-specialization is carefully avoided by the inclusion of subjects which involve the most direct application of the basic sciences and which serve to develop habits of orderly analysis and logical thinking.

The work required in all Engineering curriculums for the freshman year is as follows except as noted:

FRESHMAN YEAR

First Semester			*Second Semester* ‡		
Chem 101 General Chemistry*	4	(3,3)	Chem 102 Gen. Chemistry†	4	(3,3)
EG 107 Engr. Graphics	2	(0,6)	EG 108 Engr. Graphics	2	(0,6)
Engl 101 English Composition	3	(3,0)	Engl 102 English Composition	3	(3,0)
IE 101 Mfg. Processes	2	(0,6)	Hist 104 Western Civilization	3	(3,0)
or Hist 104 Western Civ.	3	(3,0)	or IE 101 Mfg. Processes	2	(0,6)
Math 105 Freshman Math.	4	(3,2)	Math 106 Freshman Math.	4	(3,2)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	16 or 17			17 or 16	

* Students planning to take Ceramic or Chemical Engineering take Chem 103, General Chemistry, in place of Chem 101 in the first semester.

‡ Agricultural Engineering students take Agr 101, Introduction to Agriculture, in addition to other courses in the second semester.

† Students planning to take Ceramic or Chemical Engineering take Chem 104, General Chemistry, and Chem 106, Qualitative Analysis, in place of Chem 102 in the second semester.

AGRICULTURAL ENGINEERING

The Agricultural Engineering curriculum is jointly administered by the School of Agriculture and the School of Engineering.

Agricultural Engineering deals fundamentally with the application of the engineering sciences to the problems of agriculture. Agricultural engineers provide engineering services in the areas of power and machinery, soil and water conservation engineering, farm electrification, farm structures, and agricultural processing.

Opportunities in Agricultural Engineering include employment with industry as design engineers, research engineers, production engineers, and in sales and service; with state and federal agencies as teachers, research engineers, and extension engineers; as field engineers with soil conservation service, bureau of reclamation, etc.; with agricultural enterprises as managers, contractors, equipment retailers and consulting engineers. The Agricultural Engineering curriculum is accredited by the Engineers' Council for Professional Development.

AGRICULTURAL ENGINEERING MAJOR

(See page 138 for *Freshman Year*)

Sophomore Year

First Semester			*Second Semester*		
AgE 203 Agric. Engr. Prob.	1	(0,3)	Agron 102 Crop Science	3	(2,3)
AgE 207 Farm Mechanics	2	(1,3)	EM 302 Statics	3	(3,0)
Bot 101 General Botany	4	(3,3)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Math 206 Calculus II	4	(3,2)
Math 205 Calculus I	4	(3,2)	Phys 212 Gen. Phys. for Engr.	4	(4,0)
Phys 211 Gen. Phys. for Engr.	4	(4,0)	Phys 214 Gen. Phys. Lab.	1	(0,3)
Phys 213 Gen. Physics Lab.	1	(0,3)	AS or MS — Basic	1	(2,1)
AS or MS — Basic	1	(2,1)			
	20			19	

Junior Year

AgE 311 Agric. Machinery	3	(2,3)	AgE 304 Farm Elect. Design	3	(2,3)
CE 200 Elem. Surveying	2	(1,3)	AgE 312 Agric. Tractor Power	3	(2,3)
EE 307 Basic Elect. Engr.	3	(3,0)	Agron 202 Soils	3	(2,3)
EE 309 Elect. Engr. Lab.	1	(0,3)	Econ 201 Principles of Econ.	3	(3,0)
EM 303 Dynamics	3	(3,0)	EM 304 Mech. of Materials	3	(3,0)
IE 201 Mfg. Processes	2	(1,3)	Gov 301 Am. Gov. and Pol. Par.	3	(3,0)
Math 306 Ord. Diff. Eqs.	3	(3,0)	ME 307 Mech. Engr. Lab.	1	(0,3)
ME 302 Elem. Thermodynamics	3	(3,0)		19	
	20				

Senior Year

AgE 401 Soil & Wat. Cons. Engr.	3	(2,3)	AgE 402 Drain. and Irrigation	3	(2,3)
AgE 409 Seminar	1	(1,0)	AgE 406 Adv. Agric. Machinery	3	(2,3)
AgE 452 Farm Struct. Design	3	(2,3)	AgE 410 Seminar	1	(1,0)
EM 401 Fluid Mechanics	3	(3,0)	AgE 433 Agric. Proc. Engr.	3	(2,3)
EM 403 Fluid Mech. Lab.	1	(0,3)	Approved Electives	6	
Zool 308 Applied Zoology	2	(2,0)		16	
Approved Electives	3				
	16				

CERAMIC ENGINEERING

The ceramic industries have as their raw materials the nonmetallic minerals other than fuel. These minerals constitute over 90 per cent of the earth's crust while the industries dependent on them comprise almost one-third the entire field of industrial activity. Ceramic industries produce products in eight major classifications: structural clay products; glass whitewares; refractories; abrasives; cements; limes and plaster; enameled metals; and raw material processing.

South Carolina possesses a wide variety of ceramic minerals which rank with forests as the richest natural resources in the State and make it possible for South Carolina to contribute raw materials to every major classification of the ceramic industry. South Carolina has a diversified ceramic industry with plants manufacturing portland cement, glass containers, glass fibers, sewer pipes, brick, refractories, special raw materials, and whitewares. The growth of these industries and the development of new ones is to a large measure dependent on the availability of trained engineers capable of incorporating and operating the modern techniques and equipment of the ceramic industries.

The curriculum of Ceramic Engineering leads to the degree of Bachelor of Science in Ceramic Engineering, and graduate courses are offered leading to advanced degrees. The course is based on a study of the fundamental courses in chemistry, physics, mathematics, and geology, and advanced courses are designed to apply these fundamental sciences to Ceramic Engineering. The Ceramic Engineering student receives basic training in general engineering and the fundamentals of civil, electrical, and mechanical engineering. In the Ceramic Engineering courses emphasis is placed on the principles of manufacture common to all ceramic industries. The Ceramic Engineering student may choose certain elective courses from the humanistic and social subjects.

The Olin Foundation in 1953 provided a grant for the construction and equipping of a Ceramic Engineering building. The grant has provided Clemson College with the outstanding facilities for Ceramic Engineering education and research. An excellent ceramic laboratory has been equipped to demonstrate all processes of ceramic manufacturing including beneficiation of ores and clays, grinding and crushing materials, mixing and blending raw materials, forming the materials into various shapes, and drying and firing the prepared objects. Equipment for the control of industrial processes is studied and tests are made to determine the quality of various ceramic products. Well-equipped laboratories are available for research on raw materials and problems of ceramic industries in South Carolina.

Ceramic Engineering graduates find employment as plant executives, research engineers, plant designers and constructors, equipment manufacturers, consulting engineers, ceramic chemists, and technologists in the ceramic industries and in allied fields.

CERAMIC ENGINEERING MAJOR

(See page 138 for *Freshman Year*)

Sophomore Year

First Semester			*Second Semester*		
CrE 201 Intro. to Cr. En.	2	(2,0)	CrE 202 Ceramic Materials	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	CrE 204 Lab. Procedures	1	(0,3)
Math 205 Calculus I	4	(3,2)	EM 302 Statics	3	(3,0)
Phys 211 Gen. Phys. for Engr.	4	(4,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Phys 213 Gen. Physics Lab.	1	(0,3)	Math 206 Calculus II	4	(3,2)
AS or MS — Basic	1	(2,1)	Phys 212 Gen. Phys. for Engr.	4	(4,0)
Approved Elective	3		Phys 214 Gen. Phys. Lab.	1	(0,3)
	18		AS or MS — Basic	1	(2,1)
				20	

Junior Year

CrE 304 Exp. Design	1	(0,3)	CrE 302 Thermo. Chem. Cer.	3	(3,0)
CrE 306 Fuels, Comb. & Heat Trans.	1	(0,3)	CrE 309 Res. Methods	2	(0,6)
CrE 307 Drying & Firing	3	(3,0)	Chem 332 Physical Chemistry	3	(3,0)
Chem 331 Physical Chemistry	3	(3,0)	EE 306 Elec. Engr. Lab.	1	(0,3)
EE 307 Basic Elect. Engr.	3	(3,0)	EE 308 Basic Elect. Engr.	3	(3,0)
EM 303 Dynamics	3	(3,0)	EM 304 Mech. of Matr.	3	(3,0)
Math 403 Statistics	3	(3,0)	Approved Elective	3	
	17			18	

Senior Year

CrE 403 Glasses	3	(3,0)	CrE 402 Solid State Ceramics	3	(3,0)
CrE 406 Cr. Project	2	(0,6)	CrE 407 Plant Design	3	(1,6)
Geol 306 Mineralogy	3	(2,3)	CrE 418 Process Control	3	(3,0)
IE 410 Engr. & Organiz.	3	(3,0)	Geol 307 Optical Min.	3	(2,3)
Approved Electives	9		Approved Electives	5	
	20			17	

Elective Policy. Nine credits humanistic-social and 5 credits engineering-scientific must be chosen. Each class adviser has a list of approved electives.

CHEMICAL ENGINEERING

The curriculm in Chemical Engineering is designed to give a basic education in science and engineering with the major emphasis in the chemical field. In addition to the work in unit operations theory, thermodynamics, and design, a solid background of chemistry, physics, mathematics, and general engineering is provided. The ever-changing and increasingly complex chemical industry demands well-educated, adaptive personnel, hence the rule-of-thumb methods of the past are no longer adequate for the chemical engineer's principal tasks, the design and management of chemical plants.

It must be stressed that chemical engineering is not chemistry *per se,* but rather is a profession that involves the application of engineering principles to the mass production of chemicals. The chemical industry is one of the dominant industries in the U. S. and accounts for over one-sixth of our gross national product.

Chemical Engineering graduates are principally employed in production, research and development, technical service, and sales. It is strongly suggested that the student chemical engineer spend at least one summer working for a chemical company in an engineering capacity.

CHEMICAL ENGINEERING MAJOR

(See page 138 for *Freshman Year*)

SOPHOMORE YEAR

First Semester			*Second Semester*		
ChE 204 Intro. Chem. Engr.	2	(1,3)	ChE 205 Introd. Chem. Engr.	3	(2,3)
Chem 216 Quan. Anal.	5	(3,6)	EM 302 Statics	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl Lit.	3	(3,0)
Math 205 Calculus I	4	(3,2)	Math 206 Calculus II	4	(3,2)
Phys 211 Gen. Phys. for Engr.	4	(4,0)	Phys 212 Gen. Phys. for Engr.	4	(4,0)
Phys 213 Gen. Physics Lab.	1	(0,3)	Phys 214 Gen. Phys. Lab.	1	(0,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	20			19	

JUNIOR YEAR

ChE 301 Prin. Chem. Engr.	3	(3,0)	ChE 302 Prin. Chem. Engr.	3	(3,0)
Chem 321 Prin. of Org. Chem.	4	(3,3)	ChE 306 Unit Operations	1	(0,3)
Chem 331 Physical Chemistry	3	(3,0)	ChE 331 Chem. Engr. Thermo.	3	(3,0)
Chem 339 Phys. Chem. Lab.	1	(0,3)	Chem 322 Prin. of Org. Chem.	4	(3,3)
Math 306 Diff. Equations	3	(3,0)	Chem 332 Physical Chemistry	3	(3,0)
EM 304 Mech. of Matr.	3	(3,0)	Chem 340 Phys. Chem. Lab.	1	(0,3)
			Approved Electives	3	
	17			18	

SENIOR YEAR

ChE 401 Prin. Chem. Engr.	3	(3,0)	ChE 409 Plant Design	2	(0,6)
ChE 407 Unit Operations	2	(0,6)	ChE 412 Thesis	2	(0,6)
ChE 411 Chem. Engr. Lib. Matr.	1	(0,3)	ChE 450 Chem. Engr. Kinetics	3	(3,0)
ChE 430 Chem. Engr. Thermo.	3	(3,0)	EE 308 Basic Elect. Engr.	3	(3,0)
EE 307 Basic Elect. Engr.	3	(3,0)	MetE 302 Metallurgy	3	(3,0)
Approved Electives	6		Approved Electives	5	
	18			18	

Each class adviser has an up-to-date list of approved electives giving suggested course sequences, and students must select their electives from this list. A minimum of nine credits in the humanities or social sciences must be elected. Any exceptions to the list of approved electives must be approved in writing by the department head.

CIVIL ENGINEERING

Civil Engineering is the broadest in scope of the engineering professions, being the parent stem from which most of the other branches of engineering have developed. All branches of Civil Engineering rest on a comparatively compact body of principles, in which the students are thoroughly trained in the classroom, the drafting room, the laboratory, and the field. Particular effort is made to develop those qualities essential to success in any field of endeavor and to fit the graduate to become a useful citizen—a good business man as well as a successful engineer.

The course in Civil Engineering leads to the degree of Bachelor of Science in Civil Engineering. It is planned to equip the student with a working knowledge of those subjects which are fundamental in the field of civil engineering.

The curriculum for the first three years is the same for all Civil Engineering students. In the senior year each student may make limited selection of technical electives in order to major in a General, Structural, or Sanitary option. However, each option requires specific and related courses so chosen as to round out the student's education in fundamentals and to qualify him to enter any branch of civil engineering which he chooses. The Civil Engineering graduate is prepared to work in practically all of the civil engineering fields, including surveying and mapping, design and construction of bridges, buildings, railways, highways, hydraulic, municipal and sanitary works.

A summer surveying camp is held on the campus during the regular summer school session, and all Civil Engineering students are required to attend at the end of their sophomore year.

In addition to the required technical studies, broadening training in the field of humanities is given.

CIVIL ENGINEERING MAJOR

(See page 138 for *Freshman Year*)

Sophomore Year

First Semester			*Second Semester*		
CE 200 Elem. Surv.	2	(1,3)	EM 302 Statics	3	(3,0)
Econ 201 Prin. of Economics	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Math 206 Calculus II	4	(3,2)
Math 205 Calculus I	4	(3,2)	Phys 212 Gen. Phys. for Engr.	4	(4,0)
Phys 211 Gen. Phys. for Engr.	4	(4,0)	Phys 214 Gen. Phys. Lab.	1	(0,3)
Phys 213 Gen. Phys. Lab.	1	(0,3)	AS or MS — Basic	1	(2,1)
AS or MS — Basic	1	(2,1)			
	18			16	

Summer Survey Camp

CE 301 Surveying	3	(2,3)	CE 305 Route Surveying	3	(2,3)

Junior Year

EM 303 Dynamics	3	(3,0)	CE 308 Struct. Anal.	4	(3,3)
EM 304 Mech. of Matls.	3	(3,0)	EE 307 Basic Elect. Engr.	3	(3,0)
EM 305 Mech. of Matls. Lab.	1	(0,3)	EM 401 Fluid Mech.	3	(3,0)
Geol 406 Engr. Geology	3	(2,3)	EM 403 Fluid Mech. Lab.	1	(0,3)
Math 306 Diff. Equations	3	(3,0)	ME 302 Elem. Thermodynamics	3	(3,0)
Approved Non-Tech. Elective	3		Approved Non-Tech. Elective	3	
Approved Tech. Elective	3				
	19			17	

Senior Year

CE 405 Environmental Engr.	4	(3,3)	CE 404 Concrete Struct.	4	(3,3)
CE 407 Struct. Design	4	(3,3)	CE 406 Transportation Engr.	3	(2,3)
CE 414 Soil Mechanics	3	(2,3)	CE 408 Mat. & Meth. of Constr.	3	(3,0)
CE 422 Engr. Relations	3	(3,0)	Approved Non-Tech. Elective	3	
Approved Non-Tech. Elective	3		Approved Tech. Elective	5	
	17			18	

Each class adviser has an up-to-date list of approved electives giving suggested course sequences, and students must select their electives from this list. Any exceptions to the list must be approved in writing by the department head.

ELECTRICAL ENGINEERING

Engineering deals fundamentally with the control of the energies of nature. Electrical Engineering is that branch of engineering which embraces the conversion of primary energy into electrical form, the application of this energy to perform useful work, and the study of electrical methods of carrying out sensing, control, and communication functions.

The curriculum for students in Electrical Engineering contains a selected series of fundamental studies which enable the student to enter any division of the field of Electrical Engineering. In addition, the curriculum includes a selected group of broadening and cultural studies.

The first two years are devoted largely to basic sciences, mathematics, English, and other subjects prerequisite to a study of engineering. In the last two years the courses, although still fundamental in nature, are based upon problems encountered in the various phases of electrical engineering. A limited degree of specialization in power or electronics work is possible.

The theoretical courses in science and engineering are paralleled and reinforced by strong laboratory courses, through which the student may make his own determinations of the characteristics of engineering materials and machines and other electrical devices. The laboratories are well equipped for this work.

The entire course is directed toward the development of initiative and self-reliance, so that the student may enter his chosen field with reasonable hope of usefulness and success.

Any questions regarding scheduling or electives for those concerned with the transition between curricula should be taken up with the appropriate class advisers.

ELECTRICAL ENGINEERING MAJOR

(See page 138 for *Freshman Year*)

Sophomore Year

First Semester			*Second Semester*		
Econ 201 Prin. of Economics	3	(3,0)	EE 214 Elec. Cir. & Fields	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	EM 302 Statics	3	(3,0)
Math 205 Calculus I	4	(3,2)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Phys 211 Gen. Phys. for Engr.	4	(4,0)	Math 206 Calculus II	4	(3,2)
Phys 213 Gen. Phys. Lab.	1	(0,3)	Phys 212 Gen. Phys. for Engr.	4	(4,0)
AS or MS — Basic	1	(2,1)	Phys 214 Gen. Phys. Lab.	1	(0,3)
	16		AS or MS — Basic	1	(2,1)
				19	

JUNIOR YEAR

First Semester			Second Semester		
EE 313 Elect. & Mag. Fields	2	(2,0)	EE 312 Elec. Mach. I	3	(3,0)
EE 315 A. C. Circuits	4	(3,3)	EE 314 Elec. Mach. I Lab.	1	(0,3)
EE 317 Measurements Lab.	1	(0,3)	EE 316 A. C. Circuits	3	(3,0)
EM 303 Dynamics	3	(3,0)	EE 320 Electronics I	3	(3,0)
Engl 301 Public Speaking	3	(3,0)	EE 322 Electronics I Lab.	1	(0,3)
Math 306 Ord. Diff. Equations	3	(3,0)	EM 304 Mech. of Materials	3	(3,0)
ME 302 Elem. Thermodynamics	3	(3,0)	ME 304 Heat Transfer I	3	(3,0)
			ME 307 Mech. Engr. Lab.	1	(0,3)
	19			18	

SENIOR YEAR

EE 401 Seminar	1	(1,0)	EE 402 Engr. Analysis	1	(0,3)
EE 407 Electronics II	3	(3,0)	EE 410 Feedback Cont. Syst.	3	(3,0)
EE 409 Electronics II Lab.	1	(0,3)	IE 410 Engr. and Org.†	3	(3,0)
EE 415 Adv. Circuits	3	(3,0)	Approved Electives*	13	
EE 417 Elect. Mach. II	3	(3,0)		20	
EE 419 Elect. Mach. II Lab.	1	(0,3)			
Hist 301 U. S. Since 1865	3	(3,0)			
Approved Electives*	4				
	19				

* Each class adviser has an up-to-date list of approved electives and students must select their electives from this list. Any exceptions to this list must be approved in writing by the department head.

Advanced ROTC or *AFROTC:* Six credits of advanced ROTC or AFROTC and at least three credits in EE. The other credits may be any approved general or technical electives, but may not be advanced ROTC or AFROTC.

Non-ROTC: At least three credits in EE electives and at least six credits in approved general electives.

† CE 422 or IE 404 may be substituted for IE 410 if necessary.

INDUSTRIAL EDUCATION

The curriculum in Industrial Education has as its primary objective the preparation of students to teach a wide variety of industrial subjects. These derive their purpose from needs which the expanding industry of South Carolina and the Southeastern region demand of the industrial education teacher. Some of the subjects which these teachers are required to teach include: drawing, woodworking, metal forming, machine shop, ceramics, plastics, textiles, electricity, auto mechanics, home mechanics, etc.

The curriculum is designed to provide the student with depth of understanding to meet the above and related demands. Industrial Education and related technical core work is coupled with studies in other areas as follows: (1) Physics and Chemistry, 16 credit hours; (2) Mathematics, 14; (3) Biological Science, 4; (4) Social Sciences, 15; and (5) English, Literature, and Arts, 15.

Industrial Education laboratory courses are conducted in one of the best equipped facilities in the country.

Employment opportunities for the graduate in Industrial Education are reflected in the increasing demand for teachers of industrial subjects. In South Carolina, for example, present demand greatly exceeds the supply of qualified teachers.

Graduates are qualified to teach related sciences, mathematics, industrial arts, and to serve as supervisors of Industrial Education programs in the public schools and in industries. Although the primary purpose of this curriculum is teaching in the technical field of Industrial Education, oportunities in other careers are available. Clemson can point with pride to the positions of leadership held by its Industrial Education graduates in other fields of endeavor.

INDUSTRIAL EDUCATION MAJOR

Freshman Year

First Semester		*Second Semester*	
Chem 101 General Chemistry	4 (3,3)	Chem 102 Gen. Chemistry	4 (3,3)
EG 107 Engr. Graphics	2 (0,6)	EG 108 Engr. Graphics	2 (0,6)
Engl 101 English Composition	3 (3,0)	Engl 102 English Composition	3 (3,0)
Hist 101 American History	3 (3,0)	Hist 102 American History	3 (3,0)
Math 105 Freshman Math.	4 (3,2)	Math 106 Freshman Math.	4 (3,2)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
	17		17

Sophomore Year

Engl 203 Survey of Engl. Lit.	3 (3,0)	Cr Ar 101 Pottery Materials	3 (2,3)
In Ed 201 In. Ed. Lab.	2 (1,3)	Econ 201 Principles of Econ.	3 (3,0)
Math 200 Introd. to Calculus	3 (3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
Phys 201 Gen. Physics	3 (3,0)	In Ed 202 In. Ed. Lab.	3 (1,6)
Phys 203 Gen. Physics Lab.	1 (0,3)	Phys 202 Gen. Physics	3 (3,0)
Zool 101, 103 Gen. Zoology	4 (3,3)	Phys 204 Gen. Physics Lab.	1 (0,3)
or Bot 101 Gen. Botany	4 (3,3)	TM 101 Introd. to Textiles	3 (2,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
	17		20

Junior Year

Ed 302 Educational Psychology*	3 (3,0)	Ed 335 Adoles. Growth & Develop.*	3 (3,0)
EE 303 Introd. to Elect. Engr.	4 (3,3)	Gov 301 Amer. Gov. and Pol. Par.	3 (3,0)
Engl 301 Public Speaking	3 (3,0)	In Ed 303 In. Ed. Lab.	3 (1,6)
In Ed 301 In. Ed. Lab.	3 (1,6)	In Ed 304 Equip. Maintenance	1 (0,3)
In Ed 302 Dwelling Mat. & Const. Meth.	2 (1,3)	Math 303 Statistics	3 (3,0)
Approved Elective	3	Soc 301 Introd. Sociology	3 (3,0)
		Approved Elective	3
	18		19

Senior Year

In Ed 401 In. Ed. Lab.	3 (1,6)	Arch 403 Introd. to the Visual Arts*	3 (3,0)
In Ed 405 Tests and Measure. in In. Ed.	3 (3,0)	Ed 458 Health Education*	3 (3,0)
In Ed 410 Phil. of In. Ed.*	3 (3,0)	In Ed 402 Directed Teaching*	6(1,15)
In Ed 416 Design and Oper. of In. Ed. Lab.	3 (2,3)	Music 310 Music Appreciation*	3 (3,0)
In Ed 422 Voc. Ed. Programs	3 (3,0)	Approved Elective	3
In Ed 425 Teach In. Subj.*	3 (3,0)		
	18		18

* Required for Teacher Certification.

Each class adviser has an up-to-date list of approved electives giving suggested course sequences, and students must select their elective from this list. Any exceptions to the list must be approved in writing by the department head.

INDUSTRIAL ENGINEERING

The creative and challenging work of the Industrial Engineer lies in the field of manufacturing. He designs the manufacturing processes that produce the innumerable goods we see about us, such as automobiles, radios, cloth and clothes, chairs, typewriters, airplanes, textile machines, lights, pencils, books, boats, bicycles, etc. To create production systems for products which may require only a small area to those covering many acres the Industrial Engineer must do planning of many kinds. He plans: (1) the basic processes to be used, such as machining, casting, welding, stamping, forging, molding, sewing, painting, assembling, etc.; (2) the machines to be used; (3) the arrangement of work stations; (4) the time standards for the job; (5) the selection and layout of all the machines and equipment; (6) the materials handling methods and equipment; (7) the degree of mechanization or automation of a process; (8) the special tooling, such as dies, jigs, and fixtures; (9) the scheduling of flow of work so that the right quantity of material is at the right place at the right time; (10) the methods of inspection and quality control; and (11) the methods for controlling costs. In search for the most efficient methods the Industrial Engineer must, with the aid of research and development studies, create many alternatives and then subject each to critical economic analysis. The physical result of his design efforts is the complex production system found within the factory walls.

Because Industrial Engineers find employment in all types of manufacture, the curriculum at Clemson is predicated upon providing the best possible grounding in the fundamentals of science and engineering. The curriculum includes a strong core of basic science, engineering science, and mathematics courses in seven of the eight semesters. Their application to Industrial Engineering is carried through a series of carefully integrated courses. Classroom work is implemented by experimental studies in one of the best equipped laboratories of its kind in the country.

Excellent opportunities for industrial employment, graduate studies, and in college teaching are open to the Industrial Engineer everywhere.

The graduate who prefers employment in the Southeast region will find excellent opportunity in a vast textile industry and in the rapidly growing numbers of manufacturing plants producing products of metals, plastics, glass, paper, rubber, wood, etc. Because he develops a breadth of understanding of manufacturing organization and operation, supervisory and management positions provide additional opportunity for him.

INDUSTRIAL ENGINEERING MAJOR

(See page 138 for *Freshman Year*)

Sophomore Year

First Semester		*Second Semester*	
Econ 201 Prin. of Economics	3 (3,0)	CE 200 Elem. Surveying	2 (1,3)
Engl 203 Survey of Engl. Lit.	3 (3,0)	or IE 201 Mfg. Processes	2 (1,3)
IE 201 Mfg. Processes	2 (1,3)	EM 302 Statics	3 (3,0)
or CE 200 Elem. Surveying	2 (1,3)	Engl 204 Survey of Engl. and Amer. Lit.	3 (3,0)
Math 205 Calculus I	4 (3,2)	Math 206 Calculus II	4 (3,2)
Phys 211 Gen. Phys. for Engr.	4 (4,0)	Phys 212 Gen. Phys. for Engr.	4 (4,0)
Phys 213 Gen. Phys. Lab.	1 (0,3)	Phys 214 Gen. Phys. Lab.	1 (0,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
	18		18

Junior Year

EM 303 Dynamics	3 (3,0)	EM 304 Mech. of Matls.	3 (3,0)
IE 301 Intro. Ind. Engr.	3 (3,0)	EM 305 Mech. of Matls. Lab.	1 (0,3)
IE 304 Motion & Time Study	3 (2,3)	IE 306 Process Fund.	3 (2,3)
Math 306 Diff. Equations	3 (3,0)	Math 403 Statistics	3 (3,0)
ME 302 Elem. Thermodynamics	3 (3,0)	ME 304 Heat Transfer I	3 (3,0)
MetE 302 Metallurgy	3 (2,3)	ME 316 Kin. & Dyn. of Mach.	3 (2,3)
		Approved Elective	3
	18		19

Senior Year

EE 307 Basic Elect. Engr.	3 (3,0)	EE 308 Basic Elec. Engr.	3 (3,0)
EE 309 Elect. Engr. Lab.	1 (0,3)	EE 310 Elec. Engr. Lab.	1 (0,3)
EM 401 Fluid Mech.	3 (3,0)	IE 404 Engr. Ec. Analysis	3 (3,0)
Engl 301 Public Speaking	3 (3,0)	IE 408 Plant Design	2 (0,6)
IE 401 Process Anal. & Control	3 (2,3)	IE 409 Prof. Dev. & Thesis	2 (1,3)
IE 403 Process Fund.	3 (2,3)	IE 411 Production Control	3 (3,0)
Approved Elective	3	Math 310 Computer Program.	2 (1,3)
		Approved Elective	3
	19		19

Each class adviser has an up-to-date list of approved electives giving suggested course sequences. Students must select their electives from this list. Any exceptions to list must be approved in writing by the department head.

MECHANICAL ENGINEERING

Mechanical Engineering deals largely with the production of power from prime sources of energy and the design of wide variety of mechanisms involved in the production and use of this power.

The curriculum for students in Mechanical Engineering follows a sequence beginning with the basic sciences of mathematics, physics and chemistry, continuing through the engineering sciences of thermodynamics, mechanics of solids and fluids, strength of materials, electrical theory, and metallurgy, and ending with synthesis type courses designed to require the student to draw on his entire engineering and technological background.

The economic aspects of all engineering are emphasized as much as possible, and the program is conducted so as to encourage orderly habits of attack and analysis, with the main emphasis on why rather than how. Students are encouraged to develop a broad background along with their scientific and technical training, and humanistic-social courses are an important part of the curriculum.

Mechanical Engineering graduates work with the production and application of power, in research, and in design, development, construction and application of machines, as well as in management.

MECHANICAL ENGINEERING MAJOR

(See page 138 for *Freshman Year*)

Sophomore Year

First Semester			*Second Semester*		
Econ 201 Prin. of Economics	3	(3,0)	EM 302 Statics	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
IE 201 Mfg. Processes	2	(1,3)	Math 206 Calculus II	4	(3,2)
or ME 214 Engr. Problems	1	(0,3)	ME 214 Engr. Problems	1	(0,3)
Math 205 Calculus I	4	(3,2)	or IE 201 Mfg. Processes	2	(1,3)
Phys 211 Gen. Phys. for Engr.	4	(4,0)	Phys 212 Gen. Phys. for Engr.	4	(4,0)
Phys 213 Gen. Phys. Lab.	1	(0,3)	Phys 214 Gen. Phys. Lab.	1	(0,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	18 or 17			17 or 18	

Junior Year

EE 307 Basic Elect. Engr.	3	(3,0)	EE 308 Basic Elec. Engr.	3	(3,0)
EE 309 Elect. Engr. Lab.	1	(0,3)	EE 310 Elec. Engr. Lab.	1	(0,3)
EM 303 Engr. Mechanics	3	(3,0)	EM 401 Fluid Mechanics	3	(3,0)
EM 304 Mechanics of Matls.	3	(3,0)	ME 304 Heat Transfer I	3	(3,0)
EM 305 Mech. of Matls. Lab.	1	(0,3)	ME 312 Engr. Thermo. II	3	(3,0)
Math 306 Ord. Diff. Equations	3	(3,0)	ME 314 ME Lab.	1	(0,3)
ME 311 Engr. Thermo. I	3	(3,0)	ME 316 Kin. & Dyn. of Mach.	3	(2,3)
			Elective	3	
	17			20	

Senior Year

ME 401 Machine Design	3	(3,0)	IE 410 Engr. and Org.	3	(3,0)
ME 405 Seminar	1	(1,0)	ME 414 ME Lab.	1	(0,3)
ME 413 ME Lab.	1	(0,3)	ME 417 Engr. Analysis	1	(0,3)
ME 416 Engr. Analysis	1	(0,3)	ME Senior Option	6	(6,0)
ME Senior Option	6	(6,0)	Electives	8	
MetE 302 Gen. Metallurgy	3	(3,0)			
Elective	5				
	20			19	

ME SENIOR OPTION. Twelve credits must be taken from the following group:

ME 402 Machine Design	3	(1,6)
ME 403 Gas Dynamics	3	(3,0)
ME 404 Automatic Control Engineering	3	(3,0)
ME 407 Heat Transfer II	3	(3,0)
ME 411 Gas Power	3	(3,0)
ME 412 Steam Power	3	(3,0)
ME 422 Prin. of Turbomachinery	3	(3,0)
ME 429 Air Conditioning	3	(3,0)

Elective Policy. Six credits humanistic-social and six credits engineering-scientific must be chosen. Each class adviser has a list of approved electives.

SCHOOL OF TEXTILES

The great majority of the textile manufacturing companies are now located in the Southeastern States, centering in South Carolina and neighboring states. This makes Clemson College an appropriate institution for college training in this field. Since there are only ten college level institutions offering training in textiles and since South Carolina has more textile spindles than any other state, Clemson has a real obligation to provide well-trained graduates for South Carolina as well as its share of graduates for the states not having textile schools. The textile industry, realizing the importance of textile training, has contributed approximately one and one-half million dollars, which has enabled Clemson to have one of the top textile schools of the nation, with excellent staff, equipment, and building facilities.

The graduates of the textile schools find positions throughout the textile industry and in a multitude of allied fields. The textile industry in the Southeast is largely managed by these graduates. Down through the years, the demand for textile school graduates has far exceeded the supply.

The Clemson School of Textiles offers three major courses that lead to the degree of Bachelor of Science: Textile Chemistry, Textile Management, and Textile Science. All three curriculums offer a broad academic program.

The School of Textiles recommends summer employment in the industry. With this experience a student can get more from his classes while in school and this experience will enable him to make a wiser choice in employment when he graduates.

TEXTILE CHEMISTRY

The Textile Chemistry curriculum is a well-rounded educational program especially strong in requirements in English. It is planned to give the students thorough preparation in basic chemistry in addition to textile chemistry, general textile and managerial subjects. Graduates of this curriculum are largely employed in administrative and research positions in finishing plants and synthetic fiber plants as well as in dyestuff and chemical organizations. Many who graduate in this major continue their education through the master's and doctor's degrees.

TEXTILE CHEMISTRY MAJOR

Freshman Year

First Semester			*Second Semester*		
Chem 103 General Chemistry	4	(3,3)	Chem 104 Gen. Chemistry	3	(3,0)
EG 105 Engr. Graphics	2	(0,6)	Chem 106 Qual. Analysis	2	(0,6)
Engl 101 English Composition	3	(3,0)	EG 106 Engr. Graphics	2	(0,6)
Math 105 Freshman Math.	4	(3,2)	Engl 102 English Composition	3	(3,0)
TM 101 Introd. to Text.	3	(2,3)	Math 106 Freshman Math.	4	(3,2)
AS or MS — Basic	1	(2,1)	Gov 101 Am. Natl. Govt.	3	(3,0)
			AS or MS — Basic	1	(2,1)
	17			18	

Sophomore Year

Chem 219 Chemical Prin.	2	(2,0)	Chem 216 Quan. Analysis	5	(3,6)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Math 205 Calculus I	4	(3,2)	Math 206 Calculus II	4	(3,2)
Phys 201 Gen. Physics	3	(3,0)	Phys 202 Gen. Physics	3	(3,0)
Phys 203 Gen. Physics Lab.	1	(0,3)	Phys 204 Gen. Physics Lab.	1	(0,3)
WD 221 Fabric Design	3	(2,3)	AS or MS — Basic	1	(2,1)
AS or MS — Basic	1	(2,1)			
	17			17	

JUNIOR YEAR

First Semester			*Second Semester*		
Chem 331 Physical Chemistry	3	(3,0)	Chem 332 Physical Chemistry	3	(3,0)
Econ 201 Prin. of Economics	3	(3,0)	Engl 301 Public Speaking	3	(3,0)
Hist 304 Hist. of Civil.	3	(3,0)	TC 306 Textile Chemistry	4	(4,0)
TC 305 Textile Chemistry	4	(4,0)	TC 308 Textile Chemistry Lab.	1	(0,3)
TC 307 Textile Chemistry Lab.	1	(0,3)	TM 302 Textile Quality Control	3	(3,0)
TM 301 Textile Quality Con.	3	(3,0)	TM 454 Motion & Time Study	3	(2,3)
Approved Elective*	3		TM 462 Textile Microscopy	2	(1,3)
	20			19	

SENIOR YEAR

Econ 301 Labor Problems	3	(3,0)	TC 440 Textile Finishing	3	(1,6)
Engl 401 Advanced Composition	3	(3,0)	TC 456 Chem. Syn. Fib. & Fin.	3	(3,0)
TC 442 Thesis	2	(0,6)	TC 462 Chem. Proc. Text.	3	(3,0)
TC 447 Chem. Proc. Text.	3	(3,0)	TC 464 Chem. Proc. Text. Lab.	1	(0,3)
TC 449 Chem. Proc. Text. Lab.	1	(0,3)	TM 403 Textile Management	3	(3,0)
TC 475 Cellulose Chemistry	2	(2,0)	TM 464 Physical Text. Testing	2	(1,3)
TM 468 Seminar	1	(1,0)	Approved Elective*	3	
Approved Elective*	3				
	18			18	

* Approved Electives:

Econ 202, Social Sciences and English on the junior and senior level that do not duplicate required subjects.
Textile courses, physics, chemistry and mathematics beyond those required.
Ag Ec 352—Public Finance.
IM 307—Personnel Management.
Music 310—Music Appreciation.
AS and MS—Advanced.

TEXTILE MANAGEMENT

The Textile Management curriculum is planned to give adequate training in the textile technological and managerial subjects. An unusually strong program is offered in English, including courses in public speaking and technical report writing. The basic sciences are taken care of, including some organic chemistry. The chief outside emphasis is on the social sciences.

The Management curriculum is designed for the student whose interest is in the field of human relations. The strong program in the social sciences emphasizes this.

TEXTILE MANAGEMENT MAJOR

FRESHMAN YEAR

First Semester			*Second Semester*		
Chem 101 General Chemistry	4	(3,3)	Chem 102 Gen. Chemistry	4	(3,3)
EG 105 Engr. Graphics	2	(0,6)	EG 106 Engr. Graphics	2	(0,6)
Engl 101 English Composition	3	(3,0)	Engl 102 Engl. Composition	3	(3,0)
Gov 101 Am. Natl. Govt.	3	(3,0)	Math 106 Freshman Math.	4	(3,2)
Math 105 Freshman Math.	4	(3,2)	TM 101 Intro. to Text.	3	(2,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	17			17	

SOPHOMORE YEAR

Econ 201 Prin. of Economics	3	(3,0)	Econ 202 Prin. of Economics	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Hist 104 Western Civilization	3	(3,0)	Phys 202 Gen. Physics	3	(3,0)
Phys 201 Gen. Physics	3	(3,0)	Phys 204 Gen. Physics Lab.	1	(0,3)
Phys 203 Gen. Physics Lab.	1	(0,3)	WD 221 Fabric Design	3	(2,3)
WD 225 Loom Mechanism	2	(1,3)	WD 226 Loom Mechanism	2	(1,3)
YM 221 Opening and Blending	3	(2,3)	YM 222 Cleaning	3	(2,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	19			19	

JUNIOR YEAR

First Semester			*Second Semester*		
Engl 301 Public Speaking	3	(3,0)	Soc 301 Sociology	3	(3,0)
TC 321 Textile Chemistry	3	(3,0)	TC 322 Chem. Proc. Text.	3	(3,0)
TC 323 Textile Chem. Lab.	1	(0,3)	TC 324 Textile Chemistry Lab.	1	(0,3)
TM 301 Textile Quality Control	3	(3,0)	TM 302 Textile Quality Control	3	(3,0)
WD 301 Fab. Struct. & Design	2	(1,3)	WD 302 Fabric Analysis	2	(1,3)
WD 309 Knitting	1	(0,3)	YM 322 Draft., Twist. & Wind. (II)	3	(2,3)
YM 321 Draft., Twist. & Wind. (I)	3	(2,3)	Approved Elective*	3	
Approved Elective*	3				
	19			18	

SENIOR YEAR

Engl 401 Advanced Composition	3	(3,0)	Econ 301 Labor Problems	3	(3,0)
Psych 301 Gen. Psychology	3	(3,0)	TM 407 Textile Costing	3	(2,3)
TC 421 Color Applied to Text.	3	(3,0)	TM 454 Motion and Time Study	3	(2,3)
TC 423 Text. Chem. Lab.	1	(0,3)	TM 462 Textile Microscopy	2	(1,3)
TM 403 Textile Management	3	(3,0)	TM 464 Physical Textile Test.	2	(1,3)
TM 405 Textile Costing	3	(2,3)	TM 468 Seminar	1	(1,0)
WD 401 Warp Preparation	2	(1,3)	WD 402 Fabric Development	3	(2,3)
	18			17	

* Approved Electives:
Social Sciences and English on the junior and senior level that do not duplicate required subjects.
Textile courses, physics, chemistry, and mathematics beyond those required.
Ag Ec 352—Public Finance.
IM 307—Personnel Management.
Music 310—Music Appreciation.
AS and MS—Advanced.

TEXTILE SCIENCE

In the Textile Science curriculum the emphasis is on the basic sciences of mathematics, physics, and chemistry. These three subjects make up about 40 per cent of the curriculum.

The textile technological and managerial courses are ample and the English is the same as most curriculums in the College.

The Textile Science curriculum is especially designed for the student with scientific leanings. It prepares him for research and development work as well as for positions in production and standards. It has a very strong foundation for a graduate school program.

TEXTILE SCIENCE MAJOR

FRESHMAN YEAR

First Semester			*Second Semester*		
Chem 101 General Chemistry	4	(3,3)	Chem 102 Gen. Chemistry	4	(3,3)
EG 105 Engr. Graphics	2	(0,6)	EG 106 Engr. Graphics	2	(0,6)
Engl 101 English Composition	3	(3,0)	Engl 102 English Composition	3	(3,0)
Gov 101 Am. Natl. Govt.	3	(3,0)	Math 106 Freshman Math.	4	(3,2)
Math 105 Freshman Math.	4	(3,2)	TM 101 Intro. to Text.	3	(2,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	17			17	

SOPHOMORE YEAR

Engl 203 Survey of Engl. Lit.	3	(3,0)	Engl 204 Survey of Engl. and Amer. Lit.	3	(3,0)
Math 205 Calculus I	4	(3,2)	Math 206 Calculus II	4	(3,2)
Phys 211 Gen. Phys. for Engr.	4	(4,0)	Phys 212 Gen. Phys. for Engr.	4	(4,0)
Phys 213 Gen. Phys. Lab.	1	(0,3)	Phys 214 Gen. Phys. Lab.	1	(0,3)
WD 225 Loom Mechanism	2	(1,3)	WD 226 Loom Mechanism	2	(1,3)
YM 221 Opening & Blending	3	(2,3)	YM 222 Cleaning	3	(2,3)
AS or MS — Basic	1	(2,1)	AS or MS — Basic	1	(2,1)
	18			18	

Junior Year

First Semester			Second Semester		
Econ 201 Prin. of Econ.	3	(3,0)	Science Option†	5	
Science Option†	3		TC 306 Textile Chemistry	4	(4,0)
TC 305 Textile Chemistry	4	(4,0)	TC 308 Textile Chemistry Lab.	1	(0,3)
TC 307 Textile Chem. Lab.	1	(0,3)	TM 302 Textile Quality Control	3	(3,0)
TM 301 Textile Quality Control	3	(3,0)	WD 309 Knitting	1	(0,3)
WD 221 Fabric Design	3	(2,3)	YM 322 Draft., Twist. & Wind. (II)	3	(2,3)
YM 321 Draft., Twist. & Wind. (I)	3	(2,3)			
	20			17	

Senior Year

TC 421 Color Applied to Text.	3	(3,0)	Engl 301 Public Speaking	3	(3,0)
TC 423 Text. Chem. Lab.	1	(0,3)	Science Option†	3	
TM 403 Textile Management	3	(3,0)	TM 407 Textile Costing	3	(2,3)
TM 405 Textile Costing	3	(2,3)	TM 454 Motion and Time Study	3	(2,3)
WD 301 Fab. Struct. & Design	2	(1,3)	TM 462 Textile Microscopy	2	(1,3)
WD 401 Warp Preparation	2	(1,3)	TM 464 Physical Textile Test.	2	(1,3)
Approved Elective*	4		TM 468 Seminar	1	(1,0)
			Approved Elective*	2	
	18			19	

* Approved Electives:

Econ 201 and Econ 202. Social Sciences and English on the junior and senior level that do not duplicate required subjects.
Textile courses, physics, chemistry, and mathematics beyond those required.
Ag Ec 352—Public Finance.
IM 307—Personnel Management.
Music 310—Music Appreciation.
AS and MS—Advanced.

† Mathematics or physics to be approved by the class adviser and certified to the Director of Admissions and Registration.

DESCRIPTION OF COURSES

This list of courses includes for each course the catalog number, title of course, credit in semester hours, class laboratory hours per week, and the description of the course. In general, courses numbered 100-199 are freshman courses, 200-299 sophomore courses, 300-399 junior courses, and 400-499 senior courses. Courses numbered 500 or above are graduate courses and are open only to students admitted to the Graduate School.

ACCOUNTING

Mr. Trevillian

Mr. Davis, Mr. Edel, Mr. Willis, Mr. Scott

Acct 201—Principles of Accounting—3 cr. (3 and 0)

Practice in handling real and nominal accounts, together with an introduction to the use of various types of books of original entry, statements of profit and loss, and balance sheets. The work of this course consists of lectures and problems.

Acct 202—Principles of Accounting—3 cr. (3 and 0)

Continuation of Acct 201 with special attention to corporation and partnership accounting with emphasis on adjustment procedures and the analysis of financial statements. *Prerequisite:* Acct 201.

AGRICULTURAL ECONOMICS

MR. AULL

MR. STEPP, MR. BAUKNIGHT, MR. SPURLOCK, MR. TODD

AG EC 202—AGRICULTURAL ECONOMICS—3 cr. (3 and 0)

An analytical survey of the various subdivisions of agricultural economics, to include farm organization, enterprise analysis, land economics, marketing, farm prices, governmental farm policies, and the relation of agriculture to the national and international economy. *Prerequisite:* Econ 201.

AG EC 302—FARM MANAGEMENT—3 cr. (2 and 3)

Business principles underlying the organization and operation of individual farms. Such factors as proper balance between enterprises and use of sound economic principles are considered from the viewpoint of continuous profits. *Prerequisite:* Econ 201.

AG EC 305—FARM ACCOUNTING—3 cr. (2 and 3)

Double-entry bookkeeping is stressed in the foundation of this course. Study is then made of special journals, simplifications for farm record keeping, farm inventories, farm budgets, interpretation of financial statements, and the factor method of farm business analysis.

AG EC 309—INTRODUCTION TO MARKETING—3 cr. (3 and 0)

A general introduction to the field of marketing with emphasis on marketing functions, institutions and channels of distribution. Special emphasis is given to recent changes and developments in marketing policies and practices. Other subjects covered include objectives and uses of marketing research, product design, brand policy, and pricing. Attention is given to industrial products as well as agricultural commodities. *Prerequisite*: Econ 201.

AG EC 352—PUBLIC FINANCE—3 cr. (3 and 0)

Principles of financing government, sources of public revenue, objects of public expenditures, problems of fiscal administration, and the application of fiscal policies in stabilizing the national economy.

AG EC 357—CONSERVATION OF NATURAL RESOURCES—3 cr. (3 and 0)

A study of the principles and problems involved in the conservation of soil, water, and mineral resources, with special emphasis on economic aspects of various methods of resource utilization and on the costs and benefits of various conservation practices. *Prerequisite:* Econ 201.

AG EC 361—MARKETING LIVESTOCK AND LIVESTOCK PRODUCTS—3 cr. (3 and 0)

Steps and conditions attending the marketing of livestock and dairy products are considered. Included are selling methods; factors affecting price, production and utilization of meats; fluid milk and other dairy products; practices of buyers and packers; activities of state and federal governments; pricing policies and price determination; market news services; and psychology and preferences of consumers. *Prerequisite:* Junior standing.

AG EC 401—STATISTICS—3 cr. (2 and 3)

An elementary course dealing with the organization and presentation of statistical data, measures of central tendency, simple correlation analysis, measures of variation, and the more important statistical tests of significance as applied to scientific research and quality control.

Ag Ec 405—Seminar—1 cr. (1 and 0)
An examination of the relation of economics and sociology to specific problems. *Prerequisite:* Major in Agricultural Economics.

Ag Ec 406—Seminar—1 cr. (1 and 0)
A continuation of Ag Ec 405.

Ag Ec 451—Agricultural Cooperation—2 cr. (2 and 0)
The principles and practices of business organization and management governing the successful operation of cooperative business enterprises. Major emphasis is placed upon cooperative selling, processing, purchasing, and service enterprises that serve farm people. *Prerequisite:* Econ 201.

Ag Ec 452—Agricultural Policy—3 cr. (3 and 0)
A critical examination of government policies and programs affecting agriculture.

Ag Ec 456—Prices—3 cr. (3 and 0)
A review of the basic theory of price under competitive conditions and various modifications; nature, measurement and causes of daily, seasonal and cyclical price fluctuations; geographical price relationships; nature, function and behavior of future markets; government price programs. *Prerequisite:* Econ 201 and permission of instructor.

Ag Ec 460—Agricultural Finance—2 cr. (2 and 0)
A critical study of the financial needs of agriculture and of the organization, functions and interrelationships of agencies developed to meet these needs. *Prerequisite:* Econ 201.

Ag Ec 462—Applied Statistics—3 cr. (2 and 3)
Statistical methods used in the collection, analysis, presentation and interpretation of economic data. Special attention is given to time series analysis, the construction of index numbers and the designing of samples for surveys in the social science fields. *Prerequisite:* Ag Ec 401.

Ag Ec 501—Advanced Farm Management—3 cr. (2 and 3)

Ag Ec 503—Land Economics—3 cr. (3 and 0)

Ag Ec 504—Water Resource Policies—3 cr. (3 and 0)

Ag Ec 506—Economic Development in Agricultural Areas—3 cr. (3 and 0)

Ag Ec 507—Agricultural Marketing Problems—3 cr. (3 and 0)

Ag Ec 512—Experimental Designs—3 cr. (3 and 0)

Ag Ec 514—Contemporary Economic Problems—3 cr. (3 and 0)

Ag Ec 591—Thesis Research—3 cr.

Ag Ec 592—Thesis Research—3 cr.

Ag Ec 610—Research Problems in Farm Management—3 cr. (3 and 0)

Ag Ec 611—Research Problems in Farm Management—3 cr. (3 and 0)

Ag Ec 616—Research Problems in Marketing—3 cr. (3 and 0)

Ag Ec 617—Research Problems in Marketing—3 cr. (3 and 0)

AGRICULTURAL EDUCATION

MR. DAVIS

MR. BOWEN, MR. KIRKLEY, MR. RODGERS

AG ED 201—INTRODUCTION TO EDUCATION—3 cr. (2 and 3)

Principles of education, development of agricultural education, and an introduction to the formulation of instructional programs for the teaching of farm people by vocational agricultural teachers.

AG ED 401—METHODS IN AGRICULTURAL EDUCATION—3 cr. (2 and 3)

A study of appropriate methods of teaching vocational agriculture in high schools. The course includes procedures for organizing teaching programs, teaching high school students, and directing F. F. A. activities.

AG ED 406—DIRECTED TEACHING—6 cr. (0 and 18)

Guided participation in the professional responsibilities of a teacher of vocational agriculture including an intensive study of the problems encountered and the competencies developed. Only half semester of directed teaching in selected schools is required. *Prerequisite:* Ag Ed 401 and Ag Ed 422.

AG ED 422—PROBLEMS IN ADULT EDUCATION—3 cr. (2 and 3)

Pertinent problems in adult education including determination of needs, securing and organizing necessary instructional material, planning lessons, and teaching and supervising special groups.

AG ED 431—METHODS IN CONSERVATION EDUCATION—3 cr. (3 and 0)

In this course teachers and student teachers study various techniques appropriate to teaching conservation. Instruction is applicable to both elementary and high school teachers. (Offered in Summer School only.)

AG ED 463—ADVANCED CONSERVATION EDUCATION—3 cr. (3 and 0)

The broader aspects of conservation education. The course includes historical, geographical, and national conservation problems. It will be of special interest to those dealing directly with conservation problems. (Offered in Summer School only.)

AG ED 465—PROGRAM DEVELOPMENT IN AGRICULTURAL EDUCATION—3 cr. (3 and 0)

Each student will determine needs and resources in a specific community and plan a program to meet these needs based upon appropriate and accepted procedures and principles.

AG ED 501—RECENT DEVELOPMENTS IN THE TECHNOLOGY OF AGRICULTURE—3 cr. (2 and 3)

AG ED 502—RECENT DEVELOPMENTS IN THE TECHNOLOGY OF AGRICULTURE—3 cr. (2 and 3)

AG ED 504—SPECIAL PROBLEMS IN TEACHING VOCATIONAL AGRICULTURE—3 cr. (2 and 3)

AG ED 515—ADVANCED METHODS OF TEACHING FARM MECHANICS—3 cr. (2 and 3)

AG ED 520—TEACHING YOUNG FARMERS—3 cr. (3 and 0)

AG ED 525—SUPERVISION OF STUDENT TEACHING—3 cr. (3 and 0)

Ag Ed 591—Research—3 cr.

Ag Ed 592—Research—3 cr.

AGRICULTURAL ENGINEERING *

Mr. Wilson

Mr. McLeod, Mr. Rogers, Mr. Craig, Mr. Vaigneur

AgE 203—Agricultural Engineering Problems—1 cr. (0 and 3)
A general coverage in the logical approach to the solution of problems with the aid of the slide rule. The development of confidence in the slide rule, neatness, and accuracy are stressed. The course includes a review of the applications of trigonometric functions, logarithms, and a study of graphs and curve fitting. *Prerequisite:* Math 106.

AgE 205—Farm Shop—3 cr. (2 and 3)
Correct methods and underlying reasons in proper use and maintenance of hand and power tools are emphasized. Principal topics include: carpentry, painting and finishing, soldering and sheet metal work, farm concrete, pipe fitting and plumbing, and farm and home water supply systems. A course for agricultural students.

AgE 206—Agricultural Mechanization—3 cr. (2 and 3)
The agricultural student is taught to apply physical principles and sound reasoning to the mechanization of modern agricultural production and processing enterprises. Planning efficient operational systems and wise selection of equipment, based on function and economic suitability, are stressed. *Prerequisite:* Math 105, Phys 201 and 203.

AgE 207—Farm Mechanics—2 cr. (1 and 3)
Methods, techniques and elementary sciences applied to the use of tools and equipment pertinent to farm electrification, structures and machines. Designed for agricultural engineering majors. *Prerequisite:* Math 105, IE 101, and EG 108.

AgE 301—Soil Conservation—3 cr. (2 and 3)
Engineering and agronomic principles are applied to water management in agriculture. Elementary surveying, mathematics, crops and soil fundamentals are embodied into principles and practices of erosion control, drainage, water conservation and irrigation. A course for agricultural students. *Prerequisite:* Math 105.

AgE 304—Farm Electrical Design—3 cr. (2 and 3)
Utilization of basic electrical engineering in study of certain machines and systems. Special attention is given to design of wiring and control systems commonly found in processing installations. *Prerequisite:* EE 307 and 309 and junior standing.

AgE 311—Agricultural Machinery—3 cr. (2 and 3)
Engineering analysis of machines and of basic agricultural operations and systems requiring machine functions. Static force system analysis, energy transfer, functional analysis, machine and system efficiency, and economic considerations are emphasized. *Prerequisite:* Enrollment in EM 302 and junior standing.

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* Jointly administered by the School of Agriculture and the School of Engineering.

AgE 312—Agricultural Tractor Power—3 cr. (2 and 3)
The application of engineering fundamentals to the farm tractor with emphasis upon power development, power transmission, and accessories. Topics include thermodynamic principles; power, its transmission and measurement; traction; hitches, stability and other factors which make the tractor a functionally sound agricultural machine. *Prerequisite:* AgE 311 and ME 302.

AgE 352—Farm Power—3 cr. (2 and 3)
A detailed study of farm tractors and stationary power units. Principles of operation, preventive maintenance, adjustment and general repair are emphasized. A course designed for agricultural majors. *Prerequisite:* AgE 206.

AgE 360—Farm and Home Utilities—3 cr. (2 and 3)
A course for seniors and graduate students in agriculture curriculums, involving a study of electric and other utilities on the farm and in the home. Selection, installation and maintenance of wiring systems, motors and controls, home water systems and sewage disposal system are emphasized. *Prerequisite:* Junior standing.

AgE 401—Soil and Water Conservation Engineering—3 cr. (2 and 3)
Elementary meteorology, hydrology, soil physics, and principles of fluid mechanics are used to form the basis of analysis and design of water-control structures, such as terraces, outlet channels, diversions, dams, spillways, flumes and drop inlets. *Prerequisite:* CE 200, Agron 202, and enrollment in EM 401.

AgE 402—Drainage and Irrigation—3 cr. (2 and 3)
Surface and sub-surface drainage principles, including flow of water through soils, channel flow and drainage requirements are used in the design of open ditch and title drainage systems. Irrigation topics include irrigation methods, sources of water for irrigation, the hydraulics of sprinkler irrigation equipment, pumps and power units, water requirements of crops and the design of sprinkler irrigation systems. *Prerequisite:* AgE 401 and EM 401.

AgE 406—Advanced Agricultural Machinery—3 cr. (2 and 3)
An analysis and design course to provide training for creative engineering in the field of agricultural power and machinery. Fundamentals of machine design are studied and applied to the design of agricultural machines. Experience is gained with some advanced analytical and experimental techniques. *Prerequisite:* AgE 311, EM 303 and 304.

AgE 409—Seminar—1 cr. (1 and 0)
A course to acquaint senior students in Agricultural Engineering with current status of the profession, utilization of scientific information available in library, and to report findings on a technical subject in a written and oral presentation. *Prerequisite:* Senior standing in Agricultural Engineering.

AgE 410—Agricultural Engineering Seminar—1 cr. (1 and 0)
A continuation of AgE 409.

AgE 433—Agricultural Process Engineering—3 cr. (2 and 3)
A course dealing with the unit operations involved in the processing of agricultural products. The application of engineering principles and instrumentation to size reduction, cleaning and grading, mixing, materials handling, work simplification, dehydrating, drying, refrigeration, storage, and related subjects. *Prerequisite:* EM 401.

AgE 452—Farm Structures Design—3 cr. (2 and 3)
A study of the relationships of farm service buildings to agriculture as a business enterprise. Consideration is given to over-all planning and design of buildings as well as design of basic building components. Functional considerations and environmental control, with particular emphasis on basic problems in heat transfer and psychometric relationships, are also covered in the course. *Prerequisite:* EM 304 and ME 302.

AgE 481—Fundamentals of Ginning Engineering—3 cr. (2 and 3)
An analysis of the engineering requirements and associated problems in all phases of ginning, such as handling, storage, drying, separating lint, cleaning, pressing, disposing of foreign matter, quarantine treatment, power requirements and safety precautions. *Prerequisite:* EM 304 or equivalent.

AgE 501—Special Problems in Agricultural Engineering—3 cr. (3 and 0)

AgE 504—Engineering Application to Agricultural Processing—3 cr. (2 and 3)

AgE 511—Agricultural Power and Machinery—3 cr. (3 and 0)

AgE 522—Advanced Drainage and Irrigation Engineering—3 cr. (3 and 0)

AgE 582—Advanced Ginning Engineering—3 cr. (2 and 3)

AgE 591—Research—3 cr.

AgE 592—Research—3 cr.

AGRICULTURE

Mr. J. W. Jones, Mr. M. H. Sutherland

Agr 101—Introduction to Agriculture—1 cr. (1 and 0)
Guides to effective study; use of the library; scope of the agricultural industry; agriculture of South Carolina and the United States; organizations and functions of the land-grant institution and other agencies serving agriculture; career opportunities.

Agr 302—Agricultural Extension—2 cr. (2 and 0)
An introductory course designed to acquaint students with the Cooperative Extension Service; its place among other educational agencies; its purpose, philosophy and objectives; how it operates and the results obtained; its social and economic significance; and the use of research data in the development and conduct of the Extension Program.

AGRONOMY

Mr. U. S. Jones
Mr. C. M. Jones, Mr. Peele, Mr. Bardsley, Mr. Byrd, Mr. Craddock, Mr. Eskew, Mr. Page, Mr. Watkins

Agron 102—Crop Science—3 cr. (2 and 3)
A fundamental course in crop science, including crops of the major agricultural areas of the United States and emphasizing the crops of South Carolina. Included in the laboratory work is the study of the vegetative and seed

characteristics of grasses, legumes, vegetables and weeds of particular importance in South Carolina. *Prerequisite:* Bot 101.

Agron 202—Soils—3 cr. (2 and 3)

A basic foundation in soil science is presented with emphasis on the chemical and physical properties of soil, the activities of the living soil organisms, and the origin and classification of soils. This basic information is related to correct soil use and management. *Prerequisite:* Chem 101 and 102.

Agron 301—Fertilizers and Manures—3 cr. (3 and 0)

Sources, mining and manufacture, composition, physical characteristics, and use of fertilizers and manures. A detailed study is made of crop responses to fertilizer use. *Prerequisite:* Agron 202.

Agron 302—Genetics—3 cr. (2 and 3)

A general coverage of the basic principles of genetics. Examples illustrating the fundamentals of heredity and variation are given for plants and animals, including man.

Agron 306—Forage and Pasture Crops—3 cr. (3 and 0)

The characteristics, establishment, utilization and maintenance of crops for hay, silage, and pasture. Crops valuable in South Carolina are emphasized. *Prerequisite:* Agron 102.

Agron 308—Physical and Chemical Edaphology—3 cr. (1 and 6)

A study of the physical and chemical properties of soils and their determination in the laboratory. Special emphasis is placed on the relation of these properties to the potential fertility, management practices, and water holding capacity of soils. *Prerequisite:* Agron 202.

Agron 401—Advanced Crop and Seed Laboratory—1 cr. (0 and 3)

The identification of common field crop varieties, grasses, legumes, and weeds by vegetative and seed characteristics. Experience is gained in the rating of field crop varieties for important agronomic characteristics.

Agron 403—Soil Classification—2 cr. (1 and 3)

Theoretical and practical phases of soil survey, formation and classification in relation to land usage and plant adaptability. *Prerequisite:* Agron 202 or consent of instructor.

Agron 405—Plant Breeding—3 cr. (2 and 3)

The application of genetic principles to the development of improved crop plants. Principal topics include the genetic and cytogenetic basis of plant breeding, mode of reproduction, techniques in selfing and crossing, methods of breeding, inheritance in the major crops, and biometrical methods. *Prerequisite:* Agron 302.

Agron 409—Cotton and Tobacco—3 cr. (3 and 0)

History, morphology, physiology, fertilization, cultivation, insect and disease control, varieties, breeding, harvesting, grading and marketing of American Upland cotton and flue cured tobacco. The two crops are studied separately, about half a semester being devoted to each. *Prerequisite:* Agron 102.

Agron 452—Soil Fertility and Management—2 cr. (2 and 0)

Principles of crop rotations, soil fertility, soil management, and other factors necessary for the practical utilization of soils. *Prerequisite:* Agron 202 or consent of instructor.

AGRON 455—SEMINAR—1 cr. (1 and 0)
Student presentation of current agronomic topics of special interest in crop production appearing in recent scientific journals and other publications.

AGRON 456—SEMINAR—1 cr. (1 and 0)
Student presentation of current topics of special interest in the field of soil science appearing in recent scientific journals and other publications.

AGRON 501—NUTRITION OF CROPS—3 cr. (3 and 0)

AGRON 502—PEDOLOGY AND SOIL CLASSIFICATION—3 cr. (3 and 0)

AGRON 503—CROP PRODUCTION—3 cr. (3 and 0)

AGRON 504—PLANT BREEDING AND GENETICS—3 cr. (3 and 0)

AGRON 505—SOIL FERTILITY—3 cr. (3 and 0)

AGRON 506—SPECIAL PROBLEMS—2 cr. (2 and 0)

AGRON 507—SOIL PHYSICS—3 cr. (2 and 3)

AGRON 508—SOIL CHEMISTRY—3 cr. (2 and 3)

AGRON 591—RESEARCH—3 cr.

AGRON 592—RESEARCH—3 cr.

AIR SCIENCE

COLONEL THOMPSON
LT. COL. COTTER, MAJ. FIEBIG, MAJ. REED, CAPT. HILL, CAPT. HOWARD, CAPT. SKILLMAN

AS 109—FOUNDATIONS OF AEROSPACE POWER—1 cr. (2 and 1)
A general survey of aerospace power designed to provide the student with an understanding of the elements of aerospace power; and an introduction to the mechanics of aerospace vehicles, and to the composition of and necessity for national security forces. Laboratory periods provide training in drill fundamentals and leadership.

AS 110—FOUNDATIONS OF AEROSPACE POWER—1 cr. (2 and 1)
A continuation of AS 109 and laboratory phase of basic military training.

AS 209—FUNDAMENTALS OF AEROSPACE WEAPON SYSTEMS—1 cr. (2 and 1)
Introduction to aircraft and missiles and their propulsion systems. Also introduction to target intelligence, electronic warfare, and mechanics and implications of the most modern weaponry—nuclear, chemical, and biological. Leadership Laboratory.

AS 210—FUNDAMENTALS OF AEROSPACE WEAPON SYSTEMS—1 cr. (2 and 1)
Continuation of weapon technology. Introduction to strategic tactical and air defense concepts. Problems and possibilities in future military space operations. Contemporary military thought concerning strategy in the nuclear and space age. Leadership Laboratory.

AS 309—AIR FORCE OFFICER DEVELOPMENT—3 cr. (4 and 1)
Staff organization and functions, and the skills required for effective staff work, including oral and written communication, observing, and individual and group problem solving. The course provides both principles and practice. Leadership Laboratory.

AS 310—Air Force Officer Development—3 cr. (4 and 1)

Principles and practices of leadership. This includes basic psychology of leadership, the military justice system, and application of problem techniques and leadership theory to simulated and real Air Force problems.

AS 409—Global Relations—3 cr. (4 and 1)

An intensive study of global relations of special concern to the Air Force officer with emphasis on international relations and geography. Includes weather and navigation.

AS 410—Global Relations—3 cr. (4 and 1)

Forty hours are devoted to a study of the concepts of the military aspects of political geography; maps and charts; factors of power; and the geographic influences upon political problems with a geopolitical analysis of the strategic areas. Twenty hours are devoted to a study of materials to help the cadet make a rapid, effective adjustment to active duty as an officer of the United States Air Force.

ANIMAL HUSBANDRY

. Mr. Wheeler

Mr. Godley, Mr. Ritchie, Mr. Edwards, Mr. Handlin, Mr. Kropf

AH 102—Animal Science—2 cr. (2 and 0)

An introductory course in Animal Science to include beef cattle, swine, poultry, dairying, horses and sheep.

AH 104—Animal Science Laboratory—1 cr. (0 and 3)

The judging, grading, selection and management of farm animals is given considerable emphasis. Two laboratory periods are devoted to dairy production and manufacturing; and also two periods to poultry.

AH 301—Feeds and Feeding—3 cr. (3 and 0)

Feed nutrients, digestion, metabolism of feed stuffs, nutritive ratios, feeding standards, and the balancing of rations. *Prerequisite:* AH 102, 104 and Chem 220.

AH 303—Feeds and Feeding Laboratory—1 cr. (0 and 3)

Practical work in mixing and balancing rations and identifying feed stuffs. *Prerequisite:* AH 102, 104 and Chem 220 or consent of instructor.

AH 305—Meat Grading and Selection—2 cr. (1 and 3)

Classification, grading and selection of beef, lamb and pork carcasses and wholesale cuts. Factors influencing quality and value. Students enrolled in this course are eligible to compete in Intercollegiate Meat Judging Contests. *Prerequisite:* AH 102, 104.

AH 306—Judging—2 cr. (1 and 3)

Selection, breed characteristics and grading of beef cattle, sheep and swine. Students enrolled in this course are eligible to compete in the Southeastern Intercollegiate Livestock Judging Contest. *Prerequisite:* AH 102, 104.

AH 353—Meats—1 cr. (1 and 0)

The chemical and physical composition of meat, meat hygiene; nutritive value; curing; freezing; and meat by-products. *Prerequisite:* AH 102, 104.

AH 355—Meats Laboratory—2 cr. (0 and 6)
The selection and grading of meat animals and carcasses. Practical work in slaughtering of animals and in the cutting, curing and freezing of meats. Emphasis is placed on the identification of wholesale and retail cuts. *Prerequisite:* AH 102, 104.

AH 401—Beef Production—3 cr. (3 and 0)
Breeding, feeding, management and grading of beef cattle. Emphasis is placed on year-round grazing. *Prerequisite:* AH 301.

AH 403—Beef Production Laboratory—1 cr. (0 and 3)
Practical application of beef production practices. *Prerequisite:* AH 301.

AH 405—Advanced Judging—1 cr. (0 and 3)
A continuation of AH 306 for students who are interested in participating in judging contests or in receiving special training in the selection of breeding cattle, sheep and swine. Also judging and grading of market classes are considered. *Prerequisite:* AH 306.

AH 406—Seminar—2 cr. (2 and 0)
Special problems in animal production. Each student is given a subject on which he makes weekly reports of progress before seminar group. *Prerequisite:* AH 301.

AH 407—Horse and Sheep Production—2 cr. (2 and 0)
The breeding, feeding and care of horses and sheep; the shearing and marketing of sheep and wool; the adaptability of breeds; and parasite and disease control. *Prerequisite:* AH 301.

AH 408—Pork Production—3 cr. (3 and 0)
Feeding, breeding, management, and marketing of hogs. Emphasis is placed on winter and summer forages, protein supplements, mineral mixtures, and sanitation practices. In laboratory grading, selection, feeding, management and care of swine is given considerable attention. *Prerequisite:* AH 301.

AH 409—Horse and Sheep Production Laboratory—1 cr. (0 and 3)
Horse and sheep production practices. *Prerequisite:* AH 301.

AH 410—Pork Production Laboratory—1 cr. (0 and 3)
Practical application of swine production practices. *Prerequisite:* AH 301.

AH 452—Animal Breeding—3 cr. (3 and 0)
The fundamental principles relating to the breeding and improvement of livestock including variation, heredity, selection, linebreeding, inbreeding, cross-breeding and other related subjects. *Prerequisite:* Agron 302.

AH 502—Topical Problems—1-3 cr. (1-3 and 0)

AH 503—Meat Technology—3 cr. (3 and 0)

AH 504—Methods in Animal Breeding—3 cr. (3 and 0)

AH 505—Nutrition of Meat Animals—3 cr. (3 and 0)

AH 591—Research—3 cr.

AH 592—Research—3 cr.

ARCHITECTURE

MR. MCCLURE

MR. GUNNIN, MR. MEANS,* MR. SPEER, MR. YOUNG, MR. COOLEDGE,
MR. HUNTER, MR. MCMINN, MR. WILLIAMSON,
MR. CRAIG, MR. GORDON

ARCH 103—ARCHITECTURAL COMPUTATIONS—2 cr. (2 and 0)
Simple problems illustrating the application of mathematics to architectural procedures. Use of slide rule.

ARCH 105—VISUAL ARTS—2 cr. (0 and 6)
Elementary studio work in drawing, painting and related media.

ARCH 106—VISUAL ARTS—2 cr. (0 and 6)
Continuation of Arch 105.

ARCH 151—BASIC DESIGN COURSE GROUP—5 cr. (0 and 15)
Studio problems in visual fundamentals, including principles of graphic and three dimensional representation. Adjunct lectures and exercises in architectural theory and basic construction are included in the content of the course group.

ARCH 152—BEGINNING ARCHITECTURAL DESIGN COURSE GROUP—5 cr. (0 and 15)
Studio problems in elements of architecture, including principles of graphic and three dimensional representation. Lectures and exercises in architectural theory and basic construction are continued. *Prerequisite:* Arch 151 with C standing.

ARCH 205—VISUAL ARTS—2 cr. (0 and 6)
Studio working in drawing and painting.

ARCH 206—VISUAL ARTS—2 cr. (0 and 6)
Continuation of Arch 205.

ARCH 251—ARCHITECTURAL DESIGN COURSE GROUP—6 cr. (0 and 18)
The design of small buildings with attention to man's functional needs, aesthetics and simple structural analysis. Studio problems and related lectures. *Prerequisite:* Arch 152 with C standing.

ARCH 252—ARCHITECTURAL DESIGN COURSE GROUP—6 cr. (0 and 18)
Continuation of Arch 251. *Prerequisite:* Arch 251 with C standing.

ARCH 305—VISUAL ARTS—2 cr. (0 and 6)
Principles of Printmaking and solution of studio problems in the graphic arts.

ARCH 306—VISUAL ARTS—2 cr. (0 and 6)
Continuation of Arch 305.

ARCH 307—VISUAL ARTS—2 cr. (2 and 6)
Studio work in sculpture and related media.

ARCH 308—VISUAL ARTS—2 cr. (0 and 6)
Continuation of Arch 307.

ARCH 309—ARCHITECTURAL HISTORY I—2 cr. (2 and 0)
The architectural history of Western man from 15000 B.C. to A.D. 323, with particular attention to Mesopotamia, Egypt, Greece, and the Roman Empire.

* On leave.

Arch 310—Architectural History II—2 cr. (2 and 0)
The architectural history of Europe and the Near East from A.D. 323 to 1453, with particular attention to the Byzantine, pre-Romanesque, Romanesque, and Gothic schools of Western Europe.

Arch 351—Architectural Design Course Group—7 cr. (0 and 21)
The design of buildings of intermediate complexity with special attention to detail and development. Studio problems and related lectures. *Prerequisite:* Arch 252 with C standing.

Arch 352—Architectural Design Course Group—7 cr. (0 and 21)
Continuation of Arch 351. *Prerequisite:* Arch 351 with C standing.

Arch 403—Introduction to the Visual Arts—3 cr. (3 and 0)
A survey of man's production in the Visual Arts with particular attention to the environmental factors in society which demand art and a study of techniques used by the artist. Illustrated lectures and collateral reading.

Arch 405—Visual Arts—2 cr. (0 and 6)
Advanced studio work in painting. *Prerequisite:* Fourth-year standing.

Arch 406—Visual Arts—2 cr. (0 and 6)
Continuation of Arch 405.

Arch 407—Industrial Design—2 cr. (1 and 3)
The design of objects for everyday living, including presentation by drawing and model. *Prerequisite:* Third-year standing in Architecture or special permission.

Arch 408—Industrial Design—2 cr. (1 and 3)
Continuation of Arch 407. *Prerequisite:* Arch 407.

Arch 411—History of Arts—3 cr. (3 and 0)
Seminar in the Arts covering detailed study of some particular aspect or period. Limited to students with third-year standing and above.

Arch 412—History of Arts—3 cr. (3 and 0)
Continuation of Arch 411. *Prerequisite:* Arch 411.

Arch 413—Architectural History III—2 cr. (2 and 0)
The architectural history of Western Europe and the Americas from 1453 to 1775, with particular attention to the Renaissance, Baroque, and Revivalist schools.

Arch 414—Architectural History IV—2 cr. (2 and 0)
The architectural history of Western Europe and the Americas from 1775 to 1915 with particular attention to the architecture of the Industrial Revolution and the development of the academies.

Arch 415—Structural Methods—2 cr. (2 and 0)
A lecture course relating concrete and steel structural systems to contemporary considerations of function, aesthetics and economics. A special study is made of building codes and other regulations. *Prerequisite:* Fourth-year standing.

Arch 451—Architectural Design Course Group—8 cr. (0 and 24)
The programming and solution of complex building design problems, including interior and site development and Contract Documents. *Prerequisite:* Arch 352 with C standing.

ARCH 452—ARCHITECTURAL DESIGN COURSE GROUP—8 cr. (0 and 24)
Continuation of Arch 451. *Prerequisite:* Arch 451 with C standing.

ARCH 453—ADVANCED ARCHITECTURAL CONSTRUCTION—4 cr. (1 and 9)
A study of the methods, materials, and details involved in the construction of a complex multi-storied building. *Prerequisite:* Fourth-year standing.

ARCH 475—MECHANICAL PLANT—2 cr. (2 and 0)
A study of the water supply, plumbing, heating and ventilating systems of present-day buildings.

ARCH 476—MECHANICAL PLANT—2 cr. (2 and 0)
A study of air-conditioning, electrical systems, lighting, mechanical transportation and acoustics as applied to contemporary buildings. *Prerequisite:* Arch 475.

ARCH 480—ARCHITECTURAL OFFICE PRACTICE—2 cr. (2 and 0)
General consideration of architectural office procedures. Study of the professional relationship of the architect to client and contractor, including problems of ethics, law, and business.

ARCH 481—ARCHITECTURAL OFFICE PRACTICE—2 cr. (2 and 0)
A continuation of Arch 480. *Prerequisite:* Arch 480.

ARCH 491—ARCHITECTURAL AND TOWN PLANNING DESIGN—11 cr. (5 and 18)
Lectures and studio problems in advanced architectural design and Town Planning. Course content will include pre-Thesis studies. *Prerequisite:* Arch 452 with C standing.

ARCH 492—ARCHITECTURAL THESIS—11 cr. (5 and 18)
The student working individually will carefully program an environmental problem of appropriate scope, and conduct his own comprehensive research. He will make a complete oral, written and visual presentation of his solution. *Prerequisite:* Arch 491.

ARCH 493—STRUCTURAL THESIS RESEARCH—5 cr. (0 and 15)
Studio and laboratory research studies preliminary to undertaking a Thesis in Architectural Structures. *Prerequisite:* Arch 453.

ARCH 494—THESIS IN ARCHITECTURAL STRUCTURES—11 cr. (5 and 18)
The student working individually with laboratory and lecture support will prepare and present a Structural Thesis of appropriate scope and complexity. *Prerequisite:* Arch 493.

ARCH 511—HISTORY SEMINAR I—3 cr. (3 and 0)

ARCH 512—HISTORY SEMINAR II—3 cr. (3 and 0)

ARCH 515—STRUCTURAL SEMINAR I—3 cr. (2 and 3)

ARCH 516—STRUCTURAL SEMINAR II—3 cr. (2 and 3)

ARCH 551—PLANNING AND HOUSING SEMINAR I—3 cr. (2 and 3)

ARCH 552—PLANNING AND HOUSING SEMINAR II—3 cr. (2 and 3)

ARCH 561—GRADUATE ARCHITECTURAL DESIGN—9 cr. (3 and 18)

ARCH 592—GRADUATE THESIS—9 cr. (3 and 18)

BACTERIOLOGY

MR. EPPS

MR. RUSH MR. BOND

BACT 301—GENERAL BACTERIOLOGY—4 cr. (3 and 3)
Morphology, physiology, classification, distribution, and cultivation of microorganisms; effects of organisms on their environment; microorganisms and health. *Prerequisite:* Bot 101 or Zool 101 and 103; Chem 101 or 103; Chem 102 or 104.

BACT 312—FOOD MICROBIOLOGY—3 cr. (2 and 3)
The microbiology of natural and processed foods. The nature of microorganisms involved in food processing, food spoilage, and food poisoning. Methods of isolating, enumerating and identifying these organisms are conducted in the laboratory. *Prerequisite:* Bact 301.

BACT 401—ADVANCED BACTERIOLOGY—4 cr. (2 and 6)
Metabolism, nutrition, growth, and death of bacteria; microbiological assays, and industrial fermentation; emphasis on laboratory procedures for the identification of the more common taxonomic groups. *Prerequisite:* Bact 301; Chem 220 or 323 and 324.

BACT 402—DAIRY BACTERIOLOGY—3 cr. (2 and 3)
Morphology, physiology and culturing of microorganisms of importance in dairy products; standard methods for the determination of numbers of bacteria, yeasts, and molds in various dairy products. *Prerequisite:* Bact 301.

BACT 406—SANITARY BACTERIOLOGY—3 cr. (2 and 3)
The relation of bacteria to water purification and sewage disposal. Methods of water analysis, water purification, and sewage disposal are investigated in the laboratory. Public health aspects are stressed. *Prerequisite:* Chem 101 and 102.

BACT 410—SOIL MICROBIOLOGY—3 cr. (2 and 3)
The role of microorganisms in the decomposition of organic substances; transformation of nitrogen and mineral substances in the soil; interrelationships between higher plants and soil microorganisms; importance of microorganisms in soil fertility. *Prerequisite:* Bact 301.

BACT 501—BACTERIAL TAXONOMY—3 cr. (2 and 3)

BACT 502—BACTERIOLOGICAL TECHNIC—4 cr. (2 and 6)

BACT 503—SPECIAL PROBLEMS IN BACTERIOLOGY—2 cr.

BACT 505—PHYSIOLOGY OF BACTERIA—3 cr. (2 and 3)

BACT 510—SOIL MICROBIOLOGY—3 cr. (2 and 3)

BACT 591—RESEARCH—3 cr.

BACT 592—RESEARCH—3 cr.

BIOLOGY

(See *Biology Curriculum,* page 124)

BIOL 450T—BIOLOGY FOR HIGH SCHOOL TEACHERS—3 cr. (3 and 0)
The fundamental principles of biological processes are reviewed and expanded. Demonstrations, preparations, illustrations, and experiments suitable

for use in high school teaching are emphasized. Expressly designed for biology teachers in the secondary schools.

Biol 500T—Principles of Biology—3 cr. (2 and 3)

Biol 501T—The New Biology—3 cr. (3 and 0)

Biol 502T—The New Biology—3 cr. (3 and 0)

BOTANY

Mr. Epps

Mr. Rutledge, Mr. Whitney, Mr. Ashworth, Mr. Foster, Mr. Mathews, Mr. Witcher, Mr. Kingsland

Bot 101—General Botany—4 cr. (3 and 3)
The form, structure and physiology of the higher plants, followed by the algae, bacteria, fungi, liverworts, mosses and ferns, with the application of the biological laws. Descriptions, life histories and adaptation of representative organisms.

Bot 352—Plant Physiology—4 cr. (3 and 3)
The relations and processes which have to do with the maintenance, growth and reproduction of plants, including absorption of matter and energy, water relations of the plant, utilization of reserve products and liberation of energy. *Prerequisite:* Bot 101; Chem 101 and 102; Phys 201 and 203 or Phys 211 and 213.

Bot 355—Histology—2 cr. (0 and 6)
The principles of fixing, cutting and staining plant tissues and the various other processes of micro-technique and their application to specific forms of plants. *Prerequisite:* Bot 101; Chem 101 and 102.

Bot 356—Taxonomy—3 cr. (1 and 6)
The identification, classification, distribution and interrelationship of flowering plants with emphasis on the flora of South Carolina. *Prerequisite:* Bot 101.

Bot 401—Plant Pathology—3 cr. (2 and 3)
The major plant diseases of the South, their symptoms and control and the nature of the causal agents or factors. *Prerequisite:* Bot 101.

Bot 402—Economic Botany—3 cr. (2 and 3)
Plants and plant products and their relationship to human history and contemporary life. Sources of plant products, especially those outside the scope of courses in Agronomy and Horticulture. *Prerequisite:* Bot 101. Other students who present evidence of good scholarship may elect.

Bot 404—Cytology—4 cr. (3 and 3)
The morphological and chemical consideration of the cell, including the basic micro-techniques involved in preparing materials for microscopic study and a survey of animal and plant cell types. Cell division and meiosis and the relation of these to development, reproduction, and heredity. *Prerequisite:* Zool 101, 103, Bot 101, Chem 101 and Chem 102.

Bot 405—Forest Pathology—3 cr. (2 and 3)
Symptoms and causative agents of forest tree diseases; their prevention and control; their relation to silviculture, management, and utilization of forests. *Prerequisite:* Bot 101.

Bot 451—Morphology of the Fungi—3 cr. (2 and 3)

The morphology and taxonomy of the fungi, with special emphasis on methods of pure culture as they apply to parasitic and saprophytic forms. *Prerequisite:* Bot 101.

Bot 452—Ecology—4 cr. (2 and 6)

The fundamental principles of the relations between plants and environmental conditions with special attention to local ecological relationships and problems. *Prerequisite:* Bot 101.

Bot 455—Plant Morphology—4 cr. (2 and 6)

The structure of vegetative and reproductive parts of plants representing the major plant groups except bacteria and fungi. *Prerequisite:* Bot 101.

Bot 501—Physiology—4 cr. (2 and 6)

Bot 502—Mycology—3 cr. (2 and 3)

Bot 503—Plant Pathology—4 cr. (3 and 3)

Bot 504—Physiology of Parasitism in Plants—3 cr. (3 and 0)

Bot 505—Special Problems in Plant Pathology—Credit to be arranged

Bot 506—Control of Plant Diseases—2 cr. (2 and 0)

Bot 591—Research—3 cr.

Bot 592—Research—3 cr.

CERAMIC ARTS

Mr. Robinson, Mr. Fain

Cr Ar 101—Pottery Materials—3 cr. (2 and 3)

The occurrence and properties of pottery raw materials. Special attention is devoted to the occurrence of natural pottery materials in South Carolina, and the methods and equipment used in preparing these materials. A discussion is included on materials available from commercial supply houses.

Cr Ar 102—Pottery Drying and Firing—3 cr. (3 and 0)

The drying and firing processes used in pottery making. A discussion is included on the design and construction of simple pottery kilns and the student is required to build and operate a small outdoor kiln. The laboratory work demonstrates the drying and firing behavior of pottery.

Cr Ar 301—Pottery Glazes—3 cr. (3 and 0)

The materials and methods used in preparing glazes and a study of the methods used in decorating pottery products. *Prerequisite:* Cr Ar 101 and 102.

Cr Ar 401—Advanced Pottery—3 cr. (2 and 3)

The student is given advanced training in pottery techniques and pottery equipment. *Prerequisite:* Cr Ar 101 and 102.

CERAMIC ENGINEERING

MR. ROBINSON
MR. WILSON, MR. FAIN

CrE 201—INTRODUCTION TO CERAMIC ENGINEERING—2 cr. (2 and 0)
The unit operations of ceramic manufacture and the fundamentals that form the basis of these operations. In addition, a study is made of the properties of ceramic product, relating composition and particle or aggregate structure to these properties. Laboratory techniques for determining these properties are included in this course.

CrE 202—CERAMIC MATERIALS—3 cr. (3 and 0)
A study of the properties and uses of commonly used ceramic materials. Equilibrium diagrams are used to gain an understanding of the effect of heat on the materials.

CrE 204—LABORATORY PROCEDURES—1 cr. (0 and 3)
An introduction to ceramic laboratory procedures. Primary consideration will be given to the evaluation of sources of error and significance of measurement in the major ceramic test procedures.

CrE 302—THERMO-CHEMICAL CERAMICS—3 cr. (3 and 0)
High-temperature equilibrium using the laws of physical chemistry as applied to ceramic systems in both solid and liquid states. An introduction to the crystal chemistry of ceramic raw materials, and the effect of crystalline form on their high-temperature behavior.

CrE 303—INTRODUCTION TO MATERIAL SCIENCE—2 cr. (2 and 0)
A beginning course in material science designed primarily for engineering students. The electrical, mechanical and thermal properties of materials are studied on the basis of their atomic arrangement, their macrostructure and their manufacturing history.

CrE 304—EXPERIMENT DESIGN—1 cr. (0 and 3)
An exercise in the planning and organization of experiments in the ceramic field.

CrE 306—FUELS COMBUSTION AND HEAT TRANSFER—1 cr. (0 and 3)
A study of combustion devices, the calculation of combustion problems and heat transfer.

CrE 307—THE DRYING AND FIRING OF CERAMIC PRODUCTS—3 cr. (3 and 0)
The fundamentals, operation, design and control of the drying and firing operations. The study of heat transfer, fuels and combustion, movement of gases, evaporation and high temperature reactions is included in the course. Time is devoted to the methods of calculation of heat and air requirements and the determination of heat balances for dryers and kilns. The influence of particle and aggregate structure on speed and extent of reaction is part of this course. *Prerequisite:* CrE 202, Phys 212 and 214.

CrE 309—RESEARCH METHODS—2 cr. (0 and 6)
An exercise in the planning and solution of selected research problems.

CrE 402—SOLID STATE CERAMICS—3 cr. (3 and 0)
The effects of the composition, form, and shape of ceramic raw materials on the manufacturing processes and final properties of ceramic products. Included

are fundamental studies of such phenomena as deflocculation, plasticity, sintering and the behavior of ceramic products in electrical circuits. *Prerequisite:* Junior standing.

CrE 403—Glasses—3 cr. (3 and 0)

The glassy state of matter and the fundamental properties of glasses. A part of the course time is devoted to glass raw materials and manufacturing methods, together with a consideration of the use of glass for glass products, enamels, glazes and vitreous bonds. *Prerequisite:* Junior standing.

CrE 404—Enamels—3 cr. (3 and 0)

The raw materials, methods of manufacture, and properties of porcelain enamel coatings for metals. *Prerequisite:* CrE 302.

CrE 406—Ceramic Project—2 cr. (0 and 6)

The completion of an original research into a ceramic problem. *Prerequisite:* CrE 302.

CrE 407—Plant Design—3 cr. (1 and 6)

The application of the fundamentals of ceramic engineering to problems in plant design. *Prerequisite:* Senior standing in Ceramic Engineering.

CrE 410—Analytical Processes—3 cr. (3 and 0)

An introductory course on the theory and use of X-ray diffraction and spectroscopic methods. *Prerequisite:* Junior standing.

CrE 412—Raw Material Preparation—3 cr. (3 and 0)

The equipment and processes used in the crushing and grinding of raw materials, the separation and classification of particle sizes, and the separation and purification of minerals by mineral dressing methods.

CrE 416—Electronic Ceramics—3 cr. (3 and 0)

A study of the theory and measurement of the electronic properties of ceramic products.

CrE 418—Process Control—3 cr. (3 and 0)

Process control techniques and apparatus with particular emphasis on temperature measurement and control systems. The application of laboratory techniques to the control of product quality and process efficiency is included. *Prerequisite:* Junior standing.

CrE 419—Science of Engineering Materials—3 cr. (3 and 0)

This course is planned to acquaint the chemical, electrical, and mechanical engineers and the metallurgist with the refractory, electrical, corrosive, and abrasive characteristics of ceramic products. It emphasizes fundamental consideration of the structure of matter in the solid and glassy states, solid state reactions, and the influence of particle and aggregate structure to speed of reaction and product properties. The reasons for the properties of materials at elevated temperatures and room temperatures are related to these fundamentals. The course is intended to give engineers information that will help them design parts for high temperature applications such as in aircraft and nuclear plants, equipment that must withstand corrosion at elevated temperature or electronic equipment that must operate at elevated temperatures.

CrE 420—Science of Engineering Materials—3 cr. (3 and 0)
A continuation of CrE 419 with emphasis on applications of fundamentals in nuclear reactors and nuclear power plants. Consideration is given to the development of ceramics for fuel elements, moderator materials, control rods, shielding and in radioactive waste disposal.

CrE 501—Analytical Procedures and Equipment—3 cr. (2 and 3)

CrE 502—Silicate Crystallography—3 cr. (3 and 0)

CrE 503—Ceramics Production Control—3 cr. (3 and 0)

CrE 504—Ceramics Quality Control—3 cr. (3 and 0)

CrE 505—Drying—3 cr. (2 and 3)

CrE 506—Firing—3 cr. (2 and 3)

CrE 507—Specialized Ceramics—3 cr. (3 and 0)

CrE 591—Research—3 cr.

CrE 592—Research—3 cr.

CHEMICAL ENGINEERING

Mr. Littlejohn

Mr. Harshman, Mr. Meenaghan, Mr. Alley, Mr. Baasel, Mr. Barlage

ChE 204—Introduction to Chemical Engineering—2 cr. (1 and 3)
A course designed to acquaint students with the profession of Chemical Engineering and to introduce them to certain basic concepts and methods used by the chemical engineer. Topics include the chemical engineering literature, graphical methods of presenting data, graphical solutions to problems, process variables, stoichiometry, and PVT relations for gases. *Prerequisite:* Chem 104 and Math 106.

ChE 205—Introduction to Chemical Engineering—3 cr. (2 and 3)
A continuation of ChE 204. Topics to include properties of mixtures of gases and vapors, material and energy balances, equilibria in chemical systems, dimensional analysis, and economic considerations. *Prerequisite:* ChE 204, Math 205, and Phys 211.

ChE 301—Principles of Chemical Engineering—3 cr. (3 and 0)
The general principles of Chemical Engineering and a study of the following unit operations: Fluid Flow, Fluid Transportation, Heat Transmission and Evaporation. Special emphasis is placed on theory and its practical application. This is accomplished through the presentation of comprehensive calculations. *Prerequisite:* ChE 205, Phys 211 and 212, Math 206 and Junior standing.

ChE 302—Principles of Chemical Engineering—3 cr. (3 and 0)
The unit operations based on diffusion: Humidification and Air Conditioning, Extraction and Distillation. Special attention is given to theories involved and practical applications thereof. Theory is correlated with practice by the solution of comprehensive problems. *Prerequisite:* ChE 301 and Junior standing.

ChE 304—Elements of Food Process Engineering I—3 cr. (3 and 0)
A brief, theoretical treatment of several of the unit operations of chemical engineering that are encountered in the food industry. Topics will include

material and energy balances, fluid mechanics, heat transfer, and evaporation. Not open to Chemical Engineering majors. *Prerequisite:* Math 206 and Phys 212.

ChE 305—Elements of Food Process Engineering II—2 cr. (1 and 3)
A continuation of ChE 304 to include lectures in mass transfer and laboratory exercises, including comprehensive reports, in unit operations pertaining to food engineering. Not open to Chemical Engineering majors. *Prerequisite:* ChE 304.

ChE 306—Unit Operations—1 cr. (0 and 3)
Laboratory work in the unit operations of fluid flow, heat transfer, and evaporation. Stress is laid on the relation between theory and experimental results and on report writing. *Prerequisite:* ChE 301 and Junior standing.

ChE 331—Chemical Engineering Thermodynamics—3 cr. (3 and 0)
A first basic course in static equilibria. Topics include the First and Second Law of Thermodynamics, real and ideal gases, thermodynamic properties of fluids, phase changes, and heats of reaction. *Prerequisite:* Chem 331, Math 306, or enrollment in Math 306, and Junior standing; or permission of the Department Head.

ChE 401—Principles of Chemical Engineering—3 cr. (3 and 0)
The unit operations: Gas Absorption, Drying, Filtration, Crystallization, Mixing, Conveying, Size Reduction and Size Separation. Special emphasis is placed on theory and its practical application. Theory is related to practice by solution of comprehensive problems. *Prerequisite:* ChE 302; Senior standing.

ChE 407—Unit Operations—2 cr. (0 and 6)
Laboratory work for the diffusional unit operations. Competent technical reports are required. *Prerequisite:* Enrollment in ChE 401 and Senior standing.

ChE 409—Plant Design—2 cr. (0 and 6)
A detailed study of the design of a chemical plant involving such factors as process to be employed, equipment selection, specification writing and cost accounting, and plant location. *Prerequisite:* ChE 401 and 430; Senior standing. or permission of the Department Head.

ChE 411—Chemical Engineering Library Materials—1 cr. (0 and 3)
The first semester of the senior thesis. Thesis projects are assigned. The student reviews the literature of the chosen field and writes the literature review section of his thesis. The use of the technical literature in the solution of chemical engineering problems is stressed. *Prerequisite:* Completion of all required 300 courses in chemistry and chemical engineering and Senior standing.

ChE 412—Thesis—2 cr. (0 and 6)
The investigation of a research project in Chemical Engineering. A competent bachelor thesis is required. *Prerequisite:* ChE 401, 407, 411, 430, and Senior standing or permission of the Department Head.

ChE 415—Introduction to Nuclear Engineering—3 cr. (3 and 0)
Designed to acquaint the non-nuclear engineer with some of the engineering aspects of nuclear science. Topics include a brief survey of particle physics; nuclear reactions; energy transformations; nuclear reactors, their design, construction and use; radiation damage to materials of construction; and special problems in nuclear engineering peculiar to the basic engineering disciplines. *Prerequisite:* Senior standing.

ChE 416—Introduction to Nuclear Engineering—3 cr. (3 and 0)
A continuation of ChE 415; topics to include reactor principles, plutonium products, reactor types, materials of reactor construction, control instruments, and waste disposal. *Prerequisite:* ChE 415.

ChE 421—Dimensional Analysis and the Theory of Models—2 cr. (2 and 0)
Dimensional analysis and model theory as applied to engineering problems. Topics include units and dimensions, the method of dimensional analysis, elimination of trial and error calculations, similarity, and the use of models. Problems in all branches of engineering will be considered.

ChE 422—Industrial Waste Treatment—2 cr. (2 and 0)
This course is designed to acquaint the student with the various types of industrial waste and the treatments required to prevent further pollution of our natural water resources. Not open to Chemical Engineering majors.

ChE 423—Theory of Bio-Oxidation Processes—2 cr. (2 and 0)
This course is designed to cover the basic biochemical principles underlying bio-oxidation and their applications in activated sludge and trickling filter processes; basic theory of oxygen transfer and its application to the design of aeration equipment; and the design and operation of typical industrial waste treatment processes. *Prerequisite:* Chem 331 or permission of instructor.

ChE 430—Chemical Engineering Thermodynamics—3 cr. (3 and 0)
A continuation of ChE 331. Subjects include heat engines, compressors, refrigeration, phase equilibria and chemical reaction equilibria. *Prerequisite:* ChE 331 and Senior standing.

ChE 450—Chemical Engineering Kinetics—3 cr. (3 and 0)
An introduction to the kinetics of chemical reactions. Topics include homogeneous and heterogeneous reactions, batch and flow reaction systems, catalysis, and design of industrial reactors. *Prerequisite:* ChE 430 or permission of the Department Head.

ChE 452—Molecular and Turbulent Transport—3 cr. (3 and 0)
A theoretical treatment of the fundamental mechanisms of molecular and turbulent heat, mass, and momentum transport with the major emphasis given to the interrelation of all three mechanisms. Evaluation and correlation of transport properties and both steady state and unsteady state processes are considered. *Prerequisite:* Senior standing in Chemistry, Engineering, or Physics, and Math 306.

ChE 453—Analysis of Automatic Process Control—3 cr. (3 and 0)
A study of basic process control and the effect of feedback in various systems. The mathematical analysis of the dynamic response of process systems to step and sinusoidal changes. Determination of the optimum settings for various combinations of proportional, reset and derivative control. *Prerequisite:* Junior or Senior standing in Engineering, Physics, or Chemistry, and Math 306.

ChE 503—Heat, Mass, and Momentum Transfer—3 cr. (3 and 0)

ChE 504—Chemical Engineering Thermodynamics—3 cr. (3 and 0)

ChE 505—Chemical Engineering Kinetics—3 cr. (3 and 0)

ChE 506—Chemical Engineering Calculations I—3 cr. (3 and 0)

CHE 507—CHEMICAL ENGINEERING CALCULATIONS II—3 cr. (3 and 0)

CHE 508—CHEMICAL ENGINEERING DESIGN AND ANALYSIS—3 cr. (1 and 6)

CHE 509—WASTE TREATMENT—3 cr. (3 and 0)

CHE 510—BIOCHEMICAL ENGINEERING—3 cr. (3 and 0)

CHE 520—UNIT OPERATIONS—3 cr. (3 and 0)

CHE 521—UNIT OPERATIONS—3 cr. (3 and 0)

CHE 522—UNIT OPERATIONS—3 cr. (3 and 0)

CHE 530—CHEMICAL TECHNOLOGY—3 cr. (3 and 0)

CHE 540—GRADUATE LABORATORY—3 cr. (0 and 9)

CHE 545—SELECTED TOPICS IN CHEMICAL ENGINEERING—3 cr. (3 and 0)

CHE 546—SELECTED TOPICS IN CHEMICAL ENGINEERING—3 cr. (3 and 0)

CHE 547—SELECTED TOPICS IN CHEMICAL ENGINEERING—3 cr. (3 and 0)

CHE 552—AIR POLLUTION CONTROL PROCESSES—3 cr. (3 and 0)

CHE 553—INDUSTRIAL AIR HYGIENE—3 cr. (3 and 0)

CHE 591—RESEARCH—3 cr.

CHE 592—RESEARCH—3 cr.

CHE 603—TRANSPORT PHENOMENA—3 cr. (3 and 0)

CHE 604—CHEMICAL ENGINEERING THEROMODYNAMICS—3 cr. (3 and 0)

CHE 605—CHEMICAL ENGINEERING KINETICS—3 cr. (3 and 0)

CHE 645—SELECTED TOPICS IN CHEMICAL ENGINEERING—3 cr. (3 and 0)

CHE 646—SELECTED TOPICS IN CHEMICAL ENGINEERING—3 cr. (3 and 0)

CHE 647—SELECTED TOPICS IN CHEMICAL ENGINEERING—3 cr. (3 and 0)

CHE 691—DOCTORAL RESEARCH AND DISSERTATION—Credit to be arranged

CHEMISTRY

MR. BROWNLEY

MR. CARODEMOS, MR. DINWIDDIE, MR. HOBSON, MR. POLK, MR. BISHOP, MRS. BISHOP, MR. FANNING, MR. HODGES, MR. HUFFMAN, MR. LANDERS, MR. LINDSTROM, MR. MARULLO, MR. SALLEY, MR. SPENCER

CHEM 101—GENERAL CHEMISTRY—4 cr. (3 and 3)
The purpose of this course is to give the student a general knowledge of the fundamentals of the science of chemistry through lectures, lecture experiments, and laboratory exercises. Consideration is given to the common substances.

CHEM 102—GENERAL CHEMISTRY—4 cr. (3 and 3)
A continuation of Chem 101.

CHEM 103—GENERAL CHEMISTRY—4 cr. (3 and 3)
This course is required of students majoring in Chemistry, Ceramic Engineering, Chemical Engineering, Textile Chemistry, Physics, or Pre-Medicine. It is similar to Chem 101 except that it gives a more thorough covering of those fundamentals which are necessary for advanced work in chemistry.

Chem 104—General Chemistry—3 cr. (3 and 0)
A continuation of the theory part of Chem 103.

Chem 106—Qualitative Analysis—2 cr. (0 and 6)
The systematic separation and identification of the common cations and anions in the laboratory.

Chem 216—Quantitative Analysis—5 cr. (3 and 6)
The fundamental principles of Quantitative Analysis and their application in the analysis of unknown mixtures in the laboratory. Standard volumetric and gravimetric procedures are employed. *Prerequisite:* Chem 101 and 102 or 104 and 106.

Chem 218—Quantitative Analysis—3 cr. (3 and 0)
Covers the theory only of Chem 216 and is designed primarily for graduate students in other departments. *Prerequisite:* Chem 101 and 102 or 104 and 106 and permission of the instructor.

Chem 219—Chemical Principles—2 cr. (2 and 0)
A study of the fundamental laws and theories of inorganic chemistry based upon the periodic classification of the elements. The solution of chemical problems is stressed. *Prerequisite:* Chem 104 and 106.

Chem 220—Elementary Organic Chemistry—4 cr. (3 and 3)
The fundamentals of organic chemistry which will aid the student of agriculture to understand the various biochemical reactions which are involved in the study of plant and animal nutrition. *Prerequisite:* Chem 101 and 102.

Chem 310—Agricultural Biochemistry—4 cr. (3 and 3)
A brief review of carbohydrate, fat and protein chemistry. The digestive action of the mouth, stomach and intestine is covered in detail. The chemical factors and theories relating to plant growth are discussed. The laboratory work consists of the analysis of natural products. *Prerequisite:* Chem 220.

Chem 321—Principles of Organic Chemistry—4 cr. (3 and 3)
This course is designed primarily for Chemical Engineering students and requires less laboratory than Chem 323.

Study of the aliphatic compounds with special emphasis upon structural characteristics of the various classes. In the laboratory, typical compounds are prepared in which technique, purity and yield are stressed. *Prerequisite:* General Chemistry.

Chem 322—Principles of Organic Chemistry—4 cr. (3 and 3)
Continuation of Chem 321 in which alicyclic, heterocyclic, and aromatic compounds are thoroughly studied. Typical members of these series of compounds are synthesized in the laboratory in which technique, purity and yield are stressed. *Prerequisite:* Chem. 321.

Chem 323—Principles of Organic Chemistry—5 cr. (3 and 6)
Study of the aliphatic compounds with special emphasis upon structural characteristics of the various classes. In the laboratory, typical compounds are prepared in which technique, purity and yield are stressed. *Prerequisite:* Chem 101 or 103, and 102, or 104 and 106.

Chem 324—Principles of Organic Chemistry—5 cr. (3 and 6)
Alicyclic, heterocyclic, and aromatic compounds are thoroughly studied. Typical members of these series of compounds are synthesized in the laboratory in which technique, purity and yield are stressed. *Prerequisite:* Chem 323.

Chem 331—Physical Chemistry—3 cr. (3 and 0)
The student is given a foundation in the elements of thermodynamics and the kinetic theory. These theories are applied to the states of matter, solutions, and phase and reaction equilibria. *Prerequisite:* Math 205 and 206, Chem 216.

Chem 332—Physical Chemistry—3 cr. (3 and 0)
A continuation of Chem 331 which will include theories of atomic and molecular structure, colloidal studies, kinetics of chemical processes, and electrochemistry.

Chem 333—Physical Chemistry Laboratory—2 cr. (0 and 6)
Experiments designed to illustrate the physical chemistry theory studied in Chem 331. *Prerequisite:* Registration in Chem 331.

Chem 334—Physical Chemistry Laboratory—2 cr. (0 and 6)
A continuation of Chem 333. *Prerequisite:* Registration in Chem 332.

Chem 339—Physical Chemistry Laboratory—1 cr. (0 and 3)
Experiments are selected to be of maximum value to Chemical Engineering majors. *Prerequisite:* Registration in Chem 331.

Chem 340—Physical Chemistry Laboratory—1 cr. (0 and 3)
A continuation of Chem 339. *Prerequisite:* Registration in Chem 332.

Chem 402—Inorganic Chemistry—3 cr. (3 and 0)
A comprehensive survey of the field of inorganic chemistry through lectures and lecture experiments. Development of modern theories of atomic structure and valence, and a detailed study of the elements and their compounds, based on the periodic system and including both well-known and rarer elements. *Prerequisite:* Chem 216. *Suggested:* Chem 331 and 332.

Chem 411—Instrumental Analysis—4 cr. (2 and 6)
Demonstration and operation of modern optical and electronic precision measuring devices as they apply to the processes and analytical, physical and organic chemistry. *Prerequisite:* Physical Chemistry.

Chem 421—Qualitative Organic Analysis—4 cr. (2 and 6)
Systematic identification of pure organic compounds and mixtures. *Prerequisite:* Organic Chemistry.

Chem 423—General Biochemistry—4 cr. (3 and 3)
A review of the basic chemical characteristics of carbohydrates, fats, proteins and minerals used as foods. A study is also made of enzyme action and digestion as carried on in the mouth, stomach and small intestine as well as the metabolism and calorimetry of foods. The composition of the blood and urine is investigated, as well as the detoxification of some of the by-products of digestion. An introduction to the endocrine glands and their secretions as well as chemistry of vitamins are included in the course. *Prerequisite:* Organic and physical chemistry.

Chem 424—General Biochemistry—4 cr. (3 and 3)
A continuation of Chem 423.

CHEM 441—GLASS MANIPULATION—2 cr. (0 and 6)
A course designed to teach the fundamentals of glass manipulation and its application to the construction and repair of simple laboratory apparatus. *Prerequisite:* Senior standing.

CHEM 442—CHEMICAL LITERATURE—2 cr. (1 and 3)
This course is designed to give the student practice in the use of chemical literature, the writing of technical reports and the presentation of same before the faculty of the School of Chemistry. *Prerequisite:* Junior standing in Chemistry.

CHEM 443—RESEARCH PROBLEMS—3 cr. (0 and 9)
Original investigation of an assigned problem in a fundamental branch of Chemistry. This work must be carried out under the supervision of a qualified member of the staff. *Prerequisite:* Senior standing in Chemistry.

CHEM 444—RESEARCH PROBLEMS—3 cr. (0 and 9)
A continuation of Chem 443.

CHEM 450T—REVIEW OF GENERAL CHEMISTRY I—3 cr. (3 and 0)
A lecture course designed to deal, in a mature and comprehensive manner, with the basic principles generally presented in a general chemistry course. Emphasis will be placed upon the explanation of observed facts in terms of modern atomic and molecular structure.

CHEM 454—INORGANIC SYNTHESIS—2 cr. (0 and 6)
A laboratory course designed to acquaint the student with various methods and techniques employed in the preparation and handling of inorganic compounds. *Prerequisite:* Chem 401.

CHEM 472—ORGANIC SYNTHESIS—4 cr. (2 and 6)
The course is designed to teach the student techniques and principles as applied in a research laboratory. Both macro and semi-micro methods are used in the preparation of several organic compounds. *Prerequisite:* Organic Chemistry.

CHEM 491—INTRODUCTION TO RADIOCHEMISTRY—3 cr. (2 and 3)
A study of the natural and synthetic radioisotopes, including the consideration of atomic and nuclear structure, properties of radiation and tracer techniques and their application. The laboratory is concerned with the methods of detection and measurement of the various types of radiation and the various applications of tracer techniques. *Prerequisite*: Senior or Graduate standing and permission of instructor.

CHEM 505—ADVANCED INORGANIC CHEMISTRY—3 cr. (3 and 0)

CHEM 507—COORDINATION CHEMISTRY—3 cr. (3 and 0)

CHEM 511—ADVANCED ANALYTICAL CHEMISTRY—3 cr. (3 and 0)

CHEM 512—CHEMICAL SPECTROSCOPIC METHODS—3 cr. (2 and 3)

CHEM 521—ORGANIC CHEMISTRY I—3 cr. (3 and 0)

CHEM 522—ORGANIC CHEMISTRY II—3 cr. (3 and 0)

CHEM 523—ORGANIC REACTION MECHANISMS—3 cr. (3 and 0)

CHEM 524—FUNDAMENTAL PRINCIPLES OF POLYMER CHEMISTRY—3 cr. (3 and 0)

CHEM 525—CURRENT TOPICS IN ORGANIC CHEMISTRY—1 cr. (1 and 0)

CHEM 530—PHYSICAL CHEMISTRY—3 cr. (3 and 0)

CHEM 531—PHYSICAL CHEMISTRY I—3 cr. (3 and 0)

CHEM 532—PHYSICAL CHEMISTRY II—3 cr. (3 and 0)

CHEM 533—CHEMICAL THERMODYNAMICS—3 cr. (3 and 0)

CHEM 534—CHEMICAL THERMODYNAMICS—3 cr. (3 and 0)

CHEM 535—CHEMICAL KINETICS—3 cr. (3 and 0)

CHEM 541—ATOMIC AND MOLECULAR STRUCTURE—3 cr. (3 and 0)

CHEM 550T—A REVIEW OF GENERAL CHEMISTRY II—3 cr. (2 and 3)

CHEM 551—CHEMISTRY SEMINAR—0 to 2 cr.

CHEM 552—CHEMISTRY SEMINAR—0 to 2 cr.

CHEM 591—RESEARCH—3 cr.

CHEM 592—RESEARCH—3 cr.

CHEM 621—HETEROCYCLIC COMPOUNDS—3 cr. (3 and 0)

CHEM 622—STEREOCHEMISTRY—3 cr. (3 and 0)

CHEM 623—CHEMISTRY OF NATURAL PRODUCTS—3 cr. (3 and 0)

CHEM 624—CURRENT TRENDS IN ORGANIC CHEMISTRY—1 cr. (1 and 0)

CHEM 625—CHEMISTRY OF NATURAL PRODUCTS—3 cr. (3 and 0)

CHEM 632—COLLOID CHEMISTRY—3 cr. (3 and 0)

CHEM 650—MICROANALYTICAL TECHNIQUES—3 cr. (1 and 6)

CHEM 691—DOCTORAL RESEARCH AND DISSERTATION—Credit to be arranged.

CIVIL ENGINEERING

MR. RICH

MR. TRIVELY, MR. FORD, MR. MCCORMAC, MR. MCCUTCHEN, MR. ROSTRON

CE 200—ELEMENTARY SURVEYING—2 cr. (1 and 3)
Field work and computations for simple surveys involving use of all basic surveying instruments. *Prerequisite:* Math 105.

CE 203—TOPOGRAPHIC SURVEYING AND MAPPING—1 cr. (0 and 3)
Field and office work necessary to make a complete topographic map, including contours of a prescribed area. For forestry students only. *Prerequisite:* Math 105, CE 200.

CE 301—SURVEYING—3 cr. (2 and 3)
Care and adjustment of all surveying instruments; mathematical principles involved in making surveys; field and office work necessary to make a detailed map, including contours of a prescribed area; special surveying problems, including solar and stellar observations. *Prerequisite:* CE 200, Math 105. (CE 301 taught in summer only.)

CE 305—ROUTE SURVEYING—3 cr. (2 and 3)
Special problems in connection with the location of a route for a railroad, highway, canal, sewer, water main or transmission line; theory of simple,

compound and reversed curves; parabolic curves, transition, spiral, vertical curves, railroad turnouts; computations of earthwork. Field work includes a route survey for a highway. *Prerequisite:* Accompanied or preceded by CE 301. (CE 305 taught in summer only.)

CE 308—STRUCTURAL ANALYSIS—4 cr. (3 and 3)
Analytical and graphical analysis of beams, trusses, and frames. *Prerequisite:* EM 304.

CE 319—GENERAL PHOTOGRAMMETRY—3 cr. (2 and 3)
Fundamentals of mapping by the use of aerial photographs; characteristics, production and use of aerial photographs; study of the operation of popular photogrammetric instruments including aerial cameras, stereoscopic viewing and plotting equipment; practice in the use of stereocomparagraph and multiplex plotting instruments; scale, tilt, and coordinate calculations; construction of photomosaics. *Prerequisite:* CE 301 and Junior standing.

CE 404—CONCRETE STRUCTURES—4 cr. (3 and 3)
Design of basic concrete members using the elastic theory. Introduction to prestressed concrete and ultimate design. *Prerequisite:* CE 308 and Senior standing.

CE 405—ENVIRONMENTAL ENGINEERING—4 cr. (3 and 3)
A consideration of the water and air contacts in the human environment, an evaluation of their effect on man's well-being, and the analysis and design of engineering systems used in their control. *Prerequisite:* EM 401 and Senior standing.

CE 406—TRANSPORTATION ENGINEERING—3 cr. (2 and 3)
Elements of design, location and construction of highways, railroads, airports and other transportation facilities, including a study of the various paving and roadbed materials, earthwork operations, soil and drainage problems involved in such construction. Planning and administration of various transportation systems. *Prerequisite:* CE 301, CE 305, CE 414, and Senior standing.

CE 407—STRUCTURAL DESIGN—4 cr. (3 and 3)
Design and detail of the components of wood and steel structures. *Prerequisite:* CE 308 and Senior standing.

CE 408—MATERIALS AND METHODS OF CONSTRUCTION—3 cr. (3 and 0)
A survey of the principal materials, methods and equipment used in the construction industry. *Prerequisite:* Senior standing.

CE 413—WATER AND WASTE TREATMENT TECHNOLOGY—3 cr. (2 and 3)
Theory and control of the physical, chemical and biological processes employed in water and waste water treatment. *Prerequisite:* CE 405 and Senior standing.

CE 414—SOIL MECHANICS—3 cr. (2 and 3)
Mechanical and physical properties of soils and their relation to soil action in problems of engineering, such as classification, permeability, shearing strength, consolidation, stress distribution and bearing capacity of soils. *Prerequisite:* EM 304 and Senior standing.

CE 416—STRUCTURAL DESIGN—4 cr. (3 and 3)
Design and detail of the components of wood, steel and concrete structures. For Architectural students only. *Prerequisite:* CE 308.

CE 420—CONCRETE TECHNOLOGY—1 cr. (0 and 3)
Investigation and selection of aggregates for concrete; latest methods of design of concrete mixes; field control and adjustments; air-entrained concrete; field trips to nearby construction jobs. *Prerequisite:* Preceded or accompanied by CE 404.

CE 422—ENGINEERING RELATIONS—3 cr. (3 and 0)
Business, legal and ethical relations in engineering practice. *Prerequisite:* Econ 201 and senior standing.

CE 434—CONSTRUCTION COSTS AND ESTIMATES—3 cr. (2 and 3)
Interpretation of specifications and plan reading necessary for the proper estimation of quantities of materials and costs of engineering structures. The course is presented from both the designer's and the constructor's viewpoint in order to fit the young engineer with the essential details an inspector or a construction engineer should have at his command. *Prerequisite:* Senior standing.

CE 452—ADVANCED STRUCTURAL ANALYSIS—2 cr. (2 and 0)
Various methods for computing the deflections of beams and trusses. *Prerequisite:* CE 308 and Senior standing.

CE 501—STRUCTURAL ENGINEERING I—3 cr. (2 and 3)

CE 502—STRUCTURAL ENGINEERING II—3 cr. (2 and 3)

CE 503—MODEL ANALYSIS—3 cr. (2 and 3)

CE 510—HIGHWAY SAFETY AND TRAFFIC CONTROL—2 or 3 cr. (2 and 0) or (3 and 0)

CE 511—HIGHWAY DESIGN—3 cr. (2 and 3)

CE 519—HIGHWAY RESEARCH—2 to 4 cr.

CE 520—CONCRETE MIXES AND MATERIALS—3 cr. (2 and 3)

CE 531—SOIL ENGINEERING—3 cr. (2 and 3)

CE 541—SANITARY ENGINEERING ANALYSES—3 cr. (2 and 3)

CE 542—SANITARY ENGINEERING PROCESSES—3 cr. (3 and 0)

CE 543—UNIT OPERATIONS OF SANITARY ENGINEERING—3 cr. (3 and 0)

CE 589—SPECIAL PROBLEMS I—1-3 cr.

CE 590—SPECIAL PROBLEMS II—1-3 cr.

CE 591—RESEARCH—3 cr.

CE 592—RESEARCH—3 cr.

DAIRY SCIENCE

MR. GOODALE
MR. HURST, MR. KING, MR. BRANNON, MR. HENNINGSON,
MR. JANZEN, MR. LAZAR

DY SC 201—INTRODUCTORY DAIRYING—3 cr. (2 and 3)
A course designed to give a practical working knowledge of Dairy husbandry and dairy products. Studies include history of dairying, dairy breeds, feeds and feeding, judging dairy animals, dairy farm buildings, quality milk produc-

tion, testing milk and some of its products, the manufacture of milk products and the value of milk and milk products.

Dy Sc 302—Dairy Technology and Engineering—3 cr. (2 and 3)
Major subjects covered are physical and chemical properties of milk, power transmission, electrical power and equipment, hydraulics and pumping, heat measurement and control, steam and its use in the dairy, principles of refrigeration, insulation and cold storage rooms, heaters and coolers, storage tanks, ice cream freezers, homogenizers, pasteurizers, concentrators, equipment maintenance, and plant design. *Prerequisite:* Junior standing.

Dy Sc 303—The Chemical and Physical Nature of Milk—3 cr. (2 and 3)
The nature and properties of the major and minor constituents of milk, the effect of chemical and physical treatment on milk constituents, and analytical methods necessary to determine the composition and properties of milk and its constituents. The philosophy and development of quality control.

Dy Sc 304—Judging Dairy Products—2 cr. (1 and 3)
Flavor and physical qualities of ice cream, milk, cheese and butter are related to processing methods and market acceptance. A concept of quality is formed through examination of various grades of each product. Actual practice in taste panels illustrates their use in the food industry. *Prerequisite:* Junior standing.

Dy Sc 307—Market Milk—3 cr. (2 and 3)
Composition, procurement, processing, distribution, quality control, public health aspects, basis chemistry and bacteriology of industrial milk supplies and cultured products. *Prerequisite:* Dy Sc 201.

Dy Sc 310—Dairy Cattle Judging—1 cr. (0 and 3)
Students are given an understanding of dairy form, breed type, and relations between form and function of dairy cattle. Emphasis is placed on the score card, show ring requirements and classifications, fitting dairy cattle for show and sale, values as influenced by form, buying dairy cattle, practice in judging Brown Swiss, Guernsey, Holstein and Jersey cattle of all ages. *Prerequisite:* Junior standing.

Dy Sc 351—Advertising and Merchandising—3 cr. (3 and 0)
General broad subjects covered are development of advertising, economics and functions of advertising, truth in advertising, research of product and market, channels of trade, comparison of advertising and personal selling, present-action and future-action advertising, the appeals, writing the copy, trade marks and slogans, illustrations, typography and printing, color, layouts, mediums, agencies, campaigns testing, and dealer relations. *Prerequisite:* Junior standing.

Dy Sc 403—Animal Nutrition—3 cr. (3 and 0)
A basic understanding of the chemistry and physiology of digestion and metabolism of carbohydrates, lipids, proteins, minerals and vitamins by farm animals. The effects of antibiotics and other additives are included. Maintenance, growth, reproduction and lactation are studied in relation to the physiological requirements. *Prerequisite:* Chem 220 and AH 301.

Dy Sc 404—Dairy Plant Management—3 cr. (2 and 3)
The functions and operations and the application of business and factory management practices in the dairy plant. The course also includes the manu-

facture of creamery butter and the processing of soft cheeses. *Prerequisite:* Dy Sc 201 and 302.

Dy Sc 405—Dairy Manufactures—4 cr. (3 and 3)
The principles and practice of the manufacture of ice cream and related dairy products, the principles of the manufacture of condensed and evaporated milks and milk powders, and the physical, chemical and biological factors involved. *Prerequisite:* Dy Sc 201 and 302.

Dy Sc 407—Cheese and Butter Manufacture—3 cr. (2 and 3)
Theory and practice of the manufacture, curing and marketing of Blue, Cheddar, Swiss and other cured cheeses. Principles and practices of creamery buttermaking with emphasis on butter plant management. Students will become familiar with grading, neutralizing, pasteurizing, and churning cream. *Prerequisite:* Senior standing and permission of instructor for admission of juniors.

Dy Sc 409—Dairy Science Seminar—2 cr. (2 and 0)
Special research problems in production and manufactures are studied. Individual topics not fully covered in class work are assigned for special report before class and some members of Dairy Science Staff. *Prerequisite:* Senior standing.

Dy Sc 410—Dairy Science Seminar—2 cr. (2 and 0)
A continuation of Dy Sc 409 with emphasis on current research literature and research methods. *Prerequisite:* Senior standing.

Dy Sc 452—Dairy Cattle Feeding and Management—3 cr. (2 and 3)
Fundamental principles in the care, feeding, and management of dairy cattle of all ages. Topics include general considerations in selecting a breed and the individual cow, calf raising, growth and development of dairy heifers, care and management of the milking herd and feeding for milk production. *Prerequisite:* Senior standing.

Dy Sc 453—Reproduction of Farm Animals—3 cr. (3 and 0)
A study of basic reproductive physiology in cattle, sheep, and swine. Emphasis will be placed on factors affecting fertility and sterility. Offered in alternate years. *Prerequisite:* Senior standing or by permission of the instructor for admission of juniors.

Dy Sc 458—Artificial Insemination of Farm Animals—3 cr. (2 and 3)
Artificial insemination as applied to cattle, sheep, and swine. Studies are made of semen collection and its subsequent evaluation and processing. Practical work includes artificial insemination practice and study of breeding cooperatives. Offered in alternate years. *Prerequisite:* Junior standing.

Dy Sc 501—Topical Problems—1 to 3 cr.

Dy Sc 502—Genetics of Dairy Cattle Improvement—3 cr. (3 and 0)

Dy Sc 503—Physiology of Reproduction and Milk Secretion—3 cr. (3 and 0)

Dy Sc 504—Endocrinology—3 cr. (3 and 0)

Dy Sc 505—Newer Knowledge of Dairy Nutrition—3 cr. (3 and 0)

Dy Sc 507—Fermented Dairy Products—3 cr. (2 and 3)

Dy Sc 508—Industrial Dairy Science—3 cr. (3 and 0)

Dy Sc 591—Research—3 cr.

Dy Sc 592—Research—3 cr.

ECONOMICS

Mr. Macaulay, Mr. Hill, Mr. Whitten,* Miss Brown, Mr. Pearce, Mr. Skelton,* Mr. Thompson, Mr. Wheeler, Mr. Baff, Mr. Baugher, Mr. Farnsworth

Econ 201—Principles of Economics—3 cr. (3 and 0)
The fundamental principles of production, distribution and consumption with special consideration of their relationships to business organizations and governmental regulations in our economy.

Econ 202—Principles of Economics—3 cr. (3 and 0)
Continuation of Econ 201 with emphasis on current economic problems. *Prerequisite:* Econ 201.

Econ 301—Labor Problems—3 cr. (3 and 0)
The economics of the labor market, the problems of the industrial worker, and the methods of adjusting labor-management disputes. *Prerequisite:* Econ 201 and 202 or permission of the instructor.

Econ 302—Money and Banking—3 cr. (3 and 0)
Consideration of monetary systems, foreign exchange, credit instruments, and financial institutions; credit control, monetary stabilization, banking regulation and reform. *Prerequisite:* Econ 201 and 202.

Econ 305—Investment Analysis—3 cr. (3 and 0)
A study of techniques useful in analyzing alternative investment opportunities, with emphasis on corporate securities. Investment planning and portfolio management are considered. *Prerequisite:* Econ 201.

Econ 306—Risk and Insurance—3 cr. (3 and 0)
Studies the nature of risk and the role of insurance in risk management from individual and business viewpoints by considering insurance carriers, contracts, underwriting and regulation. *Prerequisite:* Econ 201.

Econ 308—Collective Bargaining—3 cr. (3 and 0)
A study of the practices, procedures, legal foundations, and legal structure associated with collective bargaining. The form and content of the labor contract, the grievance machinery, and the mediation and arbitration institutions will also be studied. *Prerequisite:* Econ 201.

Econ 312—Commercial Law—3 cr. (3 and 0)
An introduction to business law with primary attention given to contracts, agency and negotiable instruments and sales. *Prerequisite:* Junior standing.

Econ 313—Commercial Law—3 cr. (3 and 0)
Continuation of Econ 312 with emphasis on business organization, personal and real property, trade regulations and related topics. *Prerequisite:* Econ 312.

Econ 314—Intermediate Economic Theory—3 cr. (3 and 0)
An analytical study of the basic concepts of value and distribution under alternative market conditions. *Prerequisite:* Econ 201 and 202.

* On leave.

Econ 403—Development of Economic Thought—3 cr. (3 and 0)
Considers writings of economists, the problems they faced and the solutions offered, and the role of their theories in present day economic theory. *Prerequisite:* Econ 201 and 202.

Econ 404—Comparative Economic Systems—3 cr. (3 and 0)
A comparative analytical and historical study of the principal economic systems which have been important in the modern world including, among others, capitalism and socialism. *Prerequisite:* Econ 201 and permission of instructor.

Econ 406—Business Fluctuations—3 cr. (3 and 0)
A study of the internal and external causes of depressions and inflations, of the interrelationships between causes, and the possible remedies for the situation. *Prerequisite:* Econ 201 and 202 and permission of the instructor.

Econ 407—National Income and Employment Analysis—3 cr. (3 and 0)
An intensive study of selected economic theories with special emphasis on income and employment. Part of the course is devoted to the analysis of national income accounts and income. *Prerequisite:* Econ 201 and permission of instructor.

Econ 412—International Trade and Economic Development—3 cr. (3 and 0)
The organization and operation of the international economy with emphasis on the theory and practice of international trade, international investment, and the development of underdeveloped nations. *Prerequisite:* Econ 201 and 202.

Econ 416—Development of the Modern Economy—3 cr. (3 and 0)
An analysis of the historical forces and influences which have contributed to the emergence and development of the modern economy. *Prerequisite:* Econ 201 and permission of instructor.

Econ 420—The Economics of Taxation—3 cr. (3 and 0)
A study of the equity, welfare, and incentive effects of taxation, the effect of taxes on resource allocation, investment, and economic growth; and certain problems, such as averaging, taxation of public utilities, and tax reform. *Prerequisite:* Econ 314 or equivalent.

Econ 500—Advanced Economic Analysis—3 cr. (3 and 0)

Econ 510—Seminar in Economic Analysis—3 cr. (3 and 0)

Econ 512—Seminar in the Development of Economic Thought—3 cr. (3 and 0)

Econ 521—Economic Theory I—3 cr. (3 and 0)

Econ 522—Economic Theory II—3 cr. (3 and 0)

EDUCATION

Mr. Landrith, Mr. Castles, Mr. Davis, Mr. Brock, Mr. Ware, Mr. Rodgers

Ed 201—Principles of Education—3 cr. (3 and 0)
A study of the basic principles and functions of the public schools, with emphasis on procedures used in South Carolina. It includes a brief history of the development of American public high schools, an analysis of the financial resources for their operation, and a survey of the more familiar patterns of organization. (Not open to students who have completed Ed 305.)

Ed 236T—Resources Use Education—3 cr. (3 and 0)
This course centers around local, state and national resources and resource people and aims to develop understanding and coordination between the school community and its surroundings. (Offered in Summer Session only.)

Ed 302—Educational Psychology—3 cr. (3 and 0)
Nature, capacities, equipment, growth and development of the learner; role of the environment; nature and promotion of learning; growth and maturity of personality; and evaluation of progress in education.

Ed 327T—Teaching of Science in the Elementary School—3 cr. (3 and 0)
This course is intended to provide teachers with a basic background for the teaching of science to elementary school children. (Offered in Summer Session only.)

Ed 332—Organization of Courses of Study—3 cr. (3 and 0)
An analysis of the scope, functions and types of secondary school curriculums. Consideration is given to criteria for judging the secondary school curriculum and ways of improving existing programs.

Ed 335—Adolescent Growth and Development—3 cr. (3 and 0)
Principles of growth and development of the adolescent youth.

Ed 342T—Principles and Practices of Health and Physical Education—3 cr. (3 and 0)
The needs of boys and girls are placed in focus with respect to facts from the biological, physical and social sciences. Principles underlying contemporary theory and practice in health and physical education are emphasized. An effort is made to develop an understanding of the significance of the constructive value of play and recreation. (Offered in Summer Session only.)

Ed 371T—Language Arts in the Elementary School—3 cr. (3 and 0)
In this course ways are studied to make the subject areas of language practical and effective tools for the elementary child's use. It includes reading, language usage, both oral and written, spelling, handwriting and literature. (Offered in Summer Session only.)

Ed 372T—Arts and Crafts for the Elementary Child—3 cr. (3 and 0)
This course deals with creative expression and appreciation, basic art principles and the use of various art materials and media, including poster and finger painting, clay modeling, simple work with wood and paper. (Offered in Summer Session only.)

Ed 381T—Methods and Materials of Teaching in Elementary Schools—3 cr. (3 and 0)
This course gives particular attention to the latest acceptable methods in techniques for presenting materials of instruction, special techniques, observation and evaluation of teaching elementary school children. (Offered in Summer Session only.)

Ed 386T—Health Education in the Elementary Schools—3 cr. (3 and 0)
This course is designed to acquaint prospective teachers of elementary school pupils with healthful attitudes and practices which are basic to effective living, such as those in nutrition, personal cleanliness, clothing, housing, food conserva-

tion, and individual growth. Special emphasis will be placed on a program of healthful living for the child, at home and at school. (This course is required of all candidates for certification in elementary education.) (Offered in Summer Session only.)

Ed 387T—Remedial Reading—3 cr. (3 and 0)

This course covers means and methods of determining the reading level of the individual; methods of instruction for increasing reading ability, and materials of instruction that will aid in helping the individual attempt to reach his maximum level. (Offered in Summer Session only.)

Ed 412—Directed Teaching in High School Subjects—6 cr. (1 and 15)

A program of supervised observation and teaching in cooperation with selected public schools in which opportunities are provided for prospective teachers to secure experience in their chosen areas of instruction. (Enrollment is subject to individual approval of instructor in charge and is limited to seniors or graduate students who have completed prerequisite courses.)

Ed 424—Techniques of Teaching—3 cr. (3 and 0)

Instructional practices appropriate in secondary schools based on research and developments in educational theory and teaching techniques. Through lectures, panel work, audio-visual aids and other activities, the basis is laid for developing skillful teaching practices within the student's chosen area of instruction.

Ed 453—Child Growth and Development—3 cr. (3 and 0)

Child growth and development as related to the problems of teaching, cultural factors in development, physical and mental growth, behavior, growth of meanings, play emotions, character development and personality, learning and the educative process including readings, discussions and special reports.

Ed 454T—Teaching of Reading in the Elementary School—3 cr. (3 and 0)

This course covers how children learn to read; how to determine and appraise readiness to read; how to plan an effective reading program; how to improve instruction; how to evaluate the reading program; and how to use present day audio-visual aids and other materials and apparatus in teaching reading from the first through the sixth grades. (Offered in Summer Session only.)

Ed 458—Health Education—3 cr. (3 and 0)

A study of the information needed for effective cooperation with parents, physicians and public health agencies in the promotion and improvement of community health. Included are problems of personal hygiene, health records, immunization and control of communicable disease.

Ed 460T—Curriculum Development in the Elementary School—3 cr. (3 and 0)

An analysis and evaluation of newer practices in curriculum planning in the elementary school. (Offered in Summer Session only.)

Ed 468T—Introduction to Education of the Exceptional Child—3 cr. (3 and 0)

This course is intended to orient teachers, supervisors and administrators to current practices in the identification, education and rehabilitation of children who are handicapped. Special consideration will be given to curriculum development for children who have crippling conditions or who fall into the category of the educable mentally retarded. (Offered in Summer Session only.)

Ed 469T—The Nature of Mental Retardation—3 cr. (3 and 0)
A study of the educational and psychological research relating to the characteristics and needs of the mentally retarded child. (Offered in Summer Session only.)

Ed 470T—Methods and Materials of Teaching the Mentally Handicapped—3 cr. (3 and 0)
Designed to prepare teachers for planning curricula for the mentally handicapped in light of student needs and in terms of community resources. (Offered in Summer Session only.)

Ed 494T—School and Community Relationships—3 cr. (3 and 0)
Attention is directed to the necessity of community and school people understanding the interdependence of each upon the other. Special attention is directed to the educational implications based on local interrelationships and understandings. (Offered in Summer Session only.)

Ed 497—Audio-Visual Aids in Education—3 cr. (3 and 0)
The purpose of this course is to provide opportunities for study and use of educational films, film strips; photographs, charts, maps and recordings as aids to effective teaching.

Ed 503—Advanced Methods in Teaching—3 cr. (3 and 0)

Ed 505—Occupational Guidance and Placement—3 cr. (3 and 0)

Ed 506—History and Philosophy of Education—3 cr. (3 and 0)

Ed 508—Educational Tests and Measurements—3 cr. (3 and 0)

Ed 509—Analysis of the Individual—3 cr. (3 and 0)

Ed 510—Techniques of Counseling—3 cr. (3 and 0)

Ed 511—Public School Administration (Finance)—3 cr. (3 and 0)

Ed 513—Educational and Occupational Information—3 cr. (3 and 0)

Ed 518—Organization and Administration of Elementary School—3 cr. (3 and 0) (Offered in Summer Session only.)

Ed 530—Techniques of Supervision—The Public Schools—3 cr. (3 and 0) (Offered in Summer Session only.)

Ed 531—Public School Evaluation—3 cr. (3 and 0) (Offered in Summer Session only.)

Ed 553—Adolescent Psychology—3 cr. (3 and 0)

Ed 557—The Teaching of Remedial Reading in the Junior and Senior High School—3 cr. (3 and 0)

ELECTRICAL ENGINEERING

MR. THURSTON

MR. CREAGER, MR. BALL, MR. BROYLES, MR. GOODIN, MR. KERSEY, MR. LONG,* MR. MARTIN, MR. POE, MR. ZINK, MR. BRITTAIN, MR. FITCH, MR. ROCHESTER

EE 214—ELECTRIC CIRCUITS AND FIELDS—3 cr. (3 and 0)
The fundamental theory of electric and magnetic circuits and fields. *Prerequisite:* Math 206, Phys 212 and 214 or enrollment in Math 206, Phys 212, 214; Sophomore standing.

EE 301—ELECTRONICS IN ENGINEERING—3 cr. (3 and 0)
An introduction to the subject of electronics for students not majoring in engineering or physics. Vacuum and gas-filled tubes, transistors, rectification, amplification, feedback, the cathode-ray oscilloscope, and simple instrumentation techniques. *Prerequisite:* Two semesters of physics.

EE 303—INTRODUCTION TO ELECTRICAL ENGINEERING—4 cr. (3 and 3)
Electric and magnetic circuits, machinery, vector algebra as applied to alternating current circuits, electronics; for students in Industrial Education and Industrial Management. *Prerequisite:* Math 106, Phys 202 and 204.

EE 306—ELECTRICAL ENGINEERING LABORATORY—1 cr. (0 and 3)
Experiments on circuits, instrumentation, and electronics for Ceramic Engineers who have not had EE 309. *Prerequisite:* Enrollment in EE 308.

EE 307—BASIC ELECTRICAL ENGINEERING—3 cr. (3 and 0)
Electrical engineering for students who need a sound background in the subject, but who are not planning to specialize in this field. The first term includes a study of D.C. and A.C. circuits, magnetic phenomena, and principles of electrical machinery. *Prerequisite:* Math 206, Phys 212 and 214.

EE 308—BASIC ELECTRICAL ENGINEERING—3 cr. (3 and 0)
A continuation of EE 307. Topics include a more complete study of rotating machinery, basic electromechanical control systems, instrumentation, and fundamentals of electronics. *Prerequisite:* EE 307.

EE 309—ELECTRICAL ENGINEERING LABORATORY—1 cr. (0 and 3)
A laboratory course designed to accompany EE 307. *Prerequisite:* EE 307 or enrollment in EE 307.

EE 310—ELECTRICAL ENGINEERING LABORATORY—1 cr. (0 and 3)
A laboratory course designed to accompany EE 308. *Prerequisite:* EE 308 or enrollment in EE 308.

EE 312—ELECTRICAL MACHINERY I—3 cr. (3 and 0)
A comprehensive study of the theory, construction, and operating characteristics of rotating machines and transformers. *Prerequisite:* EE 315 and enrollment in EE 316.

EE 313—ELECTRIC AND MAGNETIC FIELDS—2 cr. (2 and 0)
A continuation of EE 214, with emphasis on ferromagnetic systems such as are encountered in energy conversion devices. Electrostatic fields are also considered. *Prerequisite:* EE 214.

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* On leave.

EE 314—Electrical Machinery I Laboratory—1 cr. (0 and 3)
A laboratory course designed to accompany EE 312. *Prerequisite:* Enrollment in EE 312.

EE 315—Alternating-Current Circuits—4 cr. (3 and 3)
A comprehensive study of alternating-current fundamentals. The circuits are analyzed by use of complex algebra, and matrices are introduced for multi-loop and multi-node networks. One three-hour calculation period each week. *Prerequisite:* EE 214.

EE 316—Alternating-Current Circuits—3 cr. (3 and 0)
A continuation of EE 315. Polyphase circuits are covered, both balanced and unbalanced. The Fourier analysis is presented, followed by introduction of the Laplace transformation for responses to transient inputs. A study of elementary synthesis includes the canonical forms of Foster and Cauer. *Prerequisite:* EE 316 and EE 317.

EE 317—Measurements Laboratory—1 cr. (0 and 3)
A first laboratory course in electrical engineering. Basic measuring instruments are used on A.C., D.C.; and magnetic circuits, and practice is obtained in securing data and in preparing reports. *Prerequisite:* Enrollment in EE 313 and EE 315.

EE 320—Electronics I—3 cr. (3 and 0)
Basic electronics. Includes principles of solid state and high-vacuum electronic devices, with some discussion of the physics involved as well as the circuitry. *Prerequisite:* EE 308, EE 310, or enrollment in EE 316 and EE 322.

EE 321—Principles of Illumination—3 cr. (3 and 0)
An elective course planned to acquaint engineering and architecture students with the basic principles of illumination, and to give them some experience in the design and layout of lighting installations. *Prerequisite:* Phys 202 and Phys 204, or equivalent.

EE 322—Electronics I Laboratory—1 cr. (0 and 3)
A laboratory course designed to accompany EE 320. *Prerequisite:* Enrollment in EE 320.

EE 401—Seminar—1 cr. (1 and 0)
Discussions on topics from current scientific periodicals and on research and developments in industry. A library research paper is prepared as part of the course work. *Prerequisite:* Senior standing.

EE 402—Engineering Analysis—1 cr. (0 and 3)
The application of engineering principles and methods to the study of typical problems that arise in the various fields of electrical engineering. *Prerequisite:* EE 401 and Senior standing.

EE 407—Electronics II—3 cr. (3 and 0)
A continuation of EE 320, including application to industrial electronics and communications. *Prerequisite:* EE 320, EE 322, enrollment in EE 409, and Senior standing.

EE 409—Electronics II Laboratory—1 cr. (0 and 3)
A laboratory course designed to accompany EE 407. *Prerequisite:* Enrollment in EE 407 and Senior standing.

EE 410—Feedback Control Systems—3 cr. (3 and 0)
Study of closed-loop control systems by use of the Laplace transform and transfer function methods. Root-locus, Nyquist, Bode, and Nichols diagrams are used. *Prerequisite:* EE 316 and Senior standing.

EE 415—Advanced Circuits—3 cr. (3 and 0)
Filter theory, transmission-line theory, vector analysis, and introduction to time-variant fields. *Prerequisite:* EE 316 and Senior standing.

EE 417—Electrical Machinery II—3 cr. (3 and 0)
A continuation of EE 312. *Prerequisite:* EE 312, enrollment in EE 419, and Senior standing.

EE 419—Electrical Machinery II Laboratory—1 cr. (0 and 3)
A laboratory course designed to accompany EE 417. *Prerequisite:* Enrollment in EE 417 and Senior standing.

EE 420—Power System Analysis—3 cr. (3 and 0)
Studies of transmission lines using lumped and distributed constants. Symmetrical components and their use in system fault calculations. Introductory theory of power system stability. *Prerequisite:* Enrollment in or credit for EE 417 and Senior standing.

EE 427—Advanced A-C Machinery—3 cr. (3 and 0)
Supplementary to EE 312 and EE 417 and covering special and more complex features of rotating machinery and control drive systems. *Prerequisite:* EE 312, EE 417, and Senior standing.

EE 431—Electronics III—3 cr. (3 and 0)
Wave-shaping, pulse techniques, microwave techniques, antennas, and communication systems. *Prerequisite:* EE 407, concurrent registration in EE 433, and Senior standing.

EE 433—Electronics III Laboratory—1 cr. (0 and 3)
A laboratory course designed to accompany EE 431. *Prerequisite:* Concurrent registration in EE 431 and Senior standing.

EE 434—Industrial Electronics—2 cr. (2 and 0)
The theory and application of electronics to industrial control equipment. Includes fundamentals of servomechanisms, speed and voltage regulators, power rectifiers, etc. Planned for students not majoring in electrical engineering. *Prerequisite:* EE 308 and EE 310, or EE 320 and EE 322; enrollment in EE 438.

EE 436—Radiation and Wave Propagation—3 cr. (3 and 0)
Electromagnetic fields, boundary-value problems, Maxwell's equations, guided waves, and radiation. *Prerequisite:* EE 415 and Senior standing.

EE 438—Industrial Electronics Laboratory—1 cr. (0 and 3)
A laboratory course designed to accompany EE 434. *Prerequisite:* Enrollment in EE 434.

EE 501—Transients in Linear Systems—3 cr. (3 and 0)

EE 510—Closed-Loop Control Systems—3 cr. (3 and 0)

EE 511—Electric Power Stations—3 cr. (3 and 0)

EE 513—Power System Stability—3 cr. (3 and 0)

EE 520—Advanced Electronic Circuits—4 cr. (3 and 3)

EE 521—Radiation and Wave Propagation—3 cr. (3 and 0)

EE 525—Transistor Theory and Applications—3 cr. (3 and 0)

EE 530—Pulse Techniques—4 cr. (3 and 3)

EE 591—Research—3 cr.

EE 592—Research—3 cr.

ENGINEERING GRAPHICS

Mr. Bradbury

Mr. Banister, Mr. Hammond, Mr. Jameson, Mr. McHugh, Mr. Carter, Mr. Blakeney, Mr. Clement

EG 101—Freehand Sketching—1 cr. (0 and 3)
Principles of technical sketching, including the development of skills in technical lettering and freehand orthographic and pictorial drawing.

EG 105—Engineering Graphics—2 cr. (0 and 6)
This course is to acquaint students of management with the engineering language in order to make more understandable the necessary communication which must occur between management and the engineering profession.

EG 106—Engineering Graphics—2 cr. (0 and 6)
A continuation of EG 105 with the last portion of the course devoted to the use of graphics by management for the analysis and presentation of data. *Prerequisite:* EG 105.

EG 107—Engineering Graphics—2 cr. (0 and 6)
A study of the graphical language with emphasis on drawing as a means of engineering communication and as preparation for engineering design. Technical sketching and mechanical drawing are used to develop a basic means for the graphical communication of ideas.

EG 108—Engineering Graphics—2 cr. (0 and 6)
Descriptive geometry, vector geometry, graphical solutions, with problems selected to develop engineering graphics as a basic tool for the solution of engineering problems. *Prerequisite:* EG 107.

EG 202—Advanced Graphics for Engineers—2 cr. (1 and 3)
The application of rational and empirical equations, functional scales, nomography, and graphical calculus to the solution of mathematical problems from the several fields of engineering. *Prerequisite:* Sophomore standing.

ENGINEERING MECHANICS

Mr. Moorman

Mr. Nowack, Mr. Castro, Mr. Dirksen, Mr. Gambrell, Mr. Mitchell, Mr. Uldrick,* Mr. Wood

EM 302—Engineering Mechanics (Statics)—3 cr. (3 and 0)
Forces and force systems and their external effects on bodies; principally the condition of equilibrium. The concept of free body analysis as an analytical

* On leave.

tool is emphasized. Special topics include centroids and moments of inertia. *Prerequisite:* Phys 211, concurrent registration in Math 206.

EM 303—Engineering Mechanics (Dynamics)—3 cr. (3 and 0)
A continuation of EM 302. The two principal topics are kinematics and the effects of force systems in producing accelerated motion of particles and bodies of finite size. Emphasis is placed on the fundamental laws of motion and analytical techniques in their application to engineering problems. *Prerequisite:* EM 302 and Math 206.

EM 304—Mechanics of Materials—3 cr. (3 and 0)
The relationships between external loads on solid bodies or members and the resulting internal effects and dimension changes, including the derivation of rational formulas for stresses and deformations and the identification and use of important physical properties of engineering materials. *Prerequisite:* EM 302 and Math 206.

EM 305—Mechanics of Materials Laboratory—1 cr. (0 and 3)
Theoretical relationships considered in EM 304 are verified. Students observe the behavior under load and the failure of engineering materials; identify and evaluate physical properties of materials important to design and manufacturing processes; and are acquainted with various testing methods, testing machines, and instruments. *Prerequisite:* Must be accompanied or preceded by EM 304.

EM 401—Fluid Mechanics—3 cr. (3 and 0)
A fundamental study of the behavior of fluids at rest or in motion. Emphasis is placed upon a rational, analytical approach from which are developed basic principles of broad applicability to all fields of engineering. *Prerequisite:* EM 303.

EM 403—Fluid Mechanics Laboratory—1 cr. (0 and 3)
The principles developed in EM 401 are verified and demonstrated. Familiarization with orderly techniques in organizing and reporting results of experimental investigations and with the use of instruments and equipment is afforded. *Prerequisite:* Must be accompanied or preceded by EM 401.

EM 450—Mechanical Vibrations—3 cr. (3 and 0)
Basic theory of mechanical vibrations with applications to problems including those of free vibrations with and without damping; forced vibrations, systems of one, two, and many degrees of freedom. *Prerequisite:* EM 303, 304 and Math 306.

EM 460—Hydrology—2 or 3 cr. (2 or 3 and 0)
The principles concerning the occurrence of natural water and engineering practices in dealing with it in the design of facilities for water supply, flood control, power development, and other purposes. *Prerequisite:* EM 401 and approval of instructor.

EM 462—Water Power Engineering—2 or 3 cr. (2 or 3 and 0)
Principles and practices involved in the investigating and planning of hydraulic power developments and the selection of hydraulic machinery. *Prerequisite:* EM 460 or special approval of instructor.

EM 464—Flow in Open Channels—2 or 3 cr. (2 or 3 and 0)
Consideration of open channel flow problems, including: the hydraulic jump, backwater curves, bends, transitions and obstructions, and special methods of flood routing. *Prerequisite:* EM 401 and approval of instructor.

EM 470—Experimental Stress Analysis—3 cr. (2 and 3)
Experimental analysis of stress fields and determination of maximum principal stresses in deformable bodies. Emphasis is on the theoretical consideration in the reduction of data as well as the obtaining of data. Methods studied include photoelasticity, electrical resistance strain gages, brittle lacquer, and birefringent coatings. *Prerequisite:* EM 304 and permission of instructor.

EM 501—Experimental Stress Analysis—Advanced—3 cr. (2 and 3)

EM 502—Advanced Mechanics of Materials—3 cr. (3 and 0)

EM 503—Theory of Elasticity I—3 cr. (3 and 0)

EM 506—Fluid Mechanics II—3 cr. (3 and 0)

EM 508—Flood Control—3 cr. (3 and 0)

EM 509—Hydrology—3 cr. (3 and 0)

EM 510—Advanced Hydrology—2 cr. (2 and 0)

EM 512—Hydraulic Projects—3 cr. (3 and 0)

EM 591—Research—3 cr.

EM 592—Research—3 cr.

ENGLISH

Mr. Cox

Mr. C. B. Green, Mr. J. C. Green, Mr. Owings, Mr. Caskey, Mr. Felder, Mr. Holt, Mr. McGee, Mr. Watson, Mr. Wilson, Mr. Winter, Mr. Calhoun, Mr. Day, Miss Holman, Mr. Longshore, Mr. Steadman, Mr. Bakker, Mr. Dees, Mr. Edwards, Mr. Gasque, Mr. Henry, Mr. Hollahan, Mr. Lacy, Mr. Simms, Mr. Van Hettinga, Mr. Whitman, Mr. Willey, Mr. Witherspoon

Engl 101—English Composition—3 cr. (3 and 0)
Training in correct and effective expression.

Engl 102—English Composition—3 cr. (3 and 0)
Continued emphasis on correct and effective expression; training in the organization and writing of various types of expository and semi-technical papers, including the research report. *Prerequisite:* Engl 101.

Engl 203—A Survey of English Literature—3 cr. (3 and 0)
Chief British authors and works from Beowulf through the Romantic period; continued emphasis on composition. *Prerequisite:* Engl 102.

Engl 204—A Survey of English and American Literature—3 cr. (3 and 0)
Chief British authors and works from the Victorian period to the present time, and selected readings from American literature. Proficiency in composition must be demonstrated. *Prerequisite:* Engl 203.

Engl 300—English at Work—1 cr. (1 and 0)
Responsibilities and duties of students editing uncensored publications; criticism of student publications; visiting speakers; review of English fundamentals. Open to members of publication staffs and to others by permission

of instructor. Fall term only; offered only if requested by twenty students. *Prerequisite:* Engl 102.

Engl 301—Public Speaking—3 cr. (3 and 0)
Practical training in public speaking; attention to diction, voice, and platform presence; an introduction to parliamentary procedure; practice in writing and delivering short speeches. *Prerequisite:* Engl 203 and 204.

Engl 351T—Children's Literature—3 cr. (3 and 0)
Wide reading in prose and verse suitable for children. (Summer Session only.)

Engl 401—Advanced Composition—3 cr. (3 and 0)
Supervised writing for students of advanced standing; a laboratory, following basic types of writing, with each student undertaking projects according to his interest; some attention to reports, business letters, research methods and materials. Weekly papers and some longer exercises. Limited enrollment. *Prerequisite:* Engl 203 and 204.

Engl 405—Shakespeare—3 cr. (3 and 0)
A selective study of Shakespeare's plays with attention to his development as a dramatist. *Prerequisite:* Engl 203 and 204.

Engl 406—Shakespeare—3 cr. (3 and 0)
A continuation of English 405. *Prerequisite:* Engl 203 and 204.

Engl 409—Chaucer—3 cr. (3 and 0)
Chaucer as an artist; the "Prologue" for historical and linguistic orientation; "The Canterbury Tales," "House of Fame," "Parliament of Fowls," and "Troilus and Criseyde" as art forms. *Prerequisite:* Engl 203 and 204.

Engl 415—Introduction to Drama—3 cr. (3 and 0)
Principles and progress of drama from Aeschylus to Ibsen, analysis of representative plays; critical reports; classroom reading of great scenes. *Prerequisite:* Engl 203 and 204.

Engl 416—Introduction to Drama—3 cr. (3 and 0)
Principles and progress of drama from Ibsen to the present; analysis of representative plays; critical reports; classroom reading of great scenes; discussion of important aspects of modern drama. *Prerequisite:* Engl 203 and 204.

Engl 423—A Survey of American Literature—3 cr. (3 and 0)
The colonial period to the Civil War, with emphasis on major authors. *Prerequisite:* Engl 203 and 204.

Engl 424—A Survey of American Literature—3 cr. (3 and 0)
From the Civil War to the present, with emphasis upon major authors. *Prerequisite:* Engl 203 and 204.

Engl 425—The Romantics—3 cr. (3 and 0)
The eighteenth-century forerunners of Romanticism; Wordsworth, Coleridge, Byron, Shelley, Keats; the essayists. *Prerequisite:* Engl 203 and 204.

Engl 427—Victorian Literature—3 cr. (3 and 0)
Representative works from the prose and poetry of Victorian writers; consideration of English intellectual, social, and political life of the period. *Prerequisite:* Engl 203 and 204.

Engl 429—The English Novel—3 cr. (3 and 0)
Major English novelists from Defoe to Scott. *Prerequisite:* Engl 203 and 204.

ENGL 430—THE ENGLISH NOVEL—3 cr. (3 and 0)
A continuation of English 429, with emphasis upon English Victorian novelists. *Prerequisite:* Engl 203 and 204.

ENGL 431—THE RESTORATION AND EIGHTEENTH CENTURY—3 cr. (3 and 0)
Readings in Dryden, Swift, Pope, and Dr. Johnson. *Prerequisite:* Engl 203 and 204.

ENGL 433—CONTEMPORARY BRITISH LITERATURE—3 cr. (3 and 0)
British novelists, poets, and essayists of the twentieth century. *Prerequisite:* Engl 203 and 204.

ENGL 434—CONTEMPORARY AMERICAN LITERATURE—3 cr. (3 and 0)
American writers from Mark Twain to Faulkner and Hemingway. *Prerequisite:* Engl 203 and 204.

ENGL 435—SOUTHERN LITERATURE—3 cr. (3 and 0)
The intellectual and literary achievement of the South from 1607 to the present, with emphasis upon the writers of the nineteenth century. *Prerequisite:* Engl 203 and 204.

ENGL 503—SEMINAR IN AMERICAN LITERATURE—3 cr. (3 and 0)

ENGL 504—SEMINAR IN AMERICAN LITERATURE—3 cr. (3 and 0)

ENGL 505—SEMINAR IN ENGLISH LITERATURE—3 cr. (3 and 0)

ENGL 506—SEMINAR IN ENGLISH LITERATURE—3 cr. (3 and 0)

ENTOMOLOGY

MR. COCHRAN

MR. REED, MR. KING, MR. ADKINS, MR. BUXTON, MR. FOX,
MR. TOMBES, MR. PURSER

ENT 301—ELEMENTARY AND ECONOMIC ENTOMOLOGY—3 cr. (2 and 3)
A general introduction to Entomology with emphasis on anatomy, metamorphosis, life-histories of our most important species and methods of control. *Prerequisite:* Zool 101 and 103.

ENT 305—ECONOMIC ENTOMOLOGY—3 cr. (2 and 3)
Identification and life-histories of injurious insects, their damage, and control measures. Common pests of the following are studied: cotton, corn, small grains, legume field crops, tobacco, sugar cane, stored grain and seed, livestock and man. *Prerequisite:* Zool 101, 103 and Ent 301.

ENT 306—ECONOMIC ENTOMOLOGY—3 cr. (2 and 3)
Insecticide and other control measures for insects. This is followed by detailed study of habits, life-histories and approved control measures for insect pests of all fruit and vegetable crops. *Prerequisite:* Zool 101, 103 and Ent 301.

ENT 307—FOREST ENTOMOLOGY—3 cr. (2 and 3)
Insects of economic importance to forests, forest products and shade trees, and their role in the practice of good forest management as well as their significance in the natural environment.

ENT 308—APICULTURE—3 cr. (2 and 3)
A detailed study of the honey bee and its economic importance in pollination and honey production. Attention will be given to bee behavior, colony

management, equipment, honey plant identification, and honey production and processing. *Prerequisite:* Ent 301 and permission of the instructor.

Ent 405—Insect Morphology—4 cr. (3 and 3)
A study of insect structure in relation to function and of the variation of form in insects. *Prerequisite:* Ent 301.

Ent 408—General and Taxonomic Entomology—5 cr. (3 and 6)
Lecture material includes a review of the bionomics of the principal families of insects. Laboratory work consists of practice in the identification of adults of the principal families in the major orders. *Prerequisite:* Zool 101, 103, Ent 301; Ent 405 desirable.

Ent 455—Medical and Veterinary Entomology—3 cr. (2 and 3)
Insects and their arthropod relatives which are of considerable economic importance in their effect on man and animals.

Ent 461—Seminar—1 cr. (1 and 0)
Students review the principal journals pertaining to insects and related animals; also review the lives and activities of prominent pioneer entomologists. *Prerequisite:* Zool 101, 103 and 301; Ent 301 and 408.

Ent 462—Seminar—1 cr. (1 and 0)
Students review the principal journals pertaining to insects and related animals; also review the lives and activities of prominent pioneer entomologists. *Prerequisite:* Zool 101, 103 and 301; Ent 301 and 408.

Ent 468—Introduction to Research—2 cr. (1 and 3)
Principles, developments and changes in research methods related to certain fields of agricultural research. The students obtain practice in experimental techniques, scientific writing and the use and maintenance of various research instruments and equipment.

Ent 508—Taxonomy of Immature Insects—3 cr. (1 and 6)

Ent 552—Advanced Systematic Entomology—2 cr. (0 and 6)

Ent 556—Medical Entomology—3 cr. (2 and 3)

Ent 560—Principles of Insect Control—3 cr. (3 and 0)

Ent 561—Insect Toxicology—3 cr. (2 and 3)

Ent 562—Insect Physiology—3 cr. (2 and 3)

Ent 563—Special Problems in Entomology—3 to 6 cr.

Ent 590—Research Techniques in Agriculture—3 cr. (2 and 3)

Ent 591—Research—3 cr.

Ent 592—Research—3 cr.

FOOD TECHNOLOGY

Mr. Mitchell

Mr. Shewfelt, Mr. Borgman, Mr. Wheeler

FdT 301—Raw Food Materials for Processing—4 cr. (3 and 3)
This course includes lectures, reference reading, and laboratory work on the fruits, vegetables, cereal grains, oil seeds, and sugar crops important to the food processing industry. Commercial growing areas, maturity characteristics,

effects of harvesting and handling on quality, storage of raw materials, quality grading, and government standards are covered. *Prerequisite:* Bot 101.

FdT 302—Elements of Food Technology—3 cr. (3 and 0)

Lectures and reference reading cover the principles of food preservation by freezing, dehydration, canning, concentration, brining, smoking, sugar and chemical additives. *Prerequisite:* Chem 220 or 321 and Phys 202 and 204 or 212 and 214.

FdT 401—Elements of Food Technology—3 cr. (3 and 0)

Lectures and reference reading cover the principles of processing cereal grain products, sugars, syrups, vegetable oils, dairy products, meats, fish, confectionary, fruits and vegetable juices, tea, coffee, nuts, spices, and flavors. Principles of packaging are discussed. *Prerequisite:* FdT 302.

FdT 403—Food Processing—3 cr. (1 and 6)

Lectures are concerned with a review of the fundamentals and technology of canning, freezing, dehydration, and types of pack. The essentials of factory quality control are discussed. Laboratory work introduces the student to processing equipment. Canning, freezing, dehydration, and fermentation operations relating to fruits and vegetables are conducted. Subjective and objective quality tests are made, and quality grading is conducted by government standards. *Prerequisite:* FdT 301 and 302, Bact 301, and Chem 216.

FdT 404—Food Processing—3 cr. (1 and 6)

Lectures are concerned with the fundamentals and technology of canning and freezing of formulated products, meats, and poultry, the processing of eggs, vegetable oils, and cereal grains, and the manufacture of mayonnaise and salad dressings. Laboratory work is concerned with processing of meat, poultry, vegetable oils, and formulated products (baking mixes, pie mixes, and others), and manufacture of mayonnaise and salad dressings. *Prerequisite:* FdT 401 and 403.

FdT 406—Biochemistry of Food and Nutrition—3 cr. (2 and 3)

The needs of man for calories, carbohydrates, fats, proteins, minerals, and vitamins are discussed. The laboratory work covers methods of analysis for constituents of representative foods by chemical, physical, and microbiological techniques. *Prerequisite:* Chem 216 and Chem 220 or 321.

FdT 408—Principles of Food Sanitation—2 cr. (2 and 0)

The needs for adequate sanitation in food processing industries are discussed. Control of insects, rodents, and microorganisms, food plant sanitation procedures, waste disposal, government food regulations, and disease transmission through foods are covered. *Prerequisite:* Bact 301.

FORESTRY

Mr. Lehotsky

Mr. Bruner, Mr. Cool, Mr. McGregor, Mr. Randel, Mr. Shipman, Mr. Warner, Mr. Lane, Mr. Shain

For 201—Introduction to Forestry—1 cr. (1 and 0)

An informative sketch of forestry, forests, and forestry tasks of the nation; education in career opportunities of foresters. *Prerequisite:* Bot 101.

For 202—Dendrology—4 cr. (3 and 3)
Identification and nomenclature of the principal forest trees of the United States; their geographical distribution and economic importance; identification of many forest shrubs and commonly planted exotics. *Prerequisite:* Bot 101.

For 203—Silvics—2 cr. (2 and 0)
Growth factors influencing the establishment and development of forest trees and stands. *Prerequisite:* Bot 101, Chem 102.

For 251S—Silvics—2 cr. (Summer Camp)
Field studies of growth factors influencing the establishment and development of forest stands. *Prerequisite:* Agron 202, Bot 356, CE 200, For 202, For 203.

For 252S—Forest Engineering—2 cr. (Summer Camp)
Field surveying, establishment of boundary lines, planning and construction of forest trails and roads. *Prerequisite:* CE 200, EG 105.

For 253S—Dendrometry—4 cr. (Summer Camp)
Elements of mensuration dealing with volume determination of standing and harvested trees as well as forest stands. *Prerequisite:* CE 200, EG 105, For 202.

For 254S—Forest Products—1 cr. (Summer Camp)
Field studies of logging methods and equipment; trips to selected wood-using industries. *Prerequisite:* CE 200, For 202.

For 301—Aerial Forest Mapping—3 cr. (2 and 3)
Use of aerial photographs in forestry; elementary photographic measurements; aerial photo interpretation; mapping and timber estimating procedures. *Prerequisite:* CE 203 and Forestry Summer Camp.

For 302—Dendrometry—3 cr. (2 and 3)
Volume determination of trees, logs, and stands; statistical procedures applied to forest measurements. *Prerequisite:* Ag Ec 401 and Forestry Summer Camp.

For 303—Silviculture—4 cr. (3 and 3)
Maintenance, harvesting, natural and artificial regeneration of forest stands based on the interrelation of biotic characteristics of stands and their environment. *Prerequisite:* For 203 and Forestry Summer Camp.

For 304—Forest Economics—3 cr. (3 and 0)
Economic problems and principles involved in the utilization of forest land and timber and in the distribution of forest products; cost analysis of integrated forest operations. *Prerequisite:* Econ 201.

For 306—Wood Technology—1 cr. (0 and 3)
Macroscopic and microscopic identification, properties, and uses of selected economically significant timbers. *Prerequisite:* Bot 101, Chem 102.

For 307—Farm Forestry—3 cr. (2 and 3)
A compendium of forestry subjects forming a foundation for the management and utilization of farm forests and especially those of South Carolina. *Prerequisite:* Bot 101.

For 402—Logging and Milling—4 cr. (2 and 6)
Logging and milling methods and costs, their administration; analysis of logging and milling operations; seasoning, grading, and marketing of lumber. *Prerequisite:* Senior standing.

For 403—Forest Products—3 cr. (2 and 3)
Primary forest products other than sawlogs, e.g., poles, pulpwood, veneer stock, excelsior; secondary forest products, e.g., naval stores, maple syrup, Christmas trees; utilization and marketing of forest products *Prerequisite:* Phys 202 and Senior standing.

For 404—Management Plans—1 cr. (0 and 3)
Analysis and assembling of factors entering into a forest working plan; drawing of maps corollary to forest regulation; preparation of management plans. *Prerequisite:* For 407.

For 405—Forest Protection—2 cr. (2 and 0)
Causative and control factors of forest fires; fire prevention and suppression. Protection of forest resources against damages caused by man and animals. *Prerequisite:* Senior standing.

For 406—Forest Policy and Administration—2 cr. (2 and 0)
Development of public and private forest policy in the United States; administrative and executive tasks in forestry; principles of organization, personnel management, and budget. *Prerequisite:* Senior standing.

For 407—Forest Regulation—4 cr. (3 and 3)
Correlation of production factors and yields of forests; normal and empirical forests; rotations and cutting cycles; regulation of cuts and growing stock in sustained yield management. *Prerequisite:* For 302, 303.

For 408—Forest Valuation—3 cr. (3 and 0)
Capital investments in forestry and the returns derivable from them; valuation of land, timber, and other resources associated with forestry; appraisal of damage and stumpage values. *Prerequisite:* For 304, 407.

FRENCH

Mr. Dean, Mr. Stern, Mr. Kindermann, Mr. Mixon

Fr 101—Elementary French—3 cr. (3 and 0)
A course for beginners in which, through conversation, composition and dictation, the fundamentals of the language are taught and a foundation is provided for further study and the eventual ability to read and speak the language.

Fr 102—Elementary French—3 cr. (3 and 0)
A continuation of Fr 101, in which a reader is also used.

Fr 201—Intermediate French—3 cr. (3 and 0)
A short review of grammar, with conversation, composition and dictation continued from Fr 102, and the beginning of more serious reading of French prose in short stories or novels.

Fr 202—Intermediate French—3 cr. (3 and 0)
While attention is paid to writing and speaking French, more stress is laid on the rapid reading of more difficult French prose than in the earlier courses.

Fr 301—Twentieth Century French Prose—3 cr. (3 and 0)
Study of works selected from those by Collette, Duchamel, Gide, Mauriac, Proust, Sainte-Exupery, and others. (Offered every other year, alternating with Fr 401.) *Prerequisite:* Fr 201 and 202.

Fr 302—Nineteenth Century French Prose-Romanticism—3 cr. (3 and 0)
Study of works selected from those by Chateaubriand, deVigny, Hugo, Merimee, Sand, Stendhal, and others. (Offered every other year, alternating with Fr 402.) *Prerequisite:* Fr 201 and 202.

Fr 401—Nineteenth Century French Prose Realism—3 cr. (3 and 0)
Study of works selected from those by Balzac, Daudet, Flaubert, Anatole France, Zola, and others. (Offered every other year, alternating with Fr 301.) *Prerequisite:* Fr 201 and 202.

Fr 402—Seventeenth Century French Drama—3 cr. (3 and 0)
Study of representative dramas by Corneille, Moliere, and Racine. (Offered every other year, alternating with Fr 302.) *Prerequisite:* Fr 201 and 202.

GEOGRAPHY

Mr. Carpenter, Mrs. Bardsley

Geog 301—Economic Geography—3 cr. (3 and 0)
The geographic conditions fundamental to the world's resources—agricultural, mineral, commercial and industrial, and the conditions which affect their production, exchange, consumption and strategic significance. *Prerequisite:* Junior standing.

Geog 302—Political Geography—3 cr. (3 and 0)
The geographical pattern of the major nations, empires, dominions, commonwealths and other dependencies, their boundaries, resources and strategic connections. The current principles of geopolitics, with their application to the United States, Europe and Asia will be examined. *Prerequisite:* Junior standing.

GEOLOGY AND MINERALOGY

Mr. Brown, Mr. Tingle, Mr. Cazeau

Geol 201—Physical Geology—2 cr. (2 and 0)
An introduction to physical geology with emphasis on the application of geology to problems in agriculture.

Geol 203—Physical Geology Laboratory—1 cr. (0 and 3)
Common minerals and rocks are studied. Instruction is also provided in the interpretation of geologic processes through study of topographic maps. Field trips provide direct observation of processes and results. *Prerequisite:* Geol 201 or registration in Geol 201.

Geol 304—Historical Geology—3 cr. (3 and 0)
Evolution, both organic and inorganic, is traced from the beginning of the record up through the ages to the present.

Geol 305—Historical Geology Laboratory—1 cr. (0 and 3)
The student learns to recognize plants and animals which have left their record as fossils in the rocks of the earth's crust. Emphasis is placed upon

geologic structures and the interpretation of geologic maps. Field trips are planned to demonstrate classroom concepts. *Prerequisite:* Credit in Geol 304 or simultaneous registration in Geol 304.

GEOL 306—MINERALOGY—3 cr. (2 and 3)

In this course the student gains a working knowledge of crystallography and a comprehensive knowledge of determinative mineralogy. Identification of the minerals is based on their physical and chemical properties. *Prerequisite:* Geol 201 or 406.

GEOL 307—OPTICAL MINERALOGY—3 cr. (2 and 3)

The purpose of this course is to enable the student to identify minerals under the microscope on the basis of their optical properties. *Prerequisite:* Geol 306.

GEOL 309—PETROLOGY—3 cr. (2 and 3)

A study of the genesis, evolution, and classification of rocks through lectures, laboratory exercises, and field trips. The occurrences, chemical relationships, and distribution of rock types are emphasized. *Prerequisite:* Geol 306.

GEOL 311—STRATIGRAPHY AND SEDIMENTATION—3 cr. (3 and 0)

A study of the processes by which sediments are eroded, transported, and deposited (sedimentation), with major emphasis on relationships of the areal and time distribution of stratified rocks and their historical significances (stratigraphy). *Prerequisite:* Geol 201 and 304 or 406.

GEOL 402—STRUCTURAL GEOLOGY—3 cr. (3 and 0)

A study of the diverse geological structures of the earth, their description, origin, and field recognition. Practical problems in interpreting geologic structures are utilized, in addition to theoretical considerations of the mechanics and causes of tectonism. *Prerequisite:* Geol 201 and 304 or 406.

GEOL 404—ECONOMIC GEOLOGY—2 cr. (2 and 0)

This course concerns the description and classification of ore deposits and commercial non-metallic mineral deposits. The origin of mineral deposits and their occurrence is emphasized. Problem studies and field trips to nearby mines and quarries. *Prerequisite:* Geol 306.

GEOL 406—ENGINEERING GEOLOGY—3 cr. (2 and 3)

This course is similar to Geol 201 except that progress is faster and emphasis is on the relationship of geology to engineering rather than to agriculture.

GEOL 411—RESEARCH PROBLEMS—3 cr. (0 and 9)

A field, laboratory, or library study of an approved topic in geology. The topic would be one not normally covered in formal course offering, but may be an extension of a course. *Prerequisite:* Senior standing in geology or approval of the Department Head.

GEOL 412—RESEARCH PROBLEMS—3 cr. (0 and 9)

A continuation of Geol 411.

GEOL 500T—EARTH SCIENCE I—3 cr. (2 and 3)

GEOL 550T—EARTH SCIENCE II—3 cr. (2 and 3)

GERMAN

Mr. Maierhofer, Mr. Howard, Mr. Van Hettinga

Ger 101—Elementary German—3 cr. (3 and 0)

A course for beginners in which, through conversation, composition and dictation, the fundamentals of the language are taught and a foundation is provided for further study and the eventual ability to read and speak the language.

Ger 102—Elementary German—3 cr. (3 and 0)

A continuation of Ger 101, in which a reader is also used.

Ger 201—Intermediate German—3 cr. (3 and 0)

A short review of grammar, with conversation, composition and dictation continued from Ger 102, and the beginning of more serious reading of German prose in short stories or novels.

Ger 202—Intermediate German—3 cr. (3 and 0)

While attention is paid to writing and speaking German, more stress is laid on the rapid reading of more difficult German prose than in the earlier courses.

Ger 251—Scientific German—3 cr. (3 and 0)

An alternate course to Ger 201, designed primarily to prepare graduate students for readings in general science with a thorough review of grammar and syntax. *Prerequisite:* Ger 101 and 102 and permission of the instructor.

Ger 301—Advanced German—3 cr. (3 and 0)

Rapid reading of difficult literary or scientific German prose.

Ger 302—Advanced German—3 cr. (3 and 0)

A continuation of Ger 301, with selections being made to suit the needs of the students.

Ger 401—Survey of German Literature—3 cr. (3 and 0)

Readings in German masterpieces of literature, with special emphasis on Lessing, Schiller, and Goethe. *Prerequisite:* Ger 201 and 202.

Ger 402—Survey of German Literature—3 cr. (3 and 0)

A continuation of Ger 401. Ger 401 and 402 will be offered every other year, alternating with Ger 301 and 302. *Prerequisite:* Ger 201 and 202.

GOVERNMENT

Mr. Lambert, Mr. Tuttle, Mr. Owens

Gov 101—American National Government—3 cr. (3 and 0)

The principles, structure and functions of the national government of the United States. Not open to juniors and seniors.

Gov 301—American Government and Political Parties—3 cr. (3 and 0)

The constitution: powers and functions of executive, legislative and judicial branches; citizenship; expansion of governmental activities. A study of the nature, development, organization and methods of political parties, and the conduct of elections. Not open to those who have completed Gov 101.

Gov 302—State and Local Government—3 cr. (3 and 0)

The American state and local government structural features and functions, and their legislative, administrative and judicial processes.

Gov 303—Constitutional Development in the United States—3 cr. (3 and 0)
The origin and growth of the Constitution of the United States.

Gov 401—Comparative Government—3 cr. (3 and 0)
Political institutions of Great Britain, Russia, France, Italy, Germany, Canada and Argentina. *Prerequisite:* Junior standing.

Gov 403—International Relations—3 cr. (3 and 0)
To acquaint the student with current world movements and conditions, so that he may be able to think intelligently on the problems confronting our nation. *Prerequisite:* Senior standing.

HISTORY

Mr. Epting

Mr. Bolen, Mr. Lambert, Mr. Lander, Mr. Landrith, Mrs. Ringold, Mr. Tuttle, Mrs. Bardsley, Mr. Carpenter, Mrs. Hill, Mrs. Davis, Mrs. Owens

Hist 101—American History—3 cr. (3 and 0)
The political, economic and social development of the American people from the period of discovery to the end of the Civil War.

Hist 102—American History—3 cr. (3 and 0)
The political, economic and social development of the American people from the end of the Civil War to the present.

Hist 104—Western Civilization—3 cr. (3 and 0)
A survey of the history of the modern world and the forces which have shaped its political, economic, and social institutions.

Hist 301—History of the United States Since 1865—3 cr. (3 and 0)
An advanced study of the political, social, and economic development of the United States since the end of the Civil War. *Prerequisite:* Junior standing. Not open to students who have completed Hist 102.

Hist 303—History of Civilization—3 cr. (3 and 0)
The political, economic and social movements of Western Civilization from ancient times to 1660. *Prerequisite:* Junior standing or permission of instructor.

Hist 304—History of Civilization—3 cr. (3 and 0)
The political, economic and social movements of Western Civilization from 1660 to the present. *Prerequisite:* Junior standing or permission of instructor.

Hist 309—History of England—3 cr. (3 and 0)
England and her people. *Prerequisite:* Junior standing.

Hist 312—History of Russia—3 cr. (3 and 0)
A survey of the history of Russia from the earliest times to the present.

Hist 401—History of South Carolina—3 cr. (3 and 0)
The political, economic and social development of South Carolina from 1670 up to the present. *Prerequisite:* Junior standing.

Hist 403—History of the South—3 cr. (3 and 0)
Origins and development of political, economic, and cultural institutions of the South from the Colonial period to the present; and the role of the South in the nation's development.

HIST 406—AMERICAN ECONOMIC DEVELOPMENT—3 cr. (3 and 0)
The history of the economic development of the United States from 1492 to the present with emphasis on agriculture, transportation, banking, commerce, economic policies of the national government, and particularly the industrial revolution.

HIST 408—INTERNATIONAL RELATIONS SINCE 1914—3 cr. (3 and 0)
The great powers and world politics since 1914.

HIST 410—HISTORY OF COLONIAL AMERICA—3 cr. (3 and 0)
The development of American institutions and customs in the period before 1776. Considerable emphasis is placed on the imperial relations between Great Britain and her colonies and upon the movement towards, and the philosophy of, the American revolution.

HIST 411—UNITED STATES, 1783-1850—3 cr. (3 and 0)
The formation and growing pains of the new nation through the Federal and Middle periods of its history, with emphasis on economic and political development, the westward movement, and the conflicting forces of nationalism and sectionalism.

HIST 412—UNITED STATES, 1850-1900—3 cr. (3 and 0)
A course dealing with the background causes of, developments during, and broad problems after, the Civil War in American history.

HIST 413—UNITED STATES HISTORY SINCE 1900—3 cr. (3 and 0)
The history of the United States from 1900 to the present.

HIST 501—SEMINAR IN SOUTH CAROLINA HISTORY—3 cr. (3 and 0)

HIST 502—SEMINAR IN UNITED STATES ECONOMIC HISTORY—3 cr. (3 and 0)

HORTICULTURE

MR. SENN

MR. VAN BLARICOM, MR. OGLE, MR. SEFICK, MR. STEMBRIDGE, MR. THODE, MR. FULMER

HORT 201—GENERAL HORTICULTURE—3 cr. (2 and 3)
A working knowledge of the fundamental plant processes is developed, showing the influence of light, temperature, water and nutrients upon vegetative growth and reproduction of horticultural plants. Production practices, harvesting, storage and marketing of the principal fruit, vegetable and ornamental crops are discussed with demonstrations and practice in greenhouse and orchard. *Prerequisite:* Bot 101 and Chem 101.

HORT 302—PRINCIPLES OF VEGETABLE PRODUCTION—3 cr. (2 and 3)
The general principles of vegetable growing and handling. Phases receiving special emphasis are: economic importance, producing areas, management practices, plant forcing, cultural practices, irrigation, quality factors, harvesting, grading, packing, storage, market inspection, transportation, refrigeration, exhibition and seed production. *Prerequisite:* Hort 201.

HORT 303—PLANT MATERIALS I—3 cr. (2 and 3)
A study of woody, ornamental plants and their aesthetic and functional uses in landscape developments. The study covers habit of growth, ultimate size, texture effect, period of bloom, color, and cultural requirements.

Hort 304—Plant Materials II—3 cr. (2 and 3)

A study of herbaceous, ornamental plants which are commonly used as garden flowers. This study covers habit of growth, size, period of bloom, color, and cultural requirements.

Hort 305—Plant Propagation—3 cr. (2 and 3)

Methods of propagation; time, manner and material for making cuttings; temperature and media for rooting cuttings or ornamental trees, shrubs and flowering plants; propagating structures, soils and fertilizers. Practical instruction given in field and greenhouse. *Prerequisite:* Hort 201.

Hort 308—Landscape Design—3 cr. (2 and 3)

Landscape planning of residential and public properties in order to achieve best use and most enjoyment from a given piece of ground. *Prerequisite:* Hort 303.

Hort 310—Floriculture—3 cr. (2 and 3)

Greenhouse production of commercial flower crops; soils; fertilizers; greenhouse diseases and insects; flower crops to be grown on benches and as pot plants: marketing and costs of production. *Prerequisite:* Hort 201.

Hort 352—Commercial Pomology—3 cr. (2 and 3)

Fruit bud formation, rest period and water relations of fruit plants, soils, fruit setting; orchard soil management and responses of various fruits to fertilizers; principles of pruning, effect of climatic differences, freezing of tissues and means of avoiding injury; harvesting, transportation and storage. *Prerequisite:* Hort 201.

Hort 405—Nut Tree Culture—2 cr. (2 and 0)

The production, harvesting and marketing of the principal nut crops with emphasis on the pecan. *Prerequisite:* Hort 201.

Hort 406—Nursery Technology—3 cr. (2 and 3)

Principles and techniques in handling nursery crops. *Prerequisite:* Hort 303 and Hort 305.

Hort 407—Landscape Design—3 cr. (2 and 3)

The first half of this course is a study of trees, shrubs, vines and ground covers used in landscape planting. Attention is given to cultural requirements, growth habits, period of bloom, texture and fall color. The second half of the course is devoted to landscape planning for small residential properties.

Hort 409—Seminar—1 cr. (1 and 0)

Recent research work on various phases of horticulture, methods of conducting investigations, and preparation of report of investigations.

Hort 410—Seminar—1 cr. (1 and 0)

A continuation of Hort 409.

Hort 412—Turf Management—3 cr. (2 and 3)

The identification, use, culture, and maintenance of turf grasses.

Hort 451—Small Fruit Culture—3 cr. (2 and 3)

Varieties, soils, sites, culture, fertilizers, harvesting and preparation for marketing of grapes, strawberries, dewberries, blackberries, raspberries and other small fruits. *Prerequisite:* Hort 201.

Hort 456—Truck Crops—3 cr. (2 and 3)
A detailed study of the principles and practices employed in the commercial growing and marketing of vegetable crops. Emphasis is placed on temperature requirements, plant characteristics, varieties, soils, fertilizers, weed control, harvesting and preparation for market. *Prerequisite:* Hort 201.

Hort 460—Advanced Landscape Design—5 cr. (3 and 6)
Landscape planning for larger residential properties, schools, industrial plants, real estate developments; detailed finished plans, costs; further study of materials used; original problems; field study. *Prerequisite:* Hort 407.

Hort 464—Food Preservation—3 cr. (2 and 3)
Theoretical background and fundamental processes of food preservation. Techniques used for community canning, commercial canning, frozen food preservation, juice manufacturing, jam and jelly making.

Hort 468—Introduction to Research—2 cr. (1 and 3)
Principles, developments and changes in research methods related to certain fields of agricultural research. The students obtain practice in experimental techniques, scientific writing and the use and maintenance of various research instruments and equipment.

Hort 501—Problems in Small Fruit Production—3 cr. (3 and 0)

Hort 502—Advances in Horticulture—3 cr. (2 and 3)

Hort 503—Advanced Vegetable Crops—3 cr. (3 and 0)

Hort 504—Scientific Advances in Ornamental Horticulture—3 cr. (3 and 0)

Hort 505—Quality Control for Horticultural Crops—3 cr. (2 and 3)

Hort 506—Post-Harvest Handling of Horticultural Crops—3 cr. (2 and 3)

Hort 507—Advanced Pomology—3 cr. (3 and 0)

Hort 508—Special Problems in Horticulture—2 cr. (2 and 0)

Hort 509—Seminar—1 cr. (1 and 0)

Hort 510—Seminar—1 cr. (1 and 0)

Hort 591—Research—3 cr.

Hort 592—Research—3 cr.

INDUSTRIAL EDUCATION

Mr. Laitala

Mr. J. L. Brock, Mr. D. C. Brock, Mr. Morgan, Mr. Newton

In Ed 201—Industrial Education Laboratory—2 cr. (1 and 3)
This course is the first of a series designed to provide the student with the opportunity to gain competency needed for the successful teaching of Industrial subjects. Emphasis is on basic understanding of terminology, materials, tools, machines, and processes used in industry. *Prerequisite:* Math 106.

In Ed 202—Industrial Education Laboratory—3 cr. (1 and 6)
A study of the properties of wood and woodworking practices. *Prerequisite:* In Ed 201.

In Ed 301—Industrial Education Laboratory—3 cr. (1 and 6)

A study of metal layout and forming, molding, and casting practices. *Prerequisite:* In Ed 202, EG 106, and Phys 202.

In Ed 302—Dwelling Materials and Construction Methods—2 cr. (1 and 3)

A study of the commonly used building materials and the methods of combining them in present day construction. *Prerequisite:* In Ed 202.

In Ed 303—Industrial Education Laboratory—3 cr. (1 and 6)

A study of material joining—welding, brazing, soldering, adhesives, etc.—and heat treatment practices. *Prerequisite:* In Ed 301.

In Ed 304—Equipment Maintenance—1 cr. (0 and 3)

A course in preventive maintenance and repair of tools, machines, and equipment in the school laboratory. *Prerequisite:* In Ed 301 and EE 303.

In Ed 310T*—Methods of Trade Teaching—3 cr. (3 and 0)

This course is designed to give basic instruction to beginning teachers in trade work. The psychological factors of learning are discussed; individual differences; the different methods of teaching subjects; the special methods used in teaching skills; classroom management and organization; grading of students and keeping of proper records and reports. (Offered in Summer Session only.)

In Ed 312T*—Metal Processes in the General Shop—3 cr. (3 and 0)

Major emphasis is placed on planning and development of projects in wrought iron, sheet metal, art metal, metal spinning, welding, heat treating and other aspects of metal work that fit into a general shop program. The course consists of shop practices as well as theoretical consideration of metal work. (Offered in Summer Session only.)

In Ed 313T*—Ceramics and Allied Processes in the General Shop—3 cr. (3 and 0)

Materials and processes in the ceramic and allied industries are emphasized. A major part of the time is given to planning and development of projects involving extrusion, forming, molding and oven treatment of clays in making brick, tile, stoneware and pottery. Allied materials and processes, such as glass making, blowing, coloring, and leading and molding are given some attention. (Offered in Summer Session only.)

In Ed 314T*—Basic Electricity in the General Shop—3 cr. (3 and 0)

The place of electricity in industry and the home is studied and discussed. Major emphasis is placed on planning and developing projects involving an understanding of electrical principles as applied in electric circuits, electric motors, radio, television, telephony, and automatic controls involving vacuum tubes and other electronic devices and materials. In addition, attention is given to maintenance and servicing of electrical appliances used in the home. (Offered in Summer Session only.)

In Ed 315T*—Construction Practices—3 cr. (3 and 0)

This course covers brick, title, concrete, plastering, and other construction materials and methods. (Offered in Summer Session only.)

* "T" courses for certification and recertification purposes only.

In Ed 316T*—Plastics and Plastic Processes in the General Shop—3 cr. (3 and 0)

The industrial, commercial and personal uses of plastics are discussed and demonstrated. In addition, the kinds of plastics, their properties, and special uses are studied. (Offered in Summer Session only.)

In Ed 317T*—Graphic Art Processes in the General Shop—3 cr. (3 and 0)

The graphic art processes as means of expression and communication are thoroughly studied and discussed. Major emphasis is placed on projects involving composing, proofing, letter press work, bed press work, block printing, silk screen printing, off-set printing and other processes in vogue at the present time. (Offered in Summer Session only.)

In Ed 318T*—Industrial Technology Techniques—3 cr. (3 and 0)

Methods and techniques of modern industrial production processes are investigated and studied. Students are required to set-up jigs and fixtures, develop and carry to completion projects involving production methods in modern industry. Major emphasis is placed on casting, stamping and forming processes, forging and extrusion processes, machining processes, metal spraying or metallurgy, blast cutting, heating and case hardening, assembly processes, bending, finishing processes, inspection gaging. (Offered in Summer Session only.)

In Ed 320—Machine Woodworking—2 cr. (1 and 3)

Study of basic characteristics of woodcutting, shaping, and finishing operations by use of machinery and auxiliary tools. Includes project work. *Prerequisite:* Junior standing. (Not for Industrial Education Students.)

In Ed 401—Industrial Education Laboratory—3 cr. (1 and 6)

A study of machining practices. *Prerequisite:* Math 105 and In Ed 303.

In Ed 402—Directed Teaching—6 cr. (1 and 15)

Supervised observation and teaching in cooperation with selected public schools in which opportunities are provided for securing experience in teaching industrial subjects. *Prerequisite:* In Ed 405, 416, 425, and grade-point ratio of 1.80.

In Ed 405—Tests and Measurements in Industrial Education—3 cr. (3 and 0)

A study of methods used in measuring and evaluating pupil achievement in Industrial Education subjects. Emphasis is on developing tests, project evaluation, standardized testing, and statistical treatment of test scores. *Prerequisites:* Math 303 and In Ed 303.

In Ed 410—Philosophy of Industrial Education—3 cr. (3 and 0)

A study of the concepts underlying the development of Industrial Education with emphasis on current needs. *Prerequisite:* In Ed 303.

In Ed 416—Design and Operation of Industrial Education Laboratories—3 cr. (2 and 3)

A study of laboratory layout, selection and procurement of tools and equipment, budgeting, coordinating multiple activities in the general shop, and organizing course materials. *Prerequisite:* In Ed 303.

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* "T" courses for certification and recertification purposes only.

In Ed 422—Vocational Education Programs—3 cr. (3 and 0)
A comprehensive study of the types of vocational programs, financing, and administration and supervision. *Prerequisite:* In Ed 303.

In Ed 425—Teaching Industrial Subjects—3 cr. (3 and 0)
A study of effective methods and techniques of teaching industrial subjects. Emphasis is given to class organization, preparation of lesson outlines, and audio-visual aids. *Prerequisite:* Ed 335 and In Ed 303.

In Ed 432—Advanced Woodworking—2 cr. (1 and 3)
An advanced consideration of machine methods and developments, materials, quality factors, and evaluation of instructional materials and problems. Inspection trips and reports. *Prerequisite:* In Ed 302.

In Ed 435—Advanced Welding—2 cr. (1 and 3)
An advanced consideration of studies originated in In Ed 303, new developments, and evaluation of instructional materials and problems. Inspection trips and reports. *Prerequisite:* In Ed 303.

In Ed 436—Advanced Material Forming—2 cr. (1 and 3)
Advanced consideration of studies initiated in In Ed 301, developments, and evaluation of instructional materials and problems. Inspection trips and reports. *Prerequisite:* In Ed 301.

In Ed 438—Advanced Machining—2 cr. (1 and 3)
Advanced consideration of studies initiated in In Ed 401, new developments, industrial measurements, and evaluation of instructional materials and problems. Inspection trips and reports. *Prerequisite:* In Ed 401.

In Ed 441—Comprehensive General Shop Practices—2 cr. (1 and 3)
A study of the problems and administration of the comprehensive general shop program. Objective is to consider planning multiple activity programs for the secondary school level. *Prerequisite:* In Ed 416.

In Ed 442T*—Competency Testing in Vocational Subjects—3 cr. (3 and 0)
This course is especially designed for trade teachers who have assisted in making trade tests for S. C. Certification program. Teachers who expect to assist in making trade tests are also urged to enroll in this course. The course is devoted to revising present trade tests and developing tests in new fields. (Offered in Summer Session only.)

In Ed 446T*—Shop Planning and Layout—3 cr. (3 and 0)
This course is designed for shop teachers, coordinators, local supervisors, department heads and directors. The content covers the actual planning of unit shop and general shops for schools giving vocational trade and industrial arts courses, including machine layouts for various kinds of shops in order to make instruction effective. Emphasis is placed on all aspects of shop organization and management. (Offered in Summer Session only.)

In Ed 447—Curriculum Development in Industrial Education—3 cr. (3 and 0)
Basic consideration in curriculum construction, departmental coordination of subject matter with other school subject, curriculum modification, and staff organization in curriculum development. *Prerequisite:* In Ed 425.

* "T" courses for certification and recertification purposes only.

IN ED 451T*—PROBLEMS IN VOCATIONAL EDUCATION—3 cr. (3 and 0)
The expanding program of vocational education under the George-Barden Act and problems on national, state and local levels are discussed. Major specific problems involved in unit trade programs, out-of-school youth, selection and training of teachers, veterans' training and others are covered. (Offered in Summer Session only.)

IN ED 496T*—PUBLIC AND INDUSTRIAL RELATIONS FOR VOCATIONAL TEACHERS AND SUPERVISORS—3 cr. (3 and 0)
This course is to give vocational teachers the techniques and methods of effective public and industrial relations which will contribute to the understanding and cooperation of labor, business, professional, and industrial groups with the school program. (Offered in Summer Session only.)

INDUSTRIAL ENGINEERING

MR. LAITALA

MR. D. C. BROCK, MR. COUCH, MR. DUNKLE, MR. MEEKS,
MR. MORGAN, MR. NEWTON, MR. REID

IE 101—MANUFACTURING PROCESSES—2 cr. (0 and 6)
Qualitative analysis of diverse manufacturing processes available to the engineer for generating geometrical and physical properties of materials required in engineering design. This course covers wood processes and pattern design, casting, heat treatment, forging, metal forming, welding, metal cutting, and other processes. Presented through lecture, demonstration, and laboratory work.

IE 201—MANUFACTURING PROCESSES—2 cr. (1 and 3)
Continuation of IE 101. Change of material geometry by material removal. Study of metal cutting process and other methods of material removal. Presented through lecture, demonstration, and laboratory. *Prerequisite:* EG 106 or 108, Math 106, IE 101.

IE 301—INTRODUCTION TO INDUSTRIAL ENGINEERING—3 cr. (3 and 0)
A systems analysis of engineering through critical study of governing criteria, modes of analysis, basic engineering plans, measures of engineering performance, interdependency of functional divisions of engineering, organization of the engineering process, and project administration. *Prerequisite:* IE 201 and Phys 212.

IE 302—METAL JOINING—2 cr. (1 and 3)
A study of the weldability of metals; choice of equipment and welding materials; pre-treatment and after-treatment of welds; inspection and testing; the economics of welding; safety considerations. *Prerequisite:* IE 101 and EG 108.

IE 303—JOB EVALUATION AND WAGE INCENTIVES—3 cr. (3 and 0)
An analysis of the mental and physical requirements, responsibilities and working conditions of jobs, and the several systems of determining the relative worth of jobs, including wage determination. Job evaluation plans and wage incentive systems and their maintenance. *Prerequisite:* IE 301 or IE 307 or IE 410.

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* "T" courses for certification and recertification purposes only.

IE 304—Motion and Time Study—3 cr. (2 and 3)
Fundamentals relating to individual work place analysis and design. Methods of reducing complex production systems into elemental operations. Principles of human motions. Fundamentals of measurement and their application to work measurement involving man and machine systems. *Prerequisite:* Phys 212 and Junior standing.

IE 305—Work Simplification and Standardization—3 cr. (3 and 0)
Principles and practices of motion and time as it is applied to industry. Emphasis is given to its application and its influence on methods, material handling, plant layout, and time study procedures. (For students not majoring in Engineering.) *Prerequisite:* IE 307.

IE 306—Process Fundamentals—3 cr. (2 and 3)
Principles underlying the transformation of the geometry of materials by processes of material removal, forming, casting, and joining. *Prerequisite:* MetE 302 and IE 301.

IE 307—Survey of Engineering—3 cr. (3 and 0)
An examination of engineering in terms of types of fundamentals employed, governing parameters, basic plans, basic engineering functions, organization of divided engineering efforts, and measures of performance. Offered to students not majoring in engineering. *Prerequisite:* Phys 202 and Junior standing.

IE 401—Process Analysis and Control—3 cr. (2 and 3)
Process measurements and instruments. Application of statistical principles to analysis and control of production processes, studies of process capabilities, sampling inspection, work sampling, tolerance analysis, and machine interference. *Prerequisite:* Math 403, IE 306.

IE 403—Process Fundamentals—3 cr. (2 and 3)
Continuation of IE 306 and study of power requirements, tool forces, tool life, tool planning, machine programming methods. *Prerequisite:* IE 306, EM 304, ME 304.

IE 404—Engineering Economic Analysis—3 cr. (3 and 0)
Analysis of differences between engineering alternatives involving materials, processes, projects, machines, etc., short and long term investments, machine replacement, elements of manufacturing cost and cost allocation, project cost estimating. Introduction to operations research. *Prerequisite:* Senior standing in Engineering.

IE 407—Quality Control—3 cr. (3 and 0)
Study and application of statistical methods to control the quality in manufacture. Control chart fundamentals. Analysis of sampling plans and sampling tables. (For Engineering students not majoring in Industrial Engineering.) *Prerequisite:* Senior standing in Engineering.

IE 408—Plant Design—2 cr. (0 and 6)
Integration of unit operations into a total production system. Study of analytical procedures for determining layout of production and other facilities, line balance, manner in which operations shall be linked or material moved between them. Creation and analysis of alternative designs. Fundamentals of plant location. *Prerequisite:* Taken concurrently or preceded by IE 404 and IE 406.

IE 409—Professional Development and Thesis—2 cr. (1 and 3)
Library studies and oral reports covering recent technical developments in the field of Industrial Engineering. Consideration of professional responsibilities and post-graduation plans for self-improvement. Training in experimental method through laboratory investigation and thesis. *Prerequisite:* Engl 301, IE 401.

IE 410—Engineering and Organization—3 cr. (3 and 0)
A study of the nature of industrial enterprise in terms of purpose, organizational structure, governing criteria, responsibilities and relationships of various functional groups. Special emphasis is given to analysis, organization, and coordination of engineering functions. *Prerequisite:* Senior standing in Engineering.

IE 411—Production Control—3 cr. (3 and 0)
Fundamentals underlying the determination of production capacity requirements, economic lot sizes, and the regulating of flow and storage of materials to, within, and from the production system. Elements of forecasting, determination of materials requirements, scheduling, inventory control, etc. Consideration of data processing methods. *Prerequisite:* IE 403.

INDUSTRIAL MANAGEMENT

Mr. Trevillian
Mr. Davis, Mr. Edel, Mr. Willis, Mr. Whitehurst,
Mr. Scott, Mr. LaRoche

IM 201—Introduction to Industrial Management—3 cr. (3 and 0)
An introductory survey of management's role as a fourth factor of economic production. Fully one-third of the course is devoted to introducing the student to formal logic as an analytical tool in communication and decision making.

IM 301—Cost Accounting—3 cr. (3 and 0)
The application of cost analysis to manufacturing and distributing problems. Analysis of the behavior characteristics of business costs and a study of principles involved in standard cost systems. Lectures and problems. *Prerequisite:* Acct 201 and 202.

IM 302—Industrial Management—3 cr. (3 and 0)
Management problems and methods involved in the operation of manufacturing institutions, including location, equipment investment, organization structure, and budgets. Attention is given primarily to the above areas by the use of the case method. Emphasis on oral and written communication. *Prerequisite:* Junior standing.

IM 304—Quality Control—3 cr. (3 and 0)
A study of basic control techniques in the field of industrial production, inspection and experimentation. Various sampling, control and inspection problems are studied with special reference to practical applications. Underlying theory, assumptions and limitations are presented. *Prerequisite:* Math 303.

IM 305—Income Taxation—3 cr. (3 and 0)
Interpretation of Federal Income Tax laws, regulations, and court decisions with practice in application of these laws to the returns of individuals, partnerships, and corporations. *Prerequisite:* Junior standing.

IM 306—Corporation Finance—3 cr. (3 and 0)

A study of the organization and operation of corporations with emphasis on the nature and influences of the various sources of funds. *Prerequisite:* Junior standing.

IM 307—Personnel Management—3 cr. (3 and 0)

An introductory course dealing with the principles and policies governing present day employee-employer relationships. Attention directed to methods of electing, training, placing, and promoting of employees to develop sound personnel techniques. *Prerequisite:* Junior standing.

IM 308—Marketing—3 cr. (3 and 0)

An examination of the activities involved in the flow of goods and services from the producer to the consumer. A study of the basic functions of marketing and the problems involved in the operation of market institutions. Particular emphasis on the industrial phases of the above. *Prerequisite:* Econ 202.

IM 402—Production Planning and Control—3 cr. (3 and 0)

Methods of controlling the flow of personnel, machines and materials by means of scheduling, dispatching and routing. Includes a study of layout of equipment and facilities within the factory, and methods of materials handling. *Prerequisite:* Senior standing.

IM 403—Special Problems—2 cr. (2 and 0)

Each student will plan and develop a research project related to the field of management. *Prerequisite:* Senior standing in Industrial Management.

IM 404—Managerial Economics—3 cr. (3 and 0)

Includes an introduction to statistical decision theory, econometrics, and quantitative applications of economic tools in his role as decision maker and forward planner. *Prerequisite:* Econ 314 and Senior standing.

IM 405—Economics of Transportation—3 cr. (3 and 0)

History and structure of transportation systems of the United States; the nature of transportation costs and rates. Transportation systems as factors in industrial location. Government policy towards transportation. *Prerequisite:* Senior standing and permission of the instructor.

IM 406—Theory of Industrial Location—3 cr. (3 and 0)

A theoretical study of the general factors which determine plant location in a capitalist society. Particular attention would be paid to the selection of location sites by small nonbranch manufacturing plants. A comparison of location theory and actual location patterns would be stressed. *Prerequisite:* IM 405.

IM 407—Special Problems—1 cr. (1 and 0)

Each student will plan and develop a research project related to the field of management. *Prerequisite:* Senior standing in Industrial Management.

IM 501—Quantitative Economic Analysis—3 cr. (3 and 0)

IM 502—Finance—3 cr. (3 and 0)

IM 503—Production Management—3 cr. (3 and 0)

IM 504—Managerial Policy—3 cr. (3 and 0)

IM 505—Quality Control—3 cr. (3 and 0)

IM 591—Thesis—3 cr.

IM 592—Thesis—3 cr.

MATHEMATICS

Mr. Sheldon

Mr. Hind, Mr. Miller, Mr. Bell, Mr. Brown, Mr. Coker, Mr. Harden, Mr. Kirkwood, Mr. LaGrone, Mr. Palmer, Mr. Park, Mr. Rife, Mr. Stanley, Mr. Stuart, Mr. Sullivan, Mr. Andrews, Mr. Armstrong, Mrs. Dunkle, Mr. Flatt, Mr. King, Mr. Schindler, Mr. Stritzinger, Mr. Tilley, Mr. Derrick, Mrs. Fulmer, Miss Hardy

Math 100—Remedial Mathematics—Non-Credit (5 and 0)
Required of all freshmen who fail to make a satisfactory grade on the placement examination in mathematics. An intensified review of high school algebra. Students enrolled in Math 100 must receive a passing grade in this course before they are eligible to enroll in Math 105. Any student who has passed a course in freshman mathematics is ineligible to enroll in Remedial Mathematics.

Math 105—Freshman Mathematics—4 cr. (3 and 2)
A unified course in algebra and trigonometry. *Prerequisite:* A satisfactory grade on the placement examination.

Math 106—Freshman Mathematics—4 cr. (3 and 2)
Equations of higher degree, complex numbers, progressions, permutations, combination, and probability, and analytic geometry. *Prerequisite:* Math 105.

Math 200—An Introduction to the Calculus—3 cr. (3 and 0)
An introduction to the calculus of algebraic functions. (This course is not a prerequisite for Math 205.)

Math 205—Calculus I—4 cr. (3 and 2)
Differentiation and its application to maxima and minima problems, curve sketching, related rates, and differentials; integration and its application to areas, volumes, and lengths of curves. *Prerequisite:* Math 106.

Math 206—Calculus II—4 cr. (3 and 2)
Additional methods of integration, vectors, partial differentiation, multiple integrals, infinite series and hyperbolic functions. *Prerequisite:* Math 205.

Math 301—Advanced Algebra—3 cr. (3 and 0)
An advanced treatment of ratio and proportion, variation, progressions, surds, imaginary quantities, permutations, multinomial expansions, inequalities. *Prerequisite:* Math 106.

Math 302—Theory of Equations—3 cr. (3 and 0)
Complex numbers, theorems on roots of polynomial equations, approximations, determinants, matrices and symmetric functions. *Prerequisite:* Math 206.

Math 303—Statistics—3 cr. (3 and 0)
Descriptive statistics, elementary probability, sampling distributions, normal distribution, point and interval estimation, testing of hypotheses, correlation and regression. *Prerequisite:* Math 106.

MATH 306—ORDINARY DIFFERENTIAL EQUATIONS—3 cr. (3 and 0)
Linear equations with constant coefficients, simultaneous equations, linear equations of second order, series solutions, applications to physics and engineering. *Prerequisite:* Math 206.

MATH 307—ELEMENTARY PARTIAL DIFFERENTIAL EQUATIONS—3 cr. (3 and 0)
Partial differentiation and space geometry, origins of partial differential equations, linear and non-linear equations of the first order, Fourier series, linear equations of the second and higher orders. *Prerequisite:* Math 306.

MATH 309—THEORY OF APPROXIMATIONS—3 cr. (2 and 3)
Approximation techniques using tables and calculators; numerical solutions to equations; approximations with series; error analysis; elements of numerical differentiation and integration; Boolian Algebra, binary operations, applications to data reduction and computer theory. *Prerequisite:* Math 206.

MATH 310—PROGRAMMING THE DIGITAL COMPUTER—2 cr. (1 and 3)
Programming techniques for the RPC 4000. Assembly routines and the use of a compiler are included. *Prerequisite:* Math 206 or the permission of the instructor.

MATH 311—INTRODUCTION TO MODERN ALGEBRA—3 cr. (3 and 0)
An introduction to the concepts of algebra. Topics included are: the number system; elementary theory of groups; rings, integral domains, and fields; matrices over a field; determinants and matrices; groups, rings, and ideals. *Prerequisite:* Math 206.

MATH 401—COLLEGE GEOMETRY—3 cr. (3 and 0)
Theorems and concepts more advanced than those of high school geometry. A treatment of the various properties of the triangle, including the notable points, lines, and circles associated with it. *Prerequisite:* Math 106.

MATH 402—THEORY OF PROBABILITY—3 cr. (3 and 0)
A study is made of mathematical models of random phenomena, the theory of counting sets of n-tuples, mean and variance of a probability law, law of large numbers, the Stieltjes integral. The course includes a study of normal, Poisson, and related probability laws. *Prerequisite:* Math 206.

MATH 403—MATHEMATICAL STATISTICS—3 cr. (3 and 0)
Probability, frequency functions, empirical and theoretical frequency distributions, moment generating functions, large-sample theory and applications, correlation and regression. The course includes practical methods as well as the mathematical theory necessary to the understanding and judicious application of those methods. *Prerequisite:* Math 206.

MATH 404—MATHEMATICAL STATISTICS—3 cr. (3 and 0)
A continuation of Math 403. Goodness of fit, testing of hypotheses and estimation, small-sample distributions, design of experiments, analysis of variance, non-parametric methods. *Prerequisite:* Math 403.

MATH 405—FUNDAMENTALS OF ECONOMETRICS—3 cr. (3 and 0)
Selected topics from the algebra, geometry, and calculus of functions of more than one independent variable. Applications to economics and to the construction of mathematical models. *Prerequisite:* Math 206 and Econ 314 or consent of instructor.

MATH 450T—MATHEMATICS IN THE ELEMENTARY SCHOOL—3 cr. (3 and 0)
This course presents background for a better understanding and appreciation of the mathematical material in the instruction program of the elementary school. Special attention is given to the number system, the fundamental operations, percentage and measurement. Methods of teaching, problem solving evaluation are also considered. (Offered in Summer Session only.)

MATH 451—VECTOR ANALYSIS—3 cr. (3 and 0)
The algebra and calculus of vectors in two and three dimensions with applications to physics, geometry and engineering problems. *Prerequisite:* Math 306.

MATH 452—LINEAR PROGRAMMING—3 cr. (3 and 0)
An introduction to linear programming, using elementary matrix algebra and the theory of convex polygons. Applications to managerial problems, operations research, economic behavior, the theory of games and military strategy are considered. *Prerequisite:* Math 206 or permission of the instructor.

MATH 453—ADVANCED CALCULUS—3 cr. (3 and 0)
The definite integral, multiple integrals, line integrals, surface integrals, partial differentiation, Green's and Stoke's theorems, sequence and power series. *Prerequisite:* Math 306.

MATH 454—ADVANCED CALCULUS—3 cr. (3 and 0)
An introduction to Laplace transform, Fourier series, functions of a complex variable and the calculus of variations. *Prerequisite:* Math 453.

MATH 502—DETERMINANTS AND MATRICES—3 cr. (3 and 0)

MATH 503—THEORY OF FUNCTIONS OF COMPLEX VARIABLES I—3 cr. (3 and 0)

MATH 504—THEORY OF FUNCTIONS OF COMPLEX VARIABLES II—3 cr. (3 and 0)

MATH 505—NUMERICAL ANALYSIS—3 cr. (3 and 0)

MATH 506—CALCULUS OF FINITE DIFFERENCES—3 cr. (3 and 0)

MATH 508—FOURIER SERIES—3 cr. (3 and 0)

MATH 509—OPERATIONAL MATHEMATICS—3 cr. (3 and 0)

MATH 515—PROJECTIVE GEOMETRY—3 cr. (3 and 0)

MATH 520—RESEARCH TECHNIQUES—3 cr. (3 and 0)

MATH 551T—FUNDAMENTAL CONCEPTS IN MATHEMATICS I—3 cr. (3 and 0)

MATH 552T—FUNDAMENTAL CONCEPTS IN MATHEMATICS II—3 cr. (3 and 0)

MATH 560T—THE TEACHING OF SECONDARY MATHEMATICS—3 cr. (3 and 0)

MATH 591—RESEARCH—3 cr.

MATH 592—RESEARCH—3 cr.

MECHANICAL ENGINEERING

MR. COOK

MR. BRADBURY, MR. EDWARDS, MR. LEWIS, MR. RAUSCH, MR. WATSON, MR. A. C. ELROD, MR. HAMMOND, MR. HUDSON, MR. PERRY, MR. W. C. ELROD, MR. JOHNSON

ME 214—ENGINEERING PROBLEMS—1 cr. (0 and 3)

Designed to develop an analytical approach to the solution of engineering problems at an elementary level. *Prerequisite:* Sophomore standing, Math 106, and enrollment in Phys 211.

ME 302—ELEMENTARY THERMODYNAMICS—3 cr. (3 and 0)

An engineering science course for those curriculums requiring only one course in thermodynamics. The laws of thermodynamics with applications to general engineering systems. *Prerequisite:* Junior standing, Phys 212, Math 206.

ME 304—HEAT TRANSFER I—3 cr. (3 and 0)

A comprehensive study of the principles of heat transmission with applications to engineering problems. Special emphasis is given to the following topics: heat conduction in the steady and unsteady states; dimensional analysis of convection; free and forced convection; the combined effects of conduction, convection and radiation. *Prerequisite:* Junior standing, ME 302 or ME 311, or Chem 336, Math 306.

ME 307—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

For those curriculums requiring one course in Mechanical Engineering Laboratory. The course is intended to illustrate mechanical engineering theory and to develop experimental technique. Experiments in the fields of heat power, heat transfer, refrigeration and air conditioning and turbo-machinery are covered. *Prerequisite:* ME 302.

ME 311—ENGINEERING THERMODYNAMICS I—3 cr. (3 and 0)

The first of a two-semester sequence treating thermodynamics as an engineering science. Thermodynamic laws, properties, systems, processes, and cycles are emphasized to give an appreciation for and understanding of both the physical and mathematical aspects. However, a distinctly engineering perspective is maintained. *Prerequisite:* Math 206, Phys 212, ME 214, and Junior standing.

ME 312—ENGINEERING THERMODYNAMICS II—3 cr. (3 and 0)

A continuation of ME 311. *Prerequisite:* ME 311.

ME 314—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

Application of engineering theory to steady flow equipment, energy balances, and instrumentation. *Prerequisite:* ME 311.

ME 316—KINEMATICS AND DYNAMICS OF MACHINES—3 cr. (2 and 3)

A study of the displacements, velocities, accelerations and forces encountered in the analysis of machines. The application of these fundamentals to the analysis of linkage and cams; to gearing; and to miscellaneous mechanisms. *Prerequisite:* EM 303.

ME 401—FUNDAMENTALS OF MACHINE DESIGN—3 cr. (3 and 0)

Studies in making decisions. Development of creative ability in the synthesis of machines and machine elements. The role of stress, strain, and vibrations.

Selection of materials. Special emphasis is given to fatigue and combined stresses applied to modern machinery. *Prerequisite:* ME 316, EM 304, Senior standing, concurrent registration in MetE 302.

ME 402—Mechanical Engineering Design—3 cr. (1 and 6)
A synthesis course requiring the student to make decisions based on his previous education and experience in the design of one or more engineering systems or devices. *Prerequisite:* ME 304, ME 312, ME 401, EE 308, EE 310, Senior standing.

ME 403—Gas Dynamics—3 cr. (3 and 0)
Basic concepts, fundamental equation of steady flow, isentropic flow, flow with heat transfer, flow with friction, wave phenomena, variable area flow and introduction to multidimensional flow. Taught second semester only. *Prerequisite:* ME 312, EM 401, Senior Engineering standing.

ME 404—Automatic Control Engineering—3 cr. (3 and 0)
Study of characteristics of processes and controllers, as applied to closed loop feed back control systems. Transient, sinusoidal and stability analysis. Taught second semester only. *Prerequisite:* Math 306, EM 401, ME 312, ME 304, Senior Engineering standing.

ME 405—Seminar—1 cr. (1 and 0)
A course designed to acquaint the student with the latest research, development, and publications in the field of mechanical engineering. A library research paper is required of each student. *Prerequisite:* Senior Engineering standing.

ME 407—Heat Transfer II—3 cr. (3 and 0)
An engineering science course dealing with the transfer of energy. This course is designed to supplement and extend the material covered in ME 304. A rigorous study of conduction, convection, and radiation including transient and periodic heat transfer and an introduction to mass and momentum transport phenomena. Taught first semester only. *Prerequisite:* ME 304, Math 306, and Senior standing.

ME 408—Design of Machine Elements—3 cr. (2 and 3)
Design of machines and machine components, including analysis synthesis, layout, and reports. A synthesis course with emphasis on making decisions. *Prerequisite:* ME 401.

ME 411—Gas Power—3 cr. (3 and 0)
A senior synthesis course designed to apply the applicable phases of the basic and engineering sciences. Theoretical and actual cycles, performance characteristics, fuels, combustion, equilibrium, cooling, dynamics. Taught first semester only. *Prerequisite:* ME 304, 312, EM 401, and Senior standing.

ME 412—Steam Power—3 cr. (3 and 0)
A senior synthesis course designed to apply the basic and engineering sciences. Topics stressed are the design, arrangement and economic justification of steam power plant equipment. Taught second semester only. *Prerequisite:* ME 304, 312, EM 401, and Senior standing.

ME 413—Mechanical Engineering Laboratory—1 cr. (0 and 3)
A senior laboratory course for mechanical engineers intended to develop ability to devise experiments which will yield essential data. Interpretation of

results and skill in written presentation of engineering information are stressed. The course illustrates mechanical engineering theory in the fields of heat power, refrigeration and air conditioning, heat transfer and turbo-machinery. Taught first semester only. *Prerequisite:* ME 304, ME 312, ME 314 and Senior Mechanical Engineering standing.

ME 414—Mechanical Engineering Laboratory—1 cr. (0 and 3)
A continuation of ME 413. Taught second semester only. *Prerequisite:* ME 304, ME 312, ME 314, and Senior Mechanical Engineering standing.

ME 416—Engineering Analysis—1 cr. (0 and 3)
To develop the student's capacity to deal with new situations by applying initiative, analytical thought processes, and fundamental principles. Problems actually confronted by practicing engineers are covered. Taught first semester only. *Prerequisite:* ME 302 or ME 312, ME 304, and Senior Engineering standing.

ME 417—Engineering Analysis—1 cr. (0 and 3)
A continuation of ME 416. Taught second semester only. *Prerequisite:* ME 302 or ME 312, ME 304, and Senior Engineering standing.

ME 421—Internal Combustion Engines—3 cr. (3 and 0)
Internal combustion engine process analysis, deviation from the ideal process, carburetion, fuel injection. A general study of both the design and the operating variables. Detailed analysis of the thermochemical processes and associated effects of dissociation. *Prerequisite:* ME 411 or equivalent.

ME 422—Principles of Turbomachinery—3 cr. (3 and 0)
A study of the guiding principles underlying all forms of turbomachinery. A unified treatment of turbomachinery to include pumps, fans, compressors and steam, gas and hydraulic turbines. Dimensional analysis as applied to turbomachinery, Eulers Equation, concepts of specific speed and thermodynamics of turbomachine processes and allied topics are covered. Taught first semester only. *Prerequisite:* Senior Engineering standing, ME 304, 312 and EM 401.

ME 423—Internal Combustion Engine Analysis—1 cr. (0 and 3)
Analysis of latest technical articles on I. C. engines. Students report on selected articles. Students must give reasons for the new process or method described, supported by basic theory. Each student then selects a field of interest for his own analysis problem and with suggestions from instructor completes an analysis and reports his findings to the class. *Prerequisite:* Senior Mechanical Engineering standing and enrollment in ME 411.

ME 429—Air Conditioning—3 cr. (3 and 0)
A senior synthesis course designed to apply the principles of the applicable phases of the basic and engineering sciences. A study of the principles of heating and air conditioning, including calculation of heat loss and heat gains for buildings, heating and cooling systems, psychrometric principles, air distribution, refrigeration and automatic control apparatus. Taught first semester only. *Prerequisite:* ME 304, 312, and Senior standing.

ME 430—Air Conditioning Design—1 cr. (0 and 3)
A practical application of the theory covered in ME 429. *Prerequisite:* Enrollment in ME 429.

ME 433—Elementary Aerodynamics—3 cr. (3 and 0)
Topics include physical properties of atmospheric air, the perfect fluid, the Bernoulli Equation, the general force equation, airfoil characteristics, aspect ratio and plan form influences, viscosity phenomena and compressibility phenomena. *Prerequisite:* ME 312, EM 401.

ME 434—Refrigeration—2 cr. (2 and 0)
A thermodynamic analysis of the principles of refrigeration; a study of the design, operating principles and application of compression, absorption and steam jet systems of refrigeration. *Prerequisite:* ME 304 and ME 312.

ME 464—Lubrication—2 cr. (2 and 0)
Application of hydrodynamic and hydrostatic theory to the design and analysis of journal and thrust bearings. *Prerequisite:* ME 401.

ME 501—Advanced Air Conditioning—3 cr. (3 and 0)

ME 510—Advanced Thermodynamics—3 cr. (3 and 0)

ME 511—Advanced Gas Dynamics—3 cr. (3 and 0)

ME 512—Boundary Layer Theory—3 cr. (3 and 0)

ME 524—Propulsion Systems—3 cr. (3 and 0)

ME 532—Applied Heat Transfer—3 cr. (3 and 0)

ME 534—Advanced Heat Transfer—3 cr. (3 and 0)

ME 591—Research—3 cr.

ME 592—Research—3 cr.

METALLURGICAL ENGINEERING

Mr. Thomas, Mr. McCormack

MetE 302—General Metallurgy—3 cr. (3 and 0)
Basic general metallurgy for students in Engineering and related curricula. This course is designed to acquaint students with the properties of metals so that they may select intelligently for engineering applications. The nature of metals and of metal working processes are considered. *Prerequisite:* Junior standing in Engineering.

MetE 350—Metallurgy of Cast Metals—3 cr. (2 and 3)
The fundamentals of melting, fluxing, pouring, and the control of the solidification of metals in molds. The metallurgical aspects of the production of castings in sand molds, permanent molds, shell molds, die casting, and centrifugal casting. Studies of the physical properties of castings. *Prerequisite:* MetE 302.

MetE 408—Heat Treating—3 cr. (2 and 3)
A study of the phase changes in both ferrous and non-ferrous metals caused by changes in environment at significant times in the processing. Studies relating the time-temperature changes in metals with their physical properties. *Prerequisite:* MetE 302.

MetE 423—Metallography—2 cr. (1 and 3)
The development of the techniques necessary for metallographic investigations. The selection of cutting, mounting, and polishing specimens; the use of

microscopes; the techniques of etching, and of photographing. *Prerequisite:* Senior standing in Engineering and MetE 302.

MetE 430—Powder Metallurgy—3 cr. (2 and 3)

The production of metal powders and of articles from these powders. By powder metal techniques it is possible to produce controlled porosity, unconventional alloys and to produce complex parts of limited size rapidly, accurately, and economically. Combinations of metals and non-metals may be produced. *Prerequisite:* Senior standing in Engineering and MetE 302.

MetE 440—Metallurgy of Reactor Materials—3 cr. (2 and 3)

The metallurgy of materials used in reactor construction. The physical metallurgy of metallic fuels, controls, reflectors, and shielding. The effects of radiation on structural metals will be considered. *Prerequisite:* Senior standing and the consent of the instructor.

MetE 450—Metallic Corrosion—3 cr. (2 and 3)

The theory of corrosion in metallic materials and means of preventing corrosion. *Prerequisite:* Senior standing in Engineering and MetE 302.

MetE 455—Electro-metallurgy—3 cr. (2 and 3)

The electrowinning and electrorefining of metals. Electrothermic cells will be studied. The principles and operation of electric furnaces will be considered. Electroplating and electroetching will be studied. For metallurgy majors. *Prerequisite:* Senior standing in Engineering and MetE 302.

MILITARY SCIENCE

Colonel McDowell

Col. Skardon, Lt. Col. Guice, Lt. Col. Herron, Lt. Col. Rutland, Maj. Robbins, Maj. Stark, Capt. Bentley, Capt. Brownlee, Capt. de Vane, Capt. Eberhardt, Capt. Joseph, Capt. Murphy, M/Sgt. Grimes

MS 101—Military Science (Basic)—1 cr. (2 and 1)

An introduction to the study of Military Science and a foundation for continued training in leadership and responsibilities of an officer. Instruction in the guiding principles of organizing personnel with particular application to the Army and ROTC. Theory and practical application of the design, construction, and employment of the primary weapons of military units. Theory and practical application of the basic principles of leadership.

MS 102—Military Science (Basic)—1 cr. (2 and 1)

A continuation of MS 101 including a comprehensive study of military history. Development of the United States Army and progress to the present are stressed with emphasis on the factors which developed the type of organization, operational control, tactical methods, means of supply, and similar patterns in the present Army. Theory, practical application, and development of leadership is continued.

MS 201—Military Science (Basic)—1 cr. (2 and 1)

Theory and practical application of the principles of preparation, reading, interpretation and use of maps and aerial photographs in the study and evaluation of terrain. A study of the missions and responsibilities of the United States Army as a member of the National Defense Team. Continued development of the characteristics of leadership by supervised solution of problems involved in the command of small units.

MS 202—Military Science (Basic)—1 cr. (2 and 1)
Continuation of MS 201. Continued study of the United States Army and National Defense including manpower and training, and research and new developments. Continued study of command of small units to include tactics and principles of control and employment. Continued development of leadership through the study and supervised practical application of guiding principles.

MS 301—Military Science (Advanced)—3 cr. (3 and 1)
Theoretical and practical training in the responsibilities and basic qualities of a leader; educational techniques and psychology; and the roles of the combat arms and technical and administrative services of the Army. Further training for duty as officers by application of principles of leadership in actual command during drills, parades, reviews, inspections and ceremonies.

MS 302—Military Science (Advanced)—3 cr. (3 and 1)
A continuation of MS 301. Study and practical application of the techniques of organization, control, and employment of military units with particular attention to personnel management and the application of leadership principles in directing small tactical units. A study and familiarization with principles and means of electrical and other methods of communication. Continued training in the practical application of leadership principles in the development of individual character, initiative, confidence and other attributes essential to an officer.

MS 401—Military Science (Advanced)—3 cr. (3 and 1)
A study of advanced subjects of leadership, command, and staff which, when correlated with other college courses and disciplines, will develop the individual character and attributes essential to an officer or civilian leader. Principal subjects are executive types of organizations, problem solving and the transmission of decisions into instructions, and the responsibilities of executives regarding organizational training. Applicatory phases of leadership are stressed throughout.

MS 402—Military Science (Advanced)—3 cr. (3 and 1)
A continuation of MS 401. Principal subjects include systems of industrial type supply, basic concepts of administration, fundamentals of civilian and military justice, a comprehensive orientation on geographic and economic factors and their influence on the divisions of peoples into nations and the courses of war, and the responsibilities of a leader. Student participation is emphasized throughout this last semester of Military Science.

MUSIC

Mr. McGarity

Music 103—Class Basic Piano—1 cr. (0 and 3)
Designed for beginning piano students meeting in groups as large as eight for three one-hour periods each week. The emphasis is on basic technique and rudiments essential for a successful initial keyboard experience. No previous training in music is required.

Music 104—Class Basic Piano—1 cr. (0 and 3)

A sequel of Music 103 in which piano students meet in groups as large as eight for three one-hour periods each week. The emphasis is on basic technique and rudiments essential for successful experience in the performance at the piano of music suitable for community sings and similar functions. Students may enroll in Music 104 without having taken Music 103 only by permission of the instructor.

Music 310—Music Appreciation: Music in the Western World—3 cr. (3 and 0)

A course designed to widen and deepen the student's appreciation of his musical heritage through a study of the development of music in Western culture from the time of the early Christians to the present. Not open to students who have taken Music 402.

Music 400T—Music in the Elementary School Classroom—3 cr. (3 and 0)

Designed to give the teacher in the elementary school a familiarity with music suitable for use with children at the elementary level. Recordings of appropriate music, pre-band instruments, unison and part singing will be included. No previous training in music is required. (Offered in Summer Session only.)

Music 405—Music Theory—3 cr. (3 and 0)

The principles of notation, its symbols and abbreviations, major and minor scales, intervals and chords; measure, rhythm and tempo, and the terminology of music are the principal topics covered in this course.

Music 411—American Music: Music Appreciation—3 cr. (3 and 0)

A study of music in America from 1620 to the present. Indigenous and borrowed influences will be examined.

NUCLEAR ENGINEERING

Mr. Rich

NE 501—Nuclear Reactor Engineering I—3 cr. (3 and 0)

NE 502—Nuclear Reactor Engineering II—3 cr. (3 and 0)

PHILOSOPHY

Mr. Edwards

Phil 301—Introduction to Philosophy—3 cr. (3 and 0)

An analysis of the major problems and systems of philosophy. *Prerequisite:* Junior standing and permission of instructor.

Phil 302—Logic—3 cr. (3 and 0)

An introduction to the methods and techniques of logic and continuing to elementary symbolic logic.

PHYSICS

MR. HUFF

MR. LINDSEY, MR. J. E. MILLER, MR. C. A. REED, MR. A. R. REED, MR. VOGEL, MR. WOOD, MR. M. G. MILLER, MR. SHACKELFORD, MR. SKOVE, MR. STILLWELL, MR. COLLINS, MR. GILREATH

PHYS 201—GENERAL PHYSICS—3 cr. (3 and 0)
Motion; equilibrium; the conservation of momentum, mass and energy; vibrations; waves; temperature and heat. *Prerequisite:* Registration in Phys 203.

PHYS 202—GENERAL PHYSICS—3 cr. (3 and 0)
A continuation of Phys 201: Optics of lenses and mirrors; light waves; electric charges and currents, magnetism, electric and magnetic fields; properties of atomic particles; structure of atoms. *Prerequisite:* Phys 201 and registration in Phys 204.

PHYS 203—GENERAL PHYSICS LABORATORY—1 cr. (0 and 3)
Experiments designed to test or exemplify the laws studied in Phys 201 and to introduce precision measuring instruments. *Prerequisite:* Registration in Phys 201.

PHYS 204—GENERAL PHYSICS LABORATORY—1 cr. (0 and 3)
A continuation of Phys 203 using optical and electrical instruments. *Prerequisite:* Registration in Phys 202.

PHYS 211—GENERAL PHYSICS FOR ENGINEERS AND SCIENTISTS—4 cr. (4 and 0)
Mechanics, sound and heat, including the laws of motion; rotation; equilibrium; vibratory and wave motion; mechanical and thermal properties of solids, liquids and gases; with emphasis on the solution of problems. *Prerequisite:* Math 106; registration in Phys 213.

PHYS 212—GENERAL PHYSICS FOR ENGINEERS AND SCIENTISTS—4 cr. (4 and 0)
A continuation of Phys 211 covering the laws of electric and magnetic fields; electric currents and circuits; geometrical and physical optics; spectra; atomic physics. *Prerequisite:* Phys 211; registration in Phys 214.

PHYS 213—GENERAL PHYSICS LABORATORY—1 cr. (0 and 3)
Experiments based on the laws studied in Phys 211, the theory and use of precise measuring apparatus, the treatment of observed data and significant figures. *Prerequisite:* Registration in Phys 211.

PHYS 214—GENERAL PHYSICS LABORATORY—1 cr. (0 and 3)
A continuation of Phys 213 with emphasis on the accurate measurement of electrical quantities and the properties of light. *Prerequisite:* Registration in Phys 212.

PHYS 304—DESCRIPTIVE ASTRONOMY—3 cr. (3 and 0)
The properties of the planets and their satellites, their actual and apparent motions; the properties of stars and galaxies; current theories and speculations. *Prerequisite:* Phys 202 or 212.

PHYS 305—PHOTOGRAPHY—3 cr. (2 and 3)
Various phases of photography including photographic optics, sensitivity of negative materials, making prints and enlargements, composition of pictures *Prerequisite:* Phys 202 or 212; permission of the instructor.

PHYS 308—SOUND AND ACOUSTICS—3 cr. (3 and 0)

Production, propagation, properties and measurement of sound waves with emphasis on the acoustics of buildings. *Prerequisite:* Phys 202 or 212; registration in Math 205.

PHYS 321—MECHANICS I—3 cr. (3 and 0)

Statics; motions of particles and rigid bodies; vibratory motion; gravitation; properties of matter, flow of fluids.

PHYS 323—EXPERIMENTAL MECHANICS—1 cr. (0 and 3)

Precise measurements of mass, length and time; experiments with pendulums, gyroscopes, fluid flow; determination of the gravitational constant. *Prerequisite:* Registration in Phys 321.

PHYS 332—LIGHT—3 cr. (3 and 0)

A study of images formed by mirrors and lenses; aberrations; the effect of stops and the design of optical instruments. Application of Maxwell's equations to optical problems. Interference phenomena. *Prerequisite:* Phys 202 or 212; Math 206.

PHYS 341—ELECTRICITY AND MAGNETISM—3 cr. (3 and 0)

Electric circuits; electromagnetic induction; properties of capacitors and inductors as circuit elements; A. C. circuit problems by vector methods and by use of complex numbers; electrostatic fields. *Prerequisite:* Phys 212; Math 206.

PHYS 343—ELECTRICAL MEASUREMENTS—2 cr. (1 and 3)

Theory and practice of electrical measurements. Measurements with precision electrical instruments including potentiometers, bridges and ballistic galvanometers; includes both D.C. and A.C. measurements. *Prerequisite:* Registration in Phys 341.

PHYS 351—INTRODUCTION TO MODERN PHYSICS—3 cr. (3 and 0)

The properties of electrons, protons and other atomic particles; elementary quantum theory and its applications to photoelectric effect, X rays and Bohr theory of atomic structure. *Prerequisite:* General Physics.

PHYS 353—MODERN PHYSICS LABORATORY—1 cr. (0 and 3)

Measurements of the charge and mass of the electron, studies of thermo and photo-electric effects, measurements with radioactive materials and with X rays. *Prerequisite:* Registration in Phys 351.

PHYS 401—SENIOR THESIS—3 cr. (1 and 6)

The senior thesis is a semi-original piece of work performed under the direction of a member of the physics staff. The project is done in any one of the various fields of physics, but is usually associated with *X*-ray studies, electron microscopy, electronics or spectroscopy. *Prerequisite:* At least three Physics courses beyond General Physics.

PHYS 421—MECHANICS II—3 cr. (3 and 0)

Dynamics of particles and of rigid bodies, Lagrangian and Hamiltonian formulations, vibrations of strings, wave propagation. *Prerequisite:* Phys 321 or permission of instructor.

PHYS 432—PHYSICAL OPTICS AND INTRODUCTION TO SPECTROSCOPY—3 cr. (3 and 0)
Theory and application of interference and diffraction phenomena, polarized light, magneto-optics and electro-optics. Introductory theory of spectroscopy. *Prerequisite:* Phys 332.

PHYS 434—OPTICS LABORATORY—1 cr. (0 and 3)
Measurement of the effect of varying the magnitude of optical parameters in optical instruments. Identification of unknown spectra using a reflection grating spectroscope and a quartz spectroscope. Foucault-Michelson method of determining the velocity of light. *Prerequisite:* Phys 332 and registration in Phys 432.

PHYS 441—ELECTRICITY AND MAGNETISM—3 cr. (3 and 0)
Electric potential; properties of dielectrics; magnetic fields due to moving charges; magnetic properties of materials; Maxwell's field equations with applications. Vector analysis is used throughout. *Prerequisite:* Phys 341 or equivalent; registration in Math 306.

PHYS 452—INTRODUCTORY NUCLEAR PHYSICS—3 cr. (3 and 0)
Various phases of nuclear physics including natural and induced radioactivity; properties of alpha, beta and gamma-rays; cosmic rays; nuclear energy levels and decay schemes; particle accelerators, fission, fusion and nuclear reactors. *Prerequisite:* Phys 451 or permission.

PHYS 454—NUCLEAR PHYSICS LABORATORY—1 cr. (0 and 3)
Techniques and instruments used in detection and measurement of nuclear radiation. Experiments include half-life determination, absorption measurements, neutron activation, coincidence measurements, decay schemes, and gamma-ray spectroscopy. *Prerequisite:* Registration in Phys 452.

PHYS 455—MODERN PHYSICS II—3 cr. (3 and 0)
Elements of relativity theory and quantum mechanics with application to the properties of atoms, molecules and solids. *Prerequisite:* Phys 351 or permission of instructor.

PHYS 460T—MODERN PHYSICS FOR HIGH SCHOOL TEACHERS—3 cr. (3 and 0)
A study of later developments including the measurements of atomic particles. The formulation of new laws and the modifications of old ideas needed to describe the interactions of these particles.

PHYS 465—HEAT AND THERMODYNAMICS—4 cr. (4 and 0)
A study of temperature, development of the laws of thermodynamics and their application to thermodynamic systems. An introduction to low temperature physics is given.

PHYS 471—ELECTRON MICROSCOPY—3 cr. (2 and 3)
The theory and operation of the electron microscope. Magnetic lens theory. The technique of specimen mounting and the interpretation of electron micrographs and diffraction patterns. Each student may choose specimens from his major field. *Prerequisite:* General Physics, Math 206 and permission of instructor.

PHYS 501T—PHYSICS FOR HIGH SCHOOL TEACHERS I—3 cr. (3 and 0)

PHYS 502T—PHYSICS FOR HIGH SCHOOL TEACHERS II—3 cr. (3 and 0)

PHYS 505—SPECIAL PROBLEMS—3 cr. (0 and 9)

Phys 513—Thermodynamics and Statistical Mechanics—3 cr. (3 and 0)

Phys 521—Classical Mechanics I—3 cr. (3 and 0)

Phys 522—Classical Mechanics II—3 cr. (3 and 0)

Phys 541—Electrodynamics—3 cr. (3 and 0)

Phys 542—Radiation Theory—3 cr. (3 and 0)

Phys 545—Solid State I—3 cr. (3 and 0)

Phys 546—Solid State II—3 cr. (3 and 0)

Phys 551—Introduction to Quantum Mechanics—3 cr. (3 and 0)

Phys 553—Nuclear Physics I—3 cr. (3 and 0)

Phys 554—Nuclear Physics II—3 cr. (3 and 0)

Phys 555—X-ray Diffraction—3 cr. (3 and 0)

Phys 556—Crystallography—3 cr. (3 and 0)

Phys 575—Seminar in Contemporary Physics—1 or 2 or 3 cr. (1 or 2 or 3 and 0)

Phys 585—Colloquium—0 or 1 cr. (1 and 0)

Phys 591—Research—3 cr.

Phys 592—Research—3 cr.

Phys 622—Hydrodynamics—3 cr. (3 and 0)

Phys 651—Quantum Mechanics I—3 cr. (3 and 0)

Phys 652—Quantum Mechanics II—3 cr. (3 and 0)

Phys 655—Advanced Modern Physics I—3 cr. (3 and 0)

Phys 656—Advanced Modern Physics II—3 cr. (3 and 0)

Phys 666—Relativity—3 cr. (3 and 0)

Phys 691—Doctoral Research and Dissertation—Credit to be arranged

POULTRY SCIENCE

Mr. Barnett

Mr. Boone, Mr. Cooper

PS 201—Introduction to Poultry Science—3 cr. (2 and 3)
The application of the physical and biological sciences to modern poultry production and utilization. A study of the anatomy and physiology of the fowl and the economic aspects of poultry enterprises.

PS 352—Poultry Nutrition—3 cr. (2 and 3)
Nutrient requirements of the various classes of poultry and the use of feedstuffs in meeting these needs. *Prerequisite:* PS 201, AH 301.

PS 354—Poultry Breeding—3 cr. (2 and 3)
The application of genetics to the improvement of poultry and the effectiveness of different selection methods and mating systems. *Prerequisite:* PS 201, Agron 302.

PS 355—Poultry Grading and Processing—3 cr. (2 and 3)
Classifying and grading of market eggs and poultry, and the preparation, packaging, processing, storage, and preservation of eggs and poultry. *Prerequisite:* PS 201.

PS 457—Incubation and Brooding—3 cr. (2 and 3)
Principles and practice of incubation and brooding and study of other factors related to successful operations. *Prerequisite:* PS 201.

PS 458—Poultry Diseases and Parasites—3 cr. (2 and 3)
Causes, occurrence, symptoms, prevention, treatment, and eradication of poultry diseases and parasites. *Prerequisite:* PS 201, Bact 301.

PS 460—Seminar—2 cr. (2 and 0)
Current research reported in journals covering the various areas of poultry science. *Prerequisite:* Permission of instructor.

PS 501—Poultry Nutrition and Metabolism—3 cr. (2 and 3)

PS 502—Avian Physiology—3 cr. (2 and 3)

PS 504—Poultry Pathology—3 cr. (1 and 6)

PS 505—Seminar—1 cr. (1 and 0)

PS 591—Research—3 cr.

PS 592—Research—3 cr.

PSYCHOLOGY

Mr. Waite, Mr. Cesaratto

Psych 301—General Psychology—3 cr. (3 and 0)
A survey of the field of psychology: development and adjustment, motivation, emotions, intelligence, personality, the sensory experiences, perception, learning, thinking, imagination and mental hygiene. *Prerequisite:* Junior standing.

Psych 302—Social Psychology—3 cr. (3 and 0)
A study of the interaction between the individual and the forces of society: the classical theories, the psychobiological bases of human behavior, the sociocultural bases of behavior, types of human behavior, overt and covert experiences, symbolism, personality and social interaction. *Prerequisite:* Psych 301.

Psych 401—Applied Psychology—3 cr. (3 and 0)
An advanced course based upon the concepts of general psychology. The material includes causation in behavior, the psychology of attitudes, morale, the basic principles of motivation and work, individual differences, psychological testing in industry, interview techniques, motion and time analysis, industrial fatigue, psychological fatigue and related phenomena, accidents and their prevention, the working environment, psychological factors in labor turnover, advertising and consumer psychology and psychology in professional life. *Prerequisite:* Psych 301.

Psych 402—Abnormal Psychology—3 cr. (3 and 0)
A study of mental and emotional disorders: theories of causation and problems of treatment; special phenomena of consciousness and unconsciousness, e.g., dreams, dissociation, hypnosis; analysis of pathological behavior: alco-

holism, drug addiction, suicide, criminality, neurosis, and psychoneurosis. *Prerequisite:* Psych 301.

RELIGION

Mr. Arrington, Mr. Hudnall

Rel 301—The Old Testament—3 cr. (3 and 0)
A survey of the Old Testament.

Rel 302—A Survey of New Testament Literature—3 cr. (3 and 0)
A survey of the books of the New Testament, studies as to content, literary form and purpose. Some consideration is given to the life and teachings of Jesus and the letters of Paul.

RURAL SOCIOLOGY

Mr. Aull Mr. Boyd

RS 301—Rural Sociology—3 cr. (3 and 0)
A study of human social relationships as modified by life in the country including a consideration of the farm family, its housing, health, schooling, recreational opportunities, relation to land and other similar topics.

RS 454—Farmers' Movements—3 cr. (3 and 0)
An examination of the efforts of farmers to organize for the improvement of agriculture. The first local agricultural societies, the Grange, Farmers' Alliance, and like movements, are then studied in their chronological order of development.

RS 459—The Community—3 cr. (3 and 0)
The growth and development of the rural community with emphasis on organization of the community for its effective functioning in a changing society.

RS 461—Rural Leadership—3 cr. (3 and 0)
Social and psychological factors involved in rural leadership including an examination and analysis of characteristics of the successful leader, and the role of the leader in the rural community.

RS 501—Rural Social Systems—3 cr. (3 and 0)

RUSSIAN

Mr. Conis

Russ 101—Elementary Russian—3 cr. (3 and 0)
Training in pronunciation, grammatical forms, and syntax with a view of giving the student the fundamentals necessary to read simple Russian texts.

Russ 102—Elementary Russian—3 cr. (3 and 0)
A continuation of Russ 101.

Russ 201—Intermediate Russian—3 cr. (3 and 0)
The reading of simple Russian prose; a review of grammar and syntax. Drill on vocabulary and idiom. *Prerequisite:* Russ 101 and 102.

Russ 202—Intermediate Russian—3 cr. (3 and 0)
A continuation of Russ 201.

SOCIOLOGY

MR. BURTNER, MR. WAITE, MR. CESARATTO

Soc 301—INTRODUCTORY SOCIOLOGY—3 cr. (3 and 0)

The basic principles of sociology: culture, biological factors, the influence of geographical environment, human nature, group life, social classes, communities, social institutions and social change. *Prerequisite:* Junior standing.

Soc 302—SOCIAL PROBLEMS—3 cr. (3 and 0)

A survey of the major social problems, including problems of industry, education, religion, disease and public health, poverty, dependency and factors affecting social adjustment. *Prerequisite:* Soc 301.

Soc 402—THE FAMILY—3 cr. (3 and 0)

An inquiry into the problems of marriage and family life: the history of the family, the sociology of family life, mate selection and courtship, husband-wife relationships, parent-child interaction, divorce, and conservation of family values. *Prerequisite:* Senior standing.

Soc 403—CRIMINOLOGY—3 cr. (3 and 0)

A consideration of the major problems of crime and its treatment: causes of crime, criminal behavior, theories and practices in the treatment of criminals, and prevention of crime. *Prerequisite:* Soc 301.

Soc 404—SOCIAL ANTHROPOLOGY—3 cr. (3 and 0)

Recent and contemporary man, as a social and culture-bearing animal with emphasis on the constants and variants in human behavior involved in technology, social relations, language, religion, art, and other aspects of cultures. *Prerequisite:* Soc 301.

Soc 405—INDUSTRIAL SOCIOLOGY—3 cr. (3 and 0)

A study of industry as a social organization together with the scientific examination of personality in industrial relations; the factory as a social system; problems of management; problems of labor; problems of special groups in industry; labor-management relations; and industry and the community. *Prerequisite:* 3 cr. of sociology and permission of the instructor.

Soc 406—REGIONAL SOCIOLOGY—3 cr. (3 and 0)

An analysis and survey of American regions emphasizing facts, factors and policies pertaining to geography, population, culture, resources and waste, social institutions, and planning. *Prerequisite:* 3 cr. of sociology.

Soc 407—SOCIOLOGICAL THEORY—3 cr. (3 and 0)

A survey of the growth of sociological theory considered from the viewpoint of the development of representative schools, their interrelationships, and convergences in mid-twentieth century theory. Required of all students presenting sociology as a secondary field of concentration. *Prerequisite:* 6 semester hours in sociology.

Soc 408—SOCIAL STRUCTURE—3 cr. (3 and 0)

Analysis of social structure and stratification in terms of class, status, prestige, rank, and function. Attention is given to the social role of the elite, bureaucracies, and professional and middle classes. *Prerequisite:* 6 semester hours in sociology.

SPANISH

MR. CONIS, MR. KINDERMANN, MR. MIXON

SPAN 101—ELEMENTARY SPANISH—3 cr. (3 and 0)

A course for beginners in which, through conversation, composition and dictation, the fundamentals of the language are taught, and a foundation provided for further study and the eventual ability to read and speak the language.

SPAN 102—ELEMENTARY SPANISH—3 cr. (3 and 0)

A continuation of Span 101, in which a reader is also used.

SPAN 201—INTERMEDIATE SPANISH—3 cr. (3 and 0)

A short review of grammar with conversation, composition and dictation continued from Span 102, and the beginning of more serious reading of Spanish prose in short stories or novels.

SPAN 202—INTERMEDIATE SPANISH—3 cr. (3 and 0)

While attention is paid to writing and speaking Spanish, more stress is laid on the rapid reading of more difficult Spanish prose than in the earlier courses.

SPAN 301—ADVANCED SPANISH—3 cr. (3 and 0)

Rapid reading of difficult literary or scientific Spanish prose.

SPAN 302—ADVANCED SPANISH—3 cr. (3 and 0)

A continuation of Span 301, with selections being made to suit the needs of the students.

TEXTILE CHEMISTRY AND DYEING

MR. LINDSAY, MR. CHANIN, MR. ROBBINS

TC 305—TEXTILE CHEMISTRY—4 cr. (4 and 0)

For Textile Chemistry majors covering aliphatic organic compounds with major emphasis on products essential to the textile industry. *Prerequisite:* Chem 104.

TC 306—TEXTILE CHEMISTRY—4 cr. (4 and 0)

A continuation of TC 305 and 307, covering the aromatic compounds with particular attention to the chemistry of dyes and dye intermediates. *Prerequisite:* TC 305.

TC 307—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be taken concurrently with TC 305.

TC 308—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be taken concurrently with TC 306.

TC 321—INTRODUCTION TO TEXTILE CHEMISTRY—3 cr. (3 and 0)

The basic chemistry of the textile fibers and the reactions which are involved in the chemical processing of these fibers. The emphasis is placed on the properties and chemical behavior of such substances as cellulose, starch, resins, and detergents as well as the natural and synthetic fibers. *Prerequisite:* Chem 102.

TC 322—THE CHEMICAL PROCESSING OF TEXTILES—3 cr. (3 and 0)

The processes and economics involved in the preparation of fibers for use in textiles, and of the finishing processes employed after manufacture. Included in the topics are scouring, bleaching, mercerizing, flameproofing, stabilization, water repellency, wrinkle recovery. *Prerequisite:* TC 321.

TC 323—Textile Chemistry Laboratory—1 cr. (0 and 3)
This course is to be taken concurrently with TC 321.

TC 324—Textile Chemistry Laboratory—1 cr. (0 and 3)
This course is to be taken concurrently with TC 322.

TC 421—Color Applied to Textiles—3 cr. (3 and 0)
Color, its source, its effects and its relation to chemical structure. The processes of applying color by dyeing and printing are covered, and the comparative values of the various dye groups to both the textile manufacturer and the consumer are discussed. *Prerequisite:* TC 321.

TC 423—Textile Chemistry Laboratory—1 cr. (0 and 3)
This course is to be taken concurrently with TC 421.

TC 440—Textile Finishing—3 cr. (1 and 6)
The principles involved in the application of finishes to textiles, with emphasis on the newer developments in this rapidly expanding phase of textile chemistry. The laboratory work covers practical work in color matching as well as the application of a wide range of finishes. *Prerequisite:* TC 306.

TC 442—Thesis—2 cr. (0 and 6)
An investigation by each Textile Chemistry senior of an assigned problem related to textile processing. A formal written report is required from each student. *Prerequisite:* Senior standing.

TC 447—The Chemical Processing of Textile Materials—3 cr. (3 and 0)
For Textile Chemistry majors similar to TC 421 and 423 except that it is more comprehensive with emphasis on the problems involved in the supervision of a textile finishing plant. *Prerequisite:* TC 306.

TC 449—Textile Chemistry Laboratory—1 cr. (0 and 3)
This course is to be scheduled concurrently with TC 447.

TC 456—Chemistry of Synthetic Fibers and Finishes—3 cr. (3 and 0)
The chemistry of large molecular substances such as nylon, vinyon, the rayons, and the protein-type synthetics. The varied synthetic resins used for special effects on textiles are covered in detail. *Prerequisite:* TC 306.

TC 462—The Chemical Processing of Textiles—3 cr. (3 and 0)
A continuation of TC 447 which covers textile printing and the more complicated dyeing processes.

TC 464—The Chemical Processing of Textiles Laboratory—1 cr. (0 and 3)
This course is to be taken concurrently with TC 462.

TC 475—Cellulose Chemistry—2 cr. (2 and 0)
The constitution and behavior of cellulose and its derivatives. Particular attention is given to the purification of wood and other raw materials used for the preparation of rayon pulps. *Prerequisite:* TC 306 and 308.

TC 511—The Theory and Application of Synthetic Resinous Materials—3 cr. (2 and 3)

TC 512—The Theory and Application of Synthetic Resinous Materials—3 cr. (2 and 3)

TC 521—Advanced Cellulose Chemistry—3 cr. (3 and 0)

TC 531—Chemistry of Coloring Matters—3 cr. (2 and 3)

TC 591—Research—3 cr.

TC 592—Research—3 cr.

TEXTILE MANAGEMENT

Mr. Campbell, Mr. LaRoche, Mr. Richardson, Mr. Wray

TM 101—Introduction to Textiles—3 cr. (2 and 3)
An introduction to textile manufacturing. Elementary studies of staple fibers, and machinery involved in converting them into yarns and fabrics.

TM 301—Textile Quality Control—3 cr. (3 and 0)
The theory underlying quality control procedures, and an introduction to these procedures with particular reference to the textile industry. The material covered includes probability, frequency, distributions, and various lot acceptance sampling plans. *Prerequisite:* Junior standing.

TM 302—Textile Quality Control—3 cr. (3 and 0)
A continuation of TM 301. The practical use of statistics and quality control in industry with particular reference to textiles. Control charts for variables, control charts for fraction defective, and control charts for defects per unit are presented, along with some statistics which are useful in industrial research. *Prerequisite:* TM 301.

TM 403—Textile Management—3 cr. (3 and 0)
Management techniques used in: Mill buildings and equipment lay-out and care; personnel management; relations with external organizations including labor unions; safety promotions; production planning and control; material, machine and labor cost control; budgeting; employment; training; standards; product sales; purchasing; quality control; textile company organization and control. *Prerequisite:* Senior standing or permission of instructor.

TM 405—Textile Costing—3 cr. (2 and 3)
The principles of costing as they apply to the manufacture of textiles. Allocating the cost of material, labor and overhead; determining the costs of individual yarns and fabrics; valuing the inventory; making of cost reports and payroll analysis. *Prerequisite:* Seniors majoring in Textiles.

TM 407—Textile Costing—3 cr. (2 and 3)
A continuation of TM 405. *Prerequisite:* TM 405.

TM 454—Motion and Time Study—3 cr. (2 and 3)
Job analysis; methods study; work place layout; time study and incentives; theory and practical work. *Prerequisite:* Senior standing or permission of instructor.

TM 460—Natural Fibers—3 cr. (3 and 0)
Fundamental properties of textile fibers as studied from the chemical, physical and botanical side. The microscopic and molecular structure development in the plant, and extraction and preparation from the plant. Survey of plant fibers and fiber plants and more complete discussion of the main natural (plant and animal) fibers. Methods of fiber research. *Prerequisite:* Senior standing.

TM 462—Textile Microscopy—2 cr. (1 and 3)

Especially planned to enable the student to utilize the microscope for examination and identification of textile fibers and materials used in the textile and related industries. *Principal Topics:* The preparation of the various materials used in the textile industry for microscopic examination. *Prerequisite:* Senior standing or permission of instructor.

TM 464—Physical Textile Testing—2 cr. (1 and 3)

The important machines and techniques used in physical testing of yarns and fabrics. The applications of testing in modern textile research are stressed. *Prerequisite:* Senior standing or permission of instructor.

TM 468—Seminar—1 cr. (1 and 0)

Visiting lecturers will be invited in to talk on things of general interest in the industry. *Prerequisite:* Senior standing or permission of instructor.

WEAVING AND DESIGNING

Mr. McKenna

Mr. Cartee, Mr. Hubbard, Mr. Tarrant, Mr. Walters, Mr. Williams

WD 221—Fabric Design—3 cr. (2 and 3)

To give a practical working knowledge of the weaves used in fabricating many elementary and some complex woven fabrics. It is a continuation of the design work given in TM 101 and will include the derivatives of the foundation weave and the more complex weaves used in special and compound fabrics. *Prerequisite:* TM 101.

WD 225—Loom Mechanisms—2 cr. (1 and 3)

To give theoretical and practical working knowledge of the construction, mechanical operation, and adjustments of the cam loom.

WD 226—Loom Mechanisms—2 cr. (1 and 3)

A continuation of WD 225 and will include studies of the construction, mechanical operation, and adjustment of the dobby, box, and jacquard mechanisms. *Prerequisite:* WD 225.

WD 301—Fabric Structure and Design—2 cr. (1 and 3)

The plans, drafts and specifications required for the production of plain, leno, and figured fabrics. Leno mechanisms and design; warp and filling lay-outs; weave combinations; fabric construction; ratio of intersections; harness, reed and chain plans; warping and slashing plans. *Prerequisite:* WD 221.

WD 302—Fabric Analysis—2 cr. (1 and 3)

The analysis of fabrics as they come to the mill for reproduction. Methods of determining yards per pound from a small sample and from the yarn counts; overall and ground construction; selection of yarn counts; determining the design, drawing-in-draft, chain draft and reed plan; warp dressing plan; cotton, wool, silk and rayon fabrics. *Prerequisite:* WD 221.

WD 309—Knitting—1 cr. (0 and 3)

The principles of knitted fabric construction and hosiery production. Knitting mechanisms, construction of knitted fabrics and hosiery, rib knitting, hosiery machinery, fancy knitting and knitting calculations.

WD 401—Warp Preparation—2 cr. (1 and 3)

Warping and slashing mechanisms and the plans and requirements for efficient operation. Types of warping equipment; slashing machinery; size mixtures and processing methods for cotton, rayon and other fibers. *Prerequisite:* WD 301.

WD 402—Fabric Development—3 cr. (2 and 3)

Production of woven patterns as studied in fundamental courses in the Weaving and Designing Department. Fabric development, analysis and cloth order problems. *Prerequisite:* WD 226, 301, 302.

WD 403—Advanced Designing—3 cr. (2 and 3)

A continuation of WD 221 covering the more complex weaves for double cloths, pile fabrics, and jacquard effects. *Prerequisite:* WD 221 and WD 226.

YARN MANUFACTURING

Mr. Thomson, Mr. Marvin, Mr. Wilson

YM 221—Opening and Blending—3 cr. (2 and 3)

The necessity for blending, opening and preliminary cleaning and the equipment for doing this on cotton and man-made fibers. Waste and other calculations, measuring devices and evener motions. Basic cotton classing.

YM 222—Cleaning—3 cr. (2 and 3)

Cleaning and processing as done by the card and comber. Settings and speeds. Calculations for draft production and waste. Job distribution and work loads. Theory of fiber separation. *Prerequisite:* YM 221 or permission of the instructor.

YM 301—Roving Frames—3 cr. (2 and 3)

The construction and operation of fly frames. Drafting, twisting and winding on slubbers, intermediates, and Jack frames; production, rolls, spindles and flyers, differential motions and cones, twist per inch; all calculations for these topics.

YM 321—Drafting, Twisting and Winding I—3 cr. (2 and 3)

Roller drafting as done by the drawing frame and roving frame. Rollsettings and drafting systems. Twisting and winding as done on the roving frame. Calculations applying to drawing frames and roving frames. Job distribution and work loads. *Prerequisite:* YM 222 or permission of the instructor.

YM 322—Drafting, Twisting and Winding II—3 cr. (2 and 3)

The manufacturing possibilities of the ring spinning frame and ring twister as they are used in the processing of staple fibers. The theory of the spindle, ring and traveler, drafts, twist, builder motions, production, general machine construction, and problems applicable to machines. Job distribution and work loads. *Prerequisite:* YM 321 or permission of the instructor.

YM 401—Yarn Manufacturing Problems—3 cr. (2 and 3)

A thesis type course of planning, record keeping and writing a report on a yarn manufacturing problem. Problem will include processing. *Prerequisite:* Senior standing.

ZOOLOGY

Mr. Cochran

Mr. Reed, Mr. Anderson, Mr. King, Mr. Ware, Mr. Webb, Mr. Adkins, Mr. Buxton, Mr. Tombes

Zool 101, 103—General Zoology—4 cr. (3 and 3)

Thorough training in fundamental animal types and zoological principles. The morphology, physiology, behavior, reproduction, ecology, embryology, zoogeography, evolution and palaeontology of each phylum are presented.

Zool 301—Comparative Vertebrate Anatomy—3 cr. (2 and 3)

Advanced training in zoological principles, physiology and comparative vertebrate anatomy. *Prerequisite:* Zool 101, 103.

Zool 302—Vertebrate Embryology—3 cr. (2 and 3)

Fundamentals of developmental anatomy of the organ systems as illustrated by the chick and pig. Students prepare histological sections and mounts to acquire practice in laboratory procedures and knowledge of vertebrate microscopic anatomy. Identification of the various tissues is stressed. *Prerequisite:* Zool 101, 103 and 301.

Zool 304—Animal Ecology—2 cr. (1 and 3)

Marine, fresh water and land animal communities as they exist in South Carolina. Students will gain a knowledge of the common animal associations as they are related to land use through lectures, reading, films and field trips.

Zool 306—Game Management—2 cr. (2 and 0)

Breeding habits of game animals and birds and type of territory desirable. The ethics of sportsmanship and the control of predators are among other subjects covered.

Zool 307—Animal Anatomy and Physiology—3 cr. (2 and 3)

Anatomy, and physiological processes of ingestion, secretion, excretion, respiration, circulation, reproduction and metabolism of warm-blooded animals. This course is designed for students majoring in Pre-Medicine, Pre-Veterinary, Animal Husbandry, Dairy and Poultry. *Prerequisite:* Zool 101, 103.

Zool 308—Applied Zoology—2 cr. (2 and 0)

The fundamental principles of zoology are presented along with a brief description of the important phyla of animals. The management and control of animals of economic importance excluding domestic animals and the nature of animal diseases is included. This is a terminal course designed for engineering students who do not plan further work in the field. *Prerequisite:* Bot 101.

Zool 312—Wildlife Management—3 cr. (2 and 3)

Basic principles and general practices of Wildlife Management and Conservation will be covered. This course deals with the major problems concerning the management of Wildlife Resources, with emphasis on upland game species. The laboratory work includes practical work on the Clemson College Woodlands and field trips to several areas where wildlife management is being practiced.

Zool 403—Protozoology—3 cr. (2 and 3)

Taxonomy of the sub-kingdom protozoa with special reference to the parasitic forms directly affecting man. Representative types of free-living forms are surveyed with emphasis on their morphology, physiology and distribution. *Prerequisite:* Zool 101, 103.

ZOOL 404—ANIMAL PATHOLOGY—3 cr. (2 and 3)

A course designed to inform students in the causes, treatments, and prevention of animal diseases. Those transmissible to man are considered in detail. Emphasis is placed on hygiene and care of the sick.

ZOOL 405—ANIMAL HISTOLOGY—3 cr. (2 and 3)

Microscopic structures of tissues and organs of the animal body. This course is for students in Pre-Veterinary, Pre-Medicine and the Animal Science courses. *Prerequisite:* Zool 101, 103.

ZOOL 456—PARASITOLOGY—3 cr. (2 and 3)

Parasites affecting man and domestic animals. Life cycles, vectors and practical controls are emphasized.

ZOOL 458—CELL PHYSIOLOGY—3 cr. (2 and 3)

An introduction to the fundamental processes of physiology as exemplified by the cell. Dynamic cellular environment, irritability and response, metabolism, respiration and growth and differentiation will be studied. *Prerequisite:* Zool 101, 103, Organic Chemistry.

ZOOL 501—ANIMAL HISTOLOGY—3 cr. (2 and 3)

ZOOL 502—HISTOLOGICAL TECHNIQUES—3 cr. (1 and 6)

ZOOL 503—ANIMAL ECOLOGY—4 cr. (2 and 6)

ZOOL 504—ORNITHOLOGY—3 cr. (2 and 3)

ZOOL 505—ANIMAL PATHOLOGY—3 cr. (3 and 0)

ZOOL 511—RECENT ADVANCES IN ZOOLOGY AND ENTOMOLOGY I—1 cr. (1 and 0)

ZOOL 512—RECENT ADVANCES IN ZOOLOGY AND ENTOMOLOGY II—1 cr. (1 and 0)

ZOOL 513—EVOLUTION—3 cr. (3 and 0)

ZOOL 552—PRINCIPLES AND METHODS OF SYSTEMATIC ZOOLOGY—2 cr. (2 and 0)

ZOOL 556—ECONOMIC ZOOLOGY—3 cr. (2 and 3)

ZOOL 591—RESEARCH—3 cr.

ZOOL 592—RESEARCH—3 cr.

PART VI

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J. F. Wise, B.S.‡ .... Extension Livestock Specialist, Marketing
S. G. Woods, B.S.† .... Assistant Animal Husbandman, Edisto Station

Botany, Bacteriology, and Plant Pathology

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R. W. Rutledge, Ph.D.* .... Professor of Botany
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Wesley Witcher, Ph.D.* † .... Associate Professor of Botany, Associate Forest Pathologist

Community and Public Affairs

O. W. Lloyd, M.S.‡ .... Rural Development Specialist

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C. D. Clawson, B.S.‡ . . . . . Extension Assistant Dairy Specialist
Cecil Conley, Ph.D.† . . . . . Assistant Dairy Scientist
W. C. Cook, B.S.† . . . . . Herdsman
C. G. Cushman, B.S.‡ . . . . . Leader, Dairy Extension Work
R. W. Henningson, Ph.D.* † . . . . . Associate Professor of Dairy Science Associate Dairy Scientist
Victor Hurst, Ph.D.* † . . . . . Professor of Dairy Science, Dairy Scientist
J. J. Janzen, Ph.D.* † . . . . . Associate Professor of Dairy Science, Associate Dairy Scientist
J. W. Kelly, B.S.† . . . . . Research Assistant
W. A. King, Ph.D.* † . . . . . Professor of Dairy Science, Dairy Scientist
J. T. Lazar, Jr., Ph.D.* † . . . . . Associate Professor of Dairy Science, Associate Dairy Scientist
C. H. Lomas, M.A.‡ . . . . . Extension Dairy Specialist
S. L. Moore, D.V.M.† ¶ . . . . . Assistant State Veterinarian
G. D. O'Dell, M.S.† . . . . . Assistant Dairy Scientist
C. B. Reeves, M.S.‡ . . . . . Extension Dairy Technologist

Entomology and Zoology

J. H. Cochran, Ph.D.* † . . . . . Head of Department, Professor of Entomology and Zoology, State Entomologist
T. R. Adkins, Jr., Ph.D.* † . . . . . Associate Entomologist, Associate Professor of Entomology and Zoology
H. R. Agee, M.S.† . . . . . Entomologist, Pee Dee Station (USDA)
Norman Allen, M.S.† . . . . . Entomologist, Pee Dee Station (USDA)
G. W. Anderson, D.V.M., M.S.*— Associate Professor of Zoology and Veterinary Medicine
J. A. Buxton, Ph.D.* ‡ . . . . . Assistant Professor of Entomology and Zoology, Assistant Entomologist
C. S. Creighton, B.S.† . . . . . Assistant Entomologist, Pee Dee Station (USDA)
F. P. Cuthbert, Jr., B.S.† . . . . . Assistant Entomologist, Truck Station (USDA)
Augustine Day, B.S.† . . . . . Assistant Entomologist, Truck Station (USDA)
R. C. Fox, Ph.D.* † . . . . . Assistant Professor of Entomology and Zoology, Assistant Entomologist
A. R. Hopkins, M.S.† . . . . . Assistant Entomologist, Pee Dee Station (USDA)
W. S. Kinard, B.S.† . . . . . Entomology Assistant, Pee Dee Station
E. W. King, Ph.D.* † . . . . . Associate Entomologist, Associate Professor of Entomology and Zoology

* Teaching staff.
† Research staff.
‡ Extension staff.
¶ Parttime.

V. M. Kirk, Ph.D.* † .... Associate Entomologist, Associate Professor of Entomology, Pee Dee Station
Frances McAlister, B.A.† .... Entomology Assistant
J. W. Matteson, Ph.D.† .... Entomologist, Pee Dee Station (USDA)
R. F. Moore, Jr., Ph.D.† .... Entomologist, Pee Dee Station (USDA)
W. C. Nettles, M.S.‡ .. Leader, Extension Entomology and Plant Disease Work
J. K. Reed, Ph.D.* † ...... Entomologist, Professor of Entomology and Zoology
W. J. Reid, Jr., B.S.† .... Entomologist, Truck Station (USDA)
L. M. Sparks, Jr., M.S.‡ .... Extension Entomologist
H. M. Taft, Ph.D.† .... Entomologist, Pee Dee Station (USDA)
A. S. Tombes, Ph.D.* † .... Assistant Professor of Entomology and Zoology, Assistant Entomologist
S. G. Turnipseed, Ph.D.† .... Assistant Entomologist, Edisto Station
R. E. Ware, B.S.* .... Associate Professor of Entomology and Zoology
Lloyd G. Webb, Ph.D.* † .... Associate Professor of Zoology, Leader, Clemson Wildlife Research Project

Farms

John S. Evans, B.S.† .... Head of Department

Fertilizer Inspection and Analysis, Agricultural Chemistry, Research Division

B. D. Cloaninger, M.S.† .... Director
Dorothy Brock, B.S.† .... Fertilizer Assistant Chemist
D. W. Eaddy, M.S.† .... Research Assistant
J. E. Earle, B.S.† .... Research Assistant
A. W. Garrison, M.S.† .... Fertilizer Assistant Chemist
B. L. Hawkins† .... Laboratory Technician
Edna C. Kay, B.A.† .... Fertilizer Laboratory Technician
Jean H. Lanier, B.S.† .... Agricultural Chemistry Assistant
E. E. Leslie, B.S.† .... Fertilizer Associate Chemist
C. G. Littleton † .... Fertilizer Laboratory Technician
W. R. McCaskill, M.S.† .... Research Assistant
Mary Lee McCrackan, A.B.† .... Fertilizer Assistant Chemist
R. E. O'Brien, M.S.† § .... Research Assistant
Nancy N. Preston † .... Laboratory Technician
L. E. Priester, Jr., M.S.† .... Research Assistant
H. J. Webb, Ph.D.† .... Head, Agricultural Chemistry Research, Chief Chemist and Toxicologist

Food Technology and Human Nutrition

J. H. Mitchell, Jr., Ph.D.* † .... Head of Department, Professor of Food Technology, Food Technologist
R. F. Borgman, D.V.M., Ph.D.† .... Associate Nutritionist
Marie S. Hindman, M.S.† .... Assistant Home Economist
E. J. Lease, Ph.D.† .... Nutritionist
A. L. Shewfelt, Ph.D.* † .... Associate Professor of Food Technology, Associate Food Technologist
H. O. Wheeler, Ph.D.† .... Assistant Nutritionist

Forestry

Koloman Lehotsky, Ph.D.* † .... Head of Department, Professor of Forestry, Forester
W. J. Barker, B.S.‡ .... Leader, Forestry Extension Work
M. H. Bruner, M.F.* † .... Associate Professor of Forestry, Forester
B. M. Cool, Ph.D.* † ...... Associate Professor of Forestry, Associate Forester
N. B. Goebel, M.S.† .... Associate Forester

* Teaching staff.
† Research staff.
‡ Extension staff.
§ On leave.

C. W. Hall, B.S.‡ .... Extension Forester, Columbia
C. L. Lane, B.S.* † .... Assistant Professor of Forestry, Assistant Forester
W. H. D. McGregor, Ph.D.* † .... Associate Professor of Forestry, Associate Forester
S. A. Marbut, B.S.‡ .... Extension Forester
W. C. Randel, M.S.* † ..... Associate Professor of Forestry, Associate Forester
L. D. Reamer, B.S.† .... Assistant Forester
W. A. Shain, M.F.* † .... Assistant Professor of Forestry, Assistant Forester
A. T. Shearin, B.S.† .... Assistant Forester
R. D. Shipman, Ph.D.* † . . . Associate Professor of Forestry, Associate Forester
J. R. Warner, D.F.* † ...... Associate Professor of Forestry, Associate Forester

Four-H Club Work

J. B. Williams, B.S.‡ .... State 4-H Club Agent
G. H. Baker, B.S.‡ .... District Boys' 4-H Club Agent, Florence
J. T. Rogers, B.S.‡ .... Acting State Boys' 4-H Club Agent
Georgia M. Taylor, M.Ed.‡ .... State Girls' 4-H Club Agent
Sarah A. Thomas, M.S.‡ .... Assistant State Girls' 4-H Club Agent

Negro Four-H Club Work

Wayman Johnson, M.S.‡ .... Negro Boys' 4-H Club Agent

Home Demonstration

Lucille D. Chandler, B.S.‡ .... House Furnishings Specialist
Ellie Herrick, B.S.‡ .... Extension Family Life Specialist
Janie McDill, M.S.‡ .... Extension Nutritionist
Frances H. Odom, M.A.‡ . . Extension Housing and Food Preservation Specialist
Elizabeth W. Potter, M.A.‡ .... Extension Home Management Specialist
Vela M. Smith, M.S.‡ .... Extension Clothing Specialist
Betty P. Watkins, B.S.‡ .... Extension Consumer Information Specialist

Horticulture

T. L. Senn, Ph.D.* † .... Head of Department Horticulturist and Professor of Horticulture
W. C. Barnes, Ph.D.† .... Superintendent and Horticulturist, Truck Station
H. A. Bowers, M.S.‡ .... Extension Truck Crops Specialist, Barnwell
J. H. Crawford, M.S.† .... Research Assistant
R. J. Ferree, M.S.‡ .... Leader, Extension Horticulture Work
J. P. Fulmer, M.S.* † .... Assistant Horticulturist, Assistant Professor of Horticulture
C. E. Gambrell, Jr., M.S.† .... Assistant Horticulturist, Sandhill Station
W. R. Garren, M.S.‡ .... Extension Horticulturist
M. G. Hamilton, Ph.D.† .... Associate Horticulturist, Edisto Station
M. B. Hughes, Ph.D.† .... Horticulturist, Edisto Station
J. A. Martin, B.S.† .... Associate Horticulturist
W. L. Ogle, Ph.D.* † .... Associate Horticulturist, Associate Professor of Horticulture
H. J. Sefick, M. S.* † .... Associate Horticulturist, Associate Professor of Horticulture
P. M. Smith, M.S.‡ .... Extension Horticulturist
G. E. Stembridge, Ph.D.* † .... Assistant Professor of Horticulture, Assistant Horticulturist
F. W. Thode, M.S.* .... Associate Professor of Horticulture
L. O. Van Blaricom, M.S., Ch.E.* † . . Horticulturist, Professor of Horticulture

Marketing (Headquarters, Columbia)

J. E. Youngblood, B.S.‡ .... Chief, Extension Division Marketing
D. C. Hutchins, B.S.‡ .... Extension Marketing Specialist

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* Teaching staff.
† Research staff.
‡ Extension staff.

C. H. Langford, B.S.‡ .... Extension Marketing Specialist
E. W. Siedschlag, B.S.‡ .... Extension Marketing Specialist
R. D. Steer, B.S.‡ .... Extension Cooperative Marketing Specialist, Greenwood
W. A. Tuten ‡ .... Extension Marketing Specialist

Poultry Science

B. D. Barnett, Ph.D.* † .... Head of Department, Professor of Poultry Science, Poultry Scientist
B. W. Bierer, V.M.D.† .. Poultry Scientist, Laboratory Director, Columbia, S. C.
M. A. Boone, M.S.* † .... Associate Professor of Poultry Science, Associate Poultry Scientist
J. B. Cooper, M.S.* † .... Associate Professor of Poultry Science, Associate Poultry Scientist
P. H. Gooding, M.S.‡ .... Leader, Poultry Extension Work
C. F. Risher, B.S.‡ .... Extension Turkey Specialist, York, S. C.
T. C. Stewart, Sr., B.S.‡ .... Extension Poultryman
K. L. Swiney, B.S.‡ .... Assistant Extension Poultryman
D. E. Turk, Ph.D.† .... Assistant Poultry Scientist
J. F. Welter, B.S.† .... Poultry Science Assistant

Seed Certification

R. H. Garrison, B.S.† .... Head of Department, Associate Plant Breeder
E. M. Huggins, M.S.† .... Assistant Agronomist
E. B. Shands, B.S.† .... Assistant Agronomist

* Teaching staff.
† Research staff.
‡ Extension staff.

COUNTY AGENTS

County	*Name*	*Post Office*
Abbeville	L. H. Bull, B.S.	Abbeville
Aiken	J. H. Evans, B.S.	Aiken
Allendale	W. H. Funchess, M.S.	Allendale
Anderson	H. D. Marett, B.S.	Anderson
Bamberg	G. H. Liebenrood, M.S.	Bamberg
Barnwell	J. B. Griffith, B.S.	Barnwell
Beaufort	W. L. Johnson, M.S.	Beaufort
Berkeley	M. C. Mason, B.S.	Moncks Corner
Calhoun	O. W. Cain, B.S.	St. Matthews
Charleston	C. J. Livingston, B.S.	Charleston
Cherokee	T. B. Lee, M.S.	Gaffney
Chester	D. C. Wylie, Jr., B.S.	Chester
Chesterfield	J. C. Willis, B.S.	Chesterfield
Clarendon	A. D. Grainger, B.S.	Manning
Colleton	L. W. Alford, B.S.	Walterboro
Darlington	W. J. Gray, B.S.	Darlington
Dillon	D. A. Benton, B.S.	Dillon
Dorchester	D. E. Epps, B.S.	St. George
Edgefield	J. W. Gilliam, Jr., B.S.	Edgefield
Fairfield	M. H. Lynn, B.S.	Winnsboro
Florence	H. F. Livingston, Jr., B.S.	Florence
Georgetown	A. E. Liebenrood, B.S.	Georgetown
Greenville	J. K. Jones, B.S.	Greenville
Greenwood	P. M. Garvin, B.S.	Greenwood
Hampton	C. W. Thompson, M.S.	Hampton
Horry	V. M. Johnston, B.S.	Conway
Jasper	E. G. Tate, Jr., B.S.	Ridgeland
Kershaw	W. C. McCarley, B.S.	Camden
Lancaster	F. W. Cannon, B.S.	Lancaster
Laurens	Marett Outz, B.S.	Laurens

County	Name	Post Office
Lee	V. F. Linder, B.S.	Bishopville
Lexington	M. A. Bouknight, B.S.	Lexington
McCormick	G. W. Bonnette, B.S.	McCormick
Marion	J. L. King, B.S.	Marion
Marlboro	E. C. Abrams, M.Agr.	Bennettsville
Newberry	A. F. Busby, B.S.	Newberry
Oconee	J. C. Morgan, B.S.	Walhalla
Orangeburg	J. C. King, B.S.	Orangeburg
Pickens	J. R. Wood, B.S.	Pickens
Richland	R. W. Bailey, B.S.	Columbia
Saluda	W. H. Craven, Jr., B.S.	Saluda
Spartanburg	W. J. Martin, B.S.	Spartanburg
Sumter	T. O. Bowen, B.S.	Sumter
Union	J. L. Cochran, B.S.	Union
Williamsburg	R. A. Jackson, B.S.	Kingstree
York	J. D. Miller, B.S.	York

ASSOCIATE AND ASSISTANT COUNTY AGENTS

County	Name	Post Office
Aiken	M. B. Banton, B.S.	Aiken
Aiken	W. A. Beasley, M.S., Assoc.	Aiken
Allendale	F. E. McLaughlin, Jr., B.S.	Allendale
Anderson	R. C. McDaniel, B.S.	Anderson
Anderson	D. W. Howe, B.S.	Anderson
Anderson	J. E. Barker, B.S.	Anderson
Bamberg	L. R. Allen, B.S.*	Bamberg
Beaufort	C. R. Tuten, B.S.	Beaufort
Berkeley	C. P. Goodyear, B.S., Assoc.	Moncks Corner
Berkeley	B. S. Lawrimore, B.S.	Moncks Corner
Calhoun	R. N. Chastain, B.S.	St. Matthews
Charleston	P. H. Berry, B.S.	Charleston
Cherokee	W. A. Ridgeway, B.S., Assoc.	Gaffney
Chester	C. N. Strange, B.S.	Chester
Chester	F. W. Crouch, Jr., B.S.	Chester
Chesterfield	E. C. Wallace, M.S., Assoc.	Chesterfield
Chesterfield	A. H. Marshall, B.S.	Chesterfield
Clarendon	F. M. Johnson, B.S.	Manning
Colleton	J. R. White, Jr., B.S., Assoc.	Walterboro
Colleton	H. S. Jenkins, M.S., Assoc.	Walterboro
Darlington	C. G. Newton, Jr., B.S., Assoc.	Darlington
Darlington	R. C. DuBose, B.S.	Darlington
Dillon	W. D. Witherspoon, B.S.	Dillon
Dorchester	F. O. McAlhany, B.S.	St. George
Edgefield	W. J. Spiers, Jr., B.S.	Edgefield
Edgefield	J. R. Meredith, M.S.	Edgefield
Fairfield	A. D. Boggs, B.S.	Winnsboro
Florence	J. M. Parnell, B.S.	Florence
Florence	W. H. Eaddy, B.S., Assoc.	Florence
Florence	E. L. Gerald, B.S.	Florence
Greenville	T. J. Bryson, B.S.	Greenville
Greenville	J. C. DeBruhl, B.S.	Greenville
Greenville	G. D. Butler, Special Assistant	Greenville
Greenwood	Elmer Olson, B.S.	Greenwood
Hampton	O. F. Huff, B.S.	Hampton
Hampton	K. B. Mack, B.S.*	Hampton
Hampton	J. L. Hayden, B.S.	Hampton
Horry	J. W. Pruitt, B.S.	Conway
Horry	H. B. Hardee, B.S.	Conway

* Assistant agent on leave.

County	*Name*	*Post Office*
Horry	Charlie Webster, B.S.	Conway
Jasper	D. A. Inabinet, B.S.	Ridgeland
Kershaw	R. R. Montgomery, B.S., Assoc.	Camden
Lancaster	D. R. Gowan, B.S.	Lancaster
Laurens	R. J. Bennett, M.S., Assoc.	Laurens
Laurens	H. L. Eason, B.S.	Laurens
Lee	L. S. Livingston, B.S.	Bishopville
Lexington	R. L. Boozer, M.S., Assoc.	Lexington
Lexington	R.A. Jameson, B.S.*	Lexington
Lexington	W. C. Jones, Jr., B.S.	Lexington
Marion	M. J. Carter, B.S., Assoc.	Marion
Marion	A. C. Altman, B.S.	Marion
Marlboro	R. C. Smith, B.S.	Bennettsville
Newberry	W. S. Walker, M.Ed., Assoc.	Newberry
Newberry	J. O. Donkle, B.S.	Newberry
Oconee	G. W. Littlejohn, B.S.	Walhalla
Orangeburg	Reuel McLeod, B.S.	Orangeburg
Orangeburg	M. L. Chason, Ed.D.	Orangeburg
Orangeburg	C. W. Ackerman, M.S., Assoc.	Orangeburg
Pickens	N. C. Anderson, B.S., Assoc.	Pickens
Pickens	F. M. Fleming, B.S., Assoc.	Pickens
Richland	G. E. Bell, B.S.	Columbia
Richland	R. H. Berly, B.S.	Columbia
Saluda	J. W. Riser, B.S.	Saluda
Spartanburg	Crayton McCown, B.S., Assoc.	Spartanburg
Spartanburg	B. W. Sherer, B.S.	Spartanburg
Spartanburg	G. W. Bowen, B.S.	Spartanburg
Sumter	R. D. McNair, B.S., Assoc.	Sumter
Sumter	T. B. Tillman, Jr., B.S., Assoc.	Sumter
Union	C. K. Palmer, B.S.	Union
Williamsburg	L. B. Harrington, B.S., Assoc.	Kingstree
Williamsburg	R. M. Johnston, B.S.	Kingstree
York	C. H. Fant, B.S., Assoc.	York
York	J. D. Williams, B.S., Assoc.	York

NEGRO AGRICULTURAL AGENTS

County	*Name*	*Post Office*
Aiken	T. A. Hammond, B.S.A.	Aiken
Anderson	G. W. Stewart, B.S.A.	Anderson
Bamberg	E. D. Dean, M.S.A.	Bamberg
Barnwell	R. V. Maloney, B.S.A.	Barnwell
Beaufort	P. T. Seabrook, M.S.	Beaufort
Berkeley	R. C. Bacote, B.S.A.	Moncks Corner
Berkeley	John Mott, Jr., B.S.— Asst. Negro Agric. Agent	Moncks Corner
Charleston	B. T. McIntosh, B.S.A.	Charleston
Cherokee	B. L. Cunningham, M.S.	Gaffney
Chester	M. M. Sitton, M.Ed.	Chester
Chesterfield	David B. Waymer, B.S.	Chesterfield
Clarendon	Hugene Gerald, M.S.	Manning
Colleton	J. J. Mitchell, B.S.A.	Walterboro
Darlington	R. C. Smith, Jr., B.S.A.	Darlington
Dorchester	Eugene Frederick, B.S.A.	St. George
Fairfield	D. G. Belton, Jr., B.S.A.	Winnsboro
Florence	H. S. Person, B.S.A.	Florence
Florence	Joseph Hill, B.S.A.— Asst. Negro Agric. Agent	Florence
Greenville	F. D. Garrett, B.S.A.	Greenville

* Assistant agent on leave.

County	*Name*	*Post Office*
Greenwood	E. M. Middleton, M.S.	Greenwood
Hampton	J. A. Spruill, B.S.	Estill
Horry	W. P. Johnson, B.S.A.	Conway
Kershaw	J. D. Marshall, B.S.A.	Camden
Lancaster	C. N. Wilson, B.S.A.	Lancaster
Laurens	Charlie Bronson, Jr., M.S.	Laurens
Marion	C. A. Brown, B.S.A.	Marion
Marlboro	Quincy Benbow, M.S.	Bennettsville
Newberry	B. J. Gill, B.S.A.	Newberry
Orangeburg	Q. J. Smith, M.S.A.	Orangeburg
Orangeburg	Leon Johnson, M.S.A.— Asst. Negro Agric. Agent	Orangeburg
Richland	I. E. McGraw, M.Ed.	Columbia
Spartanburg	R. N. Smith, B.S.A.	Spartanburg
Sumter	Arthur Sanders, B.S.A.	Sumter
Union	M. B. Jackson, B.S.A.	Union
Williamsburg	V. B. Thomas, B.S.A.	Kingstree
York	J. G. Bowman, B.S.A.— Negro Agric. Agent	York
Negro Agricultural Agent-at-Large	G. W. Dean, M.S.	Orangeburg

COUNTY HOME DEMONSTRATION AGENTS

County	*Name*	*Post Office*
Abbeville	Mildred S. Ezell, B.S.	Abbeville
Aiken	Alpha C. Jenkins, B.S.	Aiken
Allendale	Laura C. Johnson, B.S.	Allendale
Anderson	Patricia A. Holstein, B.S.	Anderson
Bamberg	Jessica D. Ulmer, B.S.	Bamberg
Barnwell	Annie Mae Stanfield, B.S.	Barnwell
Beaufort	Vivian C. Gibson, B.S.	Beaufort
Berkeley	Evangeline T. Thompson, B.S.	Moncks Corner
Calhoun	Joann S. Ray, B.S.	St. Matthews
Charleston	Lillian R. Goldberg, B.S.	Charleston
Cherokee	Claudella Burgess, B.S.	Gaffney
Chester	Anne E. Thomasson, B.S.	Chester
Chesterfield	Lillian D. Rivers, B.S.	Chesterfield
Clarendon	Mildred R. Crocker, B.S.	Manning
Colleton	Isobel Heaton, B.S.	Walterboro
Darlington	Sara E. Roper, B.S.	Darlington
Dillon	Lina Surls, B.S.	Dillon
Dorchester	Cora F. Fogle, B.S.	St. George
Edgefield	Dorothy Herlong, B.S.	Edgefield
Fairfield	Theresa Beekham, B.S.	Winnsboro
Florence	Eleanor M. Foster, B.S.	Florence
Georgetown	Mary B. Mixon, B.S.	Georgetown
Greenville	M. Myrtle Nesbitt, B.S.	Greenville
Greenwood	A. Louise McColl, B.S.	Greenwood
Hampton	Lucille Alsing, B.S.	Hampton
Horry	Evelyn I. Davis, B.S.	Conway
Jasper	Elizabeth B. Berry, B.S.	Ridgeland
Kershaw	Jacqueline S. Gift, B.S.	Camden
Lancaster	Lena E. Sturgis	Lancaster
Laurens	Sarah M. Taylor, B.S.	Laurens
Lee	B. Carolyn Meares, B.S.	Bishopville
Lexington	Margaret G. McFadden, B.S.	Lexington
McCormick	V. Hopkins Sharp, B.S.	McCormick
Marion	Sallie M. Smith, B.S.	Marion
Marlboro	L. Louise Heriot, M.Ed.	Bennettsville
Newberry	Mildred K. Holliday, B.S.	Newberry

County	*Name*	*Post Office*
Oconee	Hazle Wise, B.S.	Walhalla
Orangeburg	Huldah P. McKnight, B.S.	Orangeburg
Pickens	Sarah G. Cureton, B.S.	Pickens
Richland	Marguerite Summer, B.S.	Columbia
Saluda	M. Carolyn Chapman, B.S.	Saluda
Spartanburg	Nancy H. Williams, B.S.	Spartanburg
Sumter	Margaret Forkner, B.S.	Sumter
Union	Esther S. Senn, B.S.	Union
Williamsburg	Carrie C. Tomlinson, M.A.	Kingstree
York	Jennie M. Riddle, B.S.	York

ASSISTANT COUNTY HOME DEMONSTRATION AGENTS

County	*Name*	*Post Office*
Anderson	Connie R. Fowler, B.S.	Anderson
Anderson	Nancy D. Christopher, B.S.	Anderson
Berkeley	Juanita R. Arnold, B.S.	Moncks Corner
Chesterfield	Susanne M. Davis, B.S.	Chesterfield
Clarendon	Julia A. Sheppard, B.S.	Manning
Colleton	Carolyn J. Leitner, B.S.	Walterboro
Darlington	J. Lynette Miles, B.S.	Darlington
Dillon	Nancy Fay Farmer, B.S.	Dillon
Edgefield	Riley C. Langley, B.S.	Edgefield
Florence	Joyce C. Wannamaker, B.S.	Florence
Florence	Rosa T. Baker, B.S.	Florence
Greenville	Eugenia P. Ogden, B.S.	Greenville
Horry	Patricia M. Kizer, B.S.	Conway
Kershaw	Evelyn Smith, B.S.	Camden
Laurens	Judith Glover, B.S.	Laurens
Lexington	Doris G. Sease, B.S.	Lexington
Marion	Claire M. Baker, B.S.	Marion
Newberry	Martha A. Stewart, B.S.	Newberry
Oconee	Rebecca E. Gaines, B.S.	Walhalla
Pickens	Margie D. Freeman, B.S., Assoc.	Pickens
Richland	Dorothy Williams, B.S.	Columbia
Saluda	Doney C. Donkle, B.S.	Saluda
Spartanburg	Sally C. Heffner, B.A.	Spartanburg
Sumter	Carolyn Rikard, B.S.	Sumter
York	Eva Simpson, B.S.	York

NEGRO HOME DEMONSTRATION AGENTS

County	*Name*	*Post Office*
Aiken	Lonieal L. Harrison, B.S.	Aiken
Allendale	Annie Mae Butler, B.S.	Allendale
Anderson	Cynthia Williford, B.S.	Anderson
Bamberg	Lillie J. Limehouse, B.S.	Bamberg
Barnwell	Edna K. DuPree, B.S.	Barnwell
Beaufort	Mabel P. Washington, B.S.	Beaufort
Berkeley	Altamese Pough, B.S.	Moncks Corner
Charleston	Albertha V. DeVeaux, L.I.	Charleston
Cherokee	Leota Sherard, B.S.	Gaffney
Chesterfield	Sara R. McDuffie, B.S.	Chesterfield
Clarendon	Queenie S. Heath, B.S.	Manning
Colleton	Gussie M. Goudlock, B.S.	Walterboro
Darlington	Wilhelmina P. Johnson, B.S.	Darlington
Dorchester	Bernice H. Brown, B.S.	St. George
Fairfield	Coy Smith, B.S.	Winnsboro
Florence	Hattie P. Lowery, B.S.	Florence
Georgetown	Janie Lancaster, M.Ed.	Georgetown

County	*Name*	*Post Office*
Greenville	Willie B. Simpson, M.S.	Greenville
Greenwood	Madge W. Hardy, B.S.	Greenwood
Hampton	Leona B. Mungin, B.S.	Estill
Horry	Marian Watson, B.S.	Conway
Kershaw	Adell W. Watson, B.S.	Camden
Lancaster	Jessie L. Jones, B.S.	Lancaster
Newberry	Lillian G. Saunders, B.S.	Newberry
Orangeburg	Rosa R. Odom, B.S.	Orangeburg
Richland	Gertrude H. Sanders, B.S.	Columbia
Spartanburg	Cammie F. Clagett, B.S.	Spartanburg
Sumter	Goldie E. McDuffie, M.S.	Sumter
Union	Laura M. Whitney, B.S.	Union
Williamsburg	Eva G. Lawrence, B.S.	Salters
York	Johnnie G. Sloan, B.S.	York

ASSISTANT NEGRO HOME DEMONSTRATION AGENTS

County	*Name*	*Post Office*
Florence	Shirley H. McDonald, B.S.	Florence

LIVESTOCK-POULTRY HEALTH DEPARTMENT
COLUMBIA, SOUTH CAROLINA

Director and State Veterinarian

R. W. Carter, D.V.M. .... Columbia

State Assistant Director

C. L. Vickers, D.V.M. .... Columbia

Federal Assistant Director

Ross W. Gerding, B.Sc., D.V.M. .... Columbia

Assistant State Veterinarians

O. E. Baker, D.V.M. .... Columbia
Bert W. Bierer, V.M.D. .... Columbia
W. R. Chastain, D.V.M. .... Columbia
Robert M. Edwards, Jr., D.V.M. .... Greenwood
S. L. Moore, D.V.M. .... Clemson
S. H. Powell, D.V.M. .... Columbia
Jack Scott, D.V.M. .... Hemingway
John B. Thomas, D.V.M. .... Columbia
Harold D. Valentine, V.M.D. .... Columbia

State Laboratory Assistants

J. Carlos Fortner .... Columbia
Peggy L. Kelly .... Columbia

State Livestock Law Enforcement Officers

James C. Epps, Jr., B.Sc. .... Columbia
Charles L. Fleming, B.Sc. .... Columbia
Charles E. Grant, B.Sc. .... Columbia

State Livestock Inspectors

Jake P. Ginn, Jr., B.Sc. .... Varnville
DeWitt W. Maxey .... Spartanburg
P. M. Snowden .... Hemingway

Federal Veterinary Livestock Inspectors

G. A. Baker, D.V.M. .... Columbia
M. L. Gunnels, Jr., D.V.M. .... Walterboro

Wm. S. Jackson, D.V.M. . . . . . Orangeburg
H. A. Jordon, D.V.M. . . . . . Timmonsville
J. M. Love, D.V.M. . . . . . Chester
Herbert Racoff, D.V.M., M.S. . . . . . Columbia
K. N. Wiser, D.V.M. . . . . . Greer

Federal Serologist

Emily G. Lowe, B.Sc. . . . . . Columbia

Federal Laboratory Assistant

Evelyn M. Goff . . . . . Columbia

Federal Livestock Inspectors

J. W. Crowder, Jr. . . . . . Rock Hill
Thomas R. Davis . . . . . Clinton
J. L. Morris . . . . . Lake City
Bernard B. Oswald . . . . . Columbia
Jas. A. Ritter, Jr. . . . . . Walterboro
John G. Smith, B.Sc. . . . . . Orangeburg
Roy D. Wingard, B.Sc. . . . . . Columbia

State-Federal Accredited Veterinarians

E. C. Anderson, D.V.M. . . . . . Estill
Henry M. Anderson, D.V.M. . . . . . Florence
R. E. Atkinson, D.V.M. . . . . . Kingstree
N. J. Ayers, D.V.M. . . . . . Greer
O. E. Ballenger, D.V.M. . . . . . Easley
W. A. Barnette, B.Sc., D.V.M. . . . . . Greenwood
W. R. Beasley, D.V.M. . . . . . Batesburg
R. W. Beaty, Jr., D.V.M. . . . . . Sumter
M. R. Blackstock, D.V.M. . . . . . Spartanburg
James E. Brehm, D.V.M. . . . . . Surfside
David L. Brown, Jr., D.V.M. . . . . . Florence
T. E. Brown, D.V.M. . . . . . Spartanburg
J. E. Burch, D.V.M. . . . . . Lake City
Stuart E. Burnett, D.V.M. . . . . . Sumter
T. L. Burriss, D.V.M. . . . . . Anderson
W. M. Burriss, D.V.M. . . . . . Anderson
W. T. Carll, D.V.M. . . . . . Columbia
W. S. Carr, D.V.M. . . . . . Aiken
F. P. Caughman, B.Sc., D.V.M. . . . . . Columbia
F. P. Caughman, Jr., D.V.M. . . . . . Columbia
C. W. Cofer, D.V.M. . . . . . Columbia
C. W. Colquitt, D.V.M. . . . . . Barnwell
I. R. Cooper, Sr., D.V.M. . . . . . Allendale
W. C. Cottingham, D.V.M. . . . . . Trio
M. D. Culpepper, D.V.M. . . . . . Chester
J. N. Dalton, D.V.M. . . . . . Bamberg
J. W. Dantzler, D.V.M. . . . . . Orangeburg
J. T. Dickson, D.V.M. . . . . . Rock Hill
C. M. Dotson, D.V.M. . . . . . Lancaster
F. E. Ducey, Jr., D.V.M. . . . . . Ridgeland
Will T. Dunn, D.V.M. . . . . . Greenville
H. P. Dyches, D.V.M. . . . . . Aiken
Raymond C. Elam, D.V.M. . . . . . Columbia
Wm. S. Fairey, D.V.M. . . . . . Orangeburg
J. C. Frazier, D.V.M. . . . . . Greenville
H. L. Frieze, D.V.M. . . . . . Gaffney
T. F. Fussell, D.V.M. . . . . . Spartanburg
S. P. Galphin, D.V.M. . . . . . Holly Hill
J. G. Gibson, D.V.M. . . . . . Florence
W. H. Giddens, D.V.M. . . . . . Saluda
W. H. Gilmore, D.V.M. . . . . . Columbia

D. E. Goodman, D.V.M. .... Turbeville
L. H. Hardy, D.V.M. .... Camden
C. C. Harmon, D.V.M. .... Columbia
J. W. Hawk, D.V.M. .... North Augusta
Carlos Helms, D.V.M. .... Crescent Beach
Wm. S. Hicks, D.V.M. .... Columbia
C. R. Hinson, D.V.M. .... Bennettsville
R. R. Hirshberg, D.V.M. .... Sumter
T. P. Hoffmeyer, D.V.M. .... Florence
L. J. Hogan, D.V.M. .... Charleston
E. G. Horres, D.V.M. .... Charleston
E. B. Hubster, D.V.M. .... Walterboro
James F. Hughey, D.V.M. .... Spartanburg
Kenneth L. Huggins, D.V.M. .... Marion
James W. Hutto, D.V.M. .... Holly Hill
C. V. Jameson, D.V.M. .... Anderson
Preston B. Jones, D.V.M. .... Anderson
Herbert A. Justus, D.V.M. .... Spartanburg
S. J. Kellett, Jr., D.V.M. .... Seneca
R. H. Kemmerlin, D.V.M. .... Charleston
H. B. Kinard, Jr., D.V.M. .... Greenwood
H. W. Kinard, D.V.M. .... Bamberg
F. E. Kitchen, D.V.M. .... Greenwood
G. R. Kitchen, D.V.M. .... Sumter
T. E. Lanham, D.V.M. .... Edgefield
W. R. Latta, D.V.M. .... Orangeburg
G. J. Lawhon, Sr., B.Sc., D.V.M. .... Hartsville
G. J. Lawhon, Jr., D.V.M. .... Hartsville
J. S. Lide, D.V.M. .... Newberry
H. M. Lightsey, Jr., D.V.M. .... Columbia
C. B. Lowman, D.V.M. .... Newberry
C. J. Maddox, D.V.M. .... Sumter
W. K. Magill, B.Sc., D.V.M. .... Chester
W. H. Matthews, D.V.M. .... Rock Hill
R. A. Mays, B.Sc., D.V.M. .... Columbia
W. D. Mayfield, D.V.M. .... Laurens
J. W. Miller, D.V.M. .... Winnsboro
A. S. Moore, D.V.M. .... Walterboro
C. E. H. Moore, D.V.M. .... Walterboro
J. H. Moore, D.V.M. .... Charleston
Earl A. McDowell, D.V.M. .... Greenville
G. A. McElmurray, Jr., D.V.M. .... Abbeville
Carl D. McElveen, D.V.M. .... Columbia
B. K. McInnes, M.D., D.V.M. .... Charleston
B. C. McLean, V.M.D. .... Aiken
S. R. McMaster, D.V.M. .... Rock Hill
E. E. Nissen, D.V.M. .... Marion
D. E. Orr, D.V.M. .... Clinton
J. M. Paget, D.V.M. .... Greer
A. B. Pittman, D.V.M. .... Springfield
Neil D. Porter, D.V.M. .... West Columbia
Bruce G. Pratt, D.V.M. .... Beaufort
Petro Pshyk, D.V.M. .... Summerville
G. D. Radford, D.V.M. .... Beaufort
Paul E. Ramsey, D.V.M. .... Spartanburg
W. F. Rawlinson, D.V.M. .... Manning
R. S. Reese, D.V.M. .... Spartanburg
T. M. Rhodes, D.V.M. .... Charleston Heights
E. A. Richardson, D.V.M. .... Seneca
H. E. Riddle, D.V.M. .... Greenville
L. D. Rodgers, D.V.M. .... Greenwood
R. R. Salley, D.V.M. .... Orangeburg

W. Everette Salley, D.V.M. .... Orangeburg
J. W. Sample, Jr., D.V.M. .... Charleston Heights
W. H. Shirer, D.V.M. .... Georgetown
W. J. Shirley, Jr., D.V.M. .... Pendleton
F. L. Shuler, D.V.M. .... St. George
J. O. Shuler, D.V.M. .... Mt. Pleasant
G. K. Smith, D.V.M. .... Spartanburg
G. M. Smith, D.V.M. .... Greenville
J. S. Smith, D.V.M. .... Conway
D. H. Spearman, D.V.M. .... Greenville
J. D. Stith, D.V.M. .... Hartsville
A. Fred Stringer, Jr., D.V.M. .... Anderson
Otto M. Strock, D.V.M. .... Charleston
E. D. Stuart, D.V.M. .... Greenville
Pat Suber, D.V.M. .... Columbia
H. L. Sutherland, D.V.M. .... Union
Robert C. Thrasher, D.V.M. .... Greenville
E. R. Van De Grift, Jr., D.V.M. .... Columbia
Pierre Wait, D.V.M. .... Myrtle Beach
Billy Nance Weeks, D.V.M. .... Aiken
Brunson M. Westbury, D.V.M. .... Summerville
U. E. Whatley, D.V.M. .... Dillon
W. E. White, D.V.M. .... Bennettsville
J. M. Williams, D.V.M. .... Moncks Corner
R. L. Willis, D.V.M. .... Charleston
Don M. Witherspoon, D.V.M. .... Myrtle Beach
S. M. Witherspoon, B.Sc., D.V.M. .... Marion
R. E. Wright, D.V.M. .... Greer
L. E. Young, D.V.M. .... Columbia

THE SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION

With a nucleus of research planning at Clemson, the South Carolina Agricultural Experiment Station has 16 departments and 2 special units located here. Each department conducts specialized research in its own field, and its findings are made known to the public through special publications and news releases. Six branch experiment stations operate as separate units in different sections of the State, under the direction and organization of the Clemson Station.

More effective agricultural production and marketing through research is the goal of the Station. The farmer's work can be made easier, cheaper, and more profitable by research to learn what effect current farmer practice has on the financial return he gets. Newer methods not yet put into use by farmers are also studied with appropriate release of findings.

Opportunity to work and gain experience is offered to a limited number of students by some departments where research is conducted. Laboratories are open to inspection by students, farmers, and others. The public is invited to write to the Station Director to request information about any specific problem encountered in agriculture. A full report of work and expenditures of the S. C.

Agricultural Experiment Station is published annually and may be obtained free of charge. Other publications of the Station are also free and will be sent upon request.

Research at the Station embraces problems peculiar to the Southeast as well as to the State, and results receive nationwide publication through USDA releases. The Station's work is financed by State appropriation, Federal appropriation, grants from commercial companies and foundations, and returns from products grown for research.

FERTILIZER INSPECTION AND ANALYSIS

The South Carolina Fertilizer Law, last revised and effective July 1, 1954, is administered by the Fertilizer Inspection and Analysis Department, School of Agriculture, Clemson, South Carolina. The law is designed to protect amply the purchasers of commercial fertilizer, manufacturers and dealers in fertilizers. The secretary of the Board of Control, who is also the director, along with 10 part-time fertilizer inspectors collects annually approximately 6,000 fertilizer samples and 1,500 insecticide samples. In addition to procuring official samples for analysis to see that the guarantees are met, the department inspects for proper bag printing and weights of fertilizers and insecticides. It also makes analyses of insecticides, unexploited sources of water, minerals, and parts of human bodies when poisons are suspected as the cause of death. Normally, the percentage of deficient fertilizer samples ranges from 4 to 6 per cent, while the refunds collected on account of the deficiencies amount to $14,000 to $19,000 annually. In the case of a deficiency, the fertilizer manufacturer is penalized 3 times the value of the shortage in nitrogen and 4 times the value of the shortage for phosphoric acid and potash. All fertilizers are required to be registered with the department prior to compounding or offering same for sale. Only fertilizers containing 20 units of plant food and conforming to the approved ratios and minimum analysis grades are permitted to be registered and sold in South Carolina.

THE CLEMSON COLLEGE EXTENSION SERVICE

The Clemson College Extension Service is a branch of Clemson College and is a cooperative service supported by the counties, the State, and the Federal government. The Extension Service is responsible for conducting with all people of South Carolina the cooperative educational and demonstration programs in agriculture and home economics of Clemson College and the United States Department of Agriculture.

The function of the Extension Service is to make available to farmers, homemakers, and rural boys and girls, through on-the-farm service, demonstrations, meetings, newspaper articles, publications, radio and television broadcasts, and other suitable methods, the results of research and successful farm and home experience. It also assists, through interpretation, practical demonstrations and otherwise, in applying and using this information to improve their farms, farm homes, and communities, to the end that they may build a safe, sound, and progressive rural life and agriculture.

The annual plan of agricultural and home economics extension work is developed and carried out with close cooperation between the Extension Service and the farm and home leadership of the State, the counties, and the rural communities and neighborhoods.

The Staff of Agricultural Extension Workers includes the director, an associate director, three district supervisory agents, an administrative assistant, an assistant in farm and home development, 46 county agents—one in each county, 24 associate county agents, 54 assistant county agents, and 51 agricultural specialists in agricultural economics, agricultural engineering, agronomy, boys' 4-H club work, dairying, crop insects and diseases, cotton ginning, forestry, horticulture, livestock, marketing, poultry and turkeys, publications, rural development, soil conservation, and visual instruction.

The Extension Home Demonstration Staff includes a state home demonstration agent, three associate district supervisory agents, 46 county home demonstration agents—one in each county, 3 associate home demonstration agents, 30 assistant home demonstration agents, and 9 specialists in clothing, family life, food production and conservation, girls' 4-H club work, home management, marketing, and nutrition.

Negro Extension Workers include a state leader and two Negro 4-H club agents, a state leader for Negro home demonstration work, and a Negro agricultural agent-at-large, who have headquarters at the State College at Orangeburg. Negro county extension workers include 33 Negro agricultural agents, 3 assistant Negro agricultural agents, 33 Negro home demonstration agents, and 1 assistant Negro home demonstration agent.

LIVESTOCK-POULTRY HEALTH DEPARTMENT

The Clemson College Livestock-Poultry Health Department is consolidated under one Director with the United States Department of Agriculture, Agricultural Research Service, Animal Disease Eradication Division, and is known as the State-Federal Livestock

Disease Eradication Program. This department is charged with the control and eradication of contagious, infectious and communicable diseases of livestock and poultry and with the intra-state and interstate movement of livestock and poultry. When requested, investigations are made, consultations are held, and assistance in diagnosis is rendered. This department further organizes, develops, and carries on educational programs for the control and eradication of diseases. Quarantine measures are employed to prevent, as far as possible, the introduction or spread of livestock diseases into this state.

The Clemson Livestock Laboratory, a fully equipped modern laboratory, staffed with highly trained personnel, is maintained 14 miles northeast of Columbia on U. S. Highway No. 1, at the site of the Sandhill Experiment Station. This laboratory is prepared to assist veterinarians and owners of livestock and poultry in making post-mortem laboratory examinations and bacteriological and pathological studies to aid in the diagnosis of diseases. If necessary, sufficient equipment can be sent into the field to diagnose and control disease on the spot.

The administrative office is located in the above building. Adequate records and identification of livestock are kept. A staff of veterinarians works from the Columbia office, and field veterinarians are located in various sections of the State. In addition to the regular field force of veterinarians directly connected with the Columbia office, practicing veterinarians are commissioned as State-Federal Accredited Veterinarians and assist in the eradication of infectious diseases of livestock. At present there are 132 veterinarians so commissioned and their locations are such that the Clemson College Livestock-Poultry Health Department is in a position to control and eradicate disease promptly and completely in all sections of the State.

This department is required by legislative enactment and supported by legislative appropriation.

THE SOUTH CAROLINA STATE CROP PEST COMMISSION

The act creating the State Crop Pest Commission was passed by the legislature in 1912. According to the act, five members of the Board of Trustees of Clemson College shall compose the Commission.

The purpose of the Commission is to prevent, as far as possible, the introduction into South Carolina of injurious plant pests and to limit the spread of those already within the State. The Commission is also charged with the enforcement of the Bee Disease Act and the South Carolina Economic Poison Law.

The work is performed by the promulgation and enforcement of certain rules and regulations which in the judgment of the Commission are necessary to protect the agricultural interest of South Carolina. The enforcement of the regulations is the responsibility of the State Entomologist, State Plant Pathologist, and their agents.

THE ENGINEERING EXPERIMENT STATION

The Engineering Experiment Station of the Clemson Agricultural College was established by the Board of Trustees in July 1924. Its purpose is to coordinate and stimulate the research activities in the School of Engineering. These activities include the contribution of new knowledge in engineering science by prosecuting a vigorous program of basic research, the conduct of programs of developmental and applied research as a service to the industries of the State, and the determination of uses for the material resources of the State and thereby to encourage the growth of new industries.

The active research staff consists essentially of the faculty members of the School of Engineering and other divisions of the College. The laboratories of the several departments, as well as other special purpose space, are available to the Station in its investigations.

Research is the foundation for progress in a technological society. The well-equipped physical facilities and the thoroughly competent professional staff available to the Station constitute extremely valuable resources for continuing and expanding this research effort.

TEACHER EDUCATION

Agricultural Education. The members of the staff of Agricultural Education visit all beginning teachers for the purpose of assisting them on the job and also for the purpose of collecting information which may prove helpful in improving the work of teacher education at the College. In addition, conferences of teachers are held and consulting services made available in the interest of the professional growth of agricultural teachers, the rendering of service to agricultural communities, and the development of leadership among agricultural youth through the program of the Future Farmers of America.

Information concerning any phase of the in-service education activities in Agricultural Education may be secured by contacting the Head, Department of Agricultural Education, Clemson College.

Trades and Industrial Education. The College, in cooperation with the State Department of Education, is glad to assist those who teach vocational subjects in day trade schools and evening trade and industrial classes by supplying a trained man to assist in the work of organizing classes, organizing courses of study, making plans for teaching evening classes, and actually teaching vocational subjects. Requests for information regarding this service should be addressed to Mr. L. R. Booker, State Teacher Trainer in Industrial Education, Clemson, South Carolina.

SHORT COURSES AND CONFERENCES

The facilities of the College are made available for special meetings, such as farm groups, rural ministers, religious organizations, and scientific societies; and arrangements are made for special short courses in poultry, beekeeping, food preservation, cotton classing, dairy science, water supply, and sanitation, etc. Such activities, undertaken in the interest of the general welfare, are encouraged by the College.

PART VII

Student Register

1961-1962

GRADUATES OF 1961

BACHELORS' DEGREES CONFERRED JANUARY 28, 1961

SCHOOL OF AGRICULTURE

BACHELOR OF SCIENCE DEGREE

Agriculture—Agricultural Economics Major

Barney O'Neal Page, Dillon

Agriculture—Agronomy Major

Frank Walter Crouch, Jr. . . . . Batesburg
Charles Simpson McLaurin III . . . . McColl

Agriculture—Animal Husbandry Major

Carl Elford Baldwin, Jr. . . . . . . Simpsonville
James Wilbur Bragg . . . . Columbia
Harry Dean Goforth . . . . Gaffney
Alfredo Marcelo Latour . . . . . . Havana, Cuba
Paul Monroe Warren, Williams

Agriculture—Dairy Major

John Kenneth Bailes, Union

Agriculture—Entomology Major

Timothy Marshall Drake, Campobello

Agriculture—Horticulture Major

Waymon DeWitt Collins . . . . . . Campobello
Ronald Elmer Cowart . . . . Columbia

Agricultural Education

Lloyd Houston Blanton . . . . Nichols
Olin Francis Counts, Jr. . . . . Springfield
Oman Eugene Page . . . . Nichols
Oliver Rudolph Page . . . . Dillon

SCHOOL OF ARCHITECTURE

BACHELOR OF ARCHITECTURE DEGREE

Charles Cecil Carson . . . . . Kingsport, Tenn.
Robert Frank Dickinson . . Miami Beach, Fla.
Donald Edwin Howden . . . Kingsport, Tenn.
John Oliver Ridgill . . . . Manning
Fred George Sigg . . . . Clemson
William Humber Wysong, Jr. . . . . Florence

SCHOOL OF ARTS AND SCIENCES

BACHELOR OF SCIENCE DEGREE

Arts and Sciences

Rufus Franklin Axmann . . . . Anderson
William Kenneth Eaton, Jr. . . . . . . Florence
Risher Levon Stanley . . . . Varnville
Felix Hugo Toney . . . . Greenwood
Robert Rambo Williams . . . . Rock Hill
Junius Paul Wright, Jr. . . . . Greenville

Chemistry

Ross Davis Rothell, Jr. . . . . Westminster
James Emory Howard Smith . . . . . . Clemson

Education

Robert Glenn Blanton * . . . Ellenboro, N. C.
Cecil James Burnette, Jr. . . . . . . Bristol, Va.
Clyde Durham Crook . . . . St. George
Jackie Leonard Crook . . . . St. George
Wade Ronald Crow . . . . McColl
William Harrell Foster, Jr. . . . . Westminster
Johnnie McLaurin Goff . . . . Saluda
James Bright Magill . . . . Concord, N. C.
Robert Paul Snyder, Yardley, Pa.

Industrial Education

William Getter Rush, Jr., Union

Industrial Management

Marion Billie Beason . . . Forest City, N. C.
William Sidney Boswell . . . . Newnan, Ga.
Robert Hendricks Childress . . . Easley
Charles Ernest Christmas, Morristown, Tenn.
Reynard Alton Corley . . . North Augusta
Frank William Darracott III . . Johnston
Wade Van-Buren Fair . . . . . Gastonia, N. C.
Ralph Lee Hembree . . . . Anderson
Thomas Hoyt Hill . . . . Belton
Robert Eugene Lilienthal . . . . . . Charleston
William David McPherson . . . . . Greenville
Daniel Wayne Martin . . . . . North Charleston
Jon Robert Mattison . . . . Clemson
William Franklin Moore . . . . Fort Mill
John Harris Roberts . . . . Ninety Six
William Thomas Smith . . . . Clinton

* With honor.

Theron Carl Stokes . . . . . Greer
Bobby Wilson Teague . . . . . Franklin, N. C.
Robert Burgess Tucker . . . . . Lake City
Guy Livingston Watson III . . . . . Laurens
Patrick Kelly White . . . . . Dillon
John Benson Wier, Jr. . . . . . Augusta, Ga.
Richard Louis Wortman, Shelby, N. C.

Physics

Henry Prentiss Ward, Jr., Georgetown

Pre-Medicine

John Williamson Brown * . . . . . Newberry
Charles Edward Corley III . . . . . Lexington
George Myers McCown III, Florence

SCHOOL OF ENGINEERING

Bachelor of Science Degree

Agricultural Engineering

(Agricultural Engineering is jointly administered by the School of Agriculture and the School of Engineering)

John William Nutt . . . . . Clemson
Robert Ernest Thompson . . . . . Abbeville
Curtis Elliott Wallace, Gray Court

Ceramic Engineering

Edwin Cleveland Dacus, Jr. . . . . . Greenville
Charles Edward Davies . . . . . Honea Path
William Weston Edwards, Jr., Saluda

Chemical Engineering

James Edward Holsenback, Warrenville

Civil Engineering

Edgar James Duckworth, Jr., Asheville, N. C.
Edward Darrell Herndon . . . . . Gaffney
Gordon Burris Holmes, Jr. . . . . . Aiken
Jesse Clark Hughes . . . . . Murrells Inlet
Henry Lehmann Johnsen, Perth Amboy, N. J.
Leonard LeGrande Potter II, Littlestown, Pa.
Henry Wordsworth Rimmer, Jr. . . . Clemson
Edward Dilno Russell . . . . . Florence
William McFarland Scurry . . . . . Chappells
Ernest Earl Sligh . . . . . Norway

Electrical Engineering

Marvin Russell Cobb . . . . . Westminster
Clarence Edward Dalton . . . . . Greenville
Erasmus Evans . . . . . Manning
Ralph Lamar Hair . . . . . Wedgefield
William Franklin Hawkins . . . . . Taylors
Robert Neil Hodgens . . . . . Taylors
James Silas Holden, Jr. . . . . . Clemson
Bennie Frank Johnson . . . . . Clinton
William Thomas Lusk . . . . . Easley
John Henry McMillan, Jr. . . . . . Branchville
Donald Lee Mills . . . . . Greensburg, Pa.
William Burrell Nunnery . . . . . Rock Hill
William Crawford Sinclair . . . . . Lancaster
George Howard Usry III . . . . . Waycross, Ga.
James Haskell Vaughn, Jr. . . . . . Gaffney
Douglas Woodrow Wilson, Kings Mtn., N. C.

Industrial Engineering

Robert Jaudon Bragg . . Port Wentworth, Ga.
Harry Lee Eubanks . . . . . Spartanburg

Mechanical Engineering

Richard Emerson Buie . . . . . La Plata, Md.
Russell Edwin Davis, Jr. . . . . Pawleys Island
William Thomas Fort, Jr. . . . . . Sumter
Carlos Payton Garner . . . . . Greenville
Frank Saxon Howard . . . . . North Augusta
Gary Howard Orcutt . . . . . Florence
William Lockhart Phillips * . . Lakeland, Fla.
Rufus Billy Rogers . . . . . Cayce
William Thomas Sanders . . . . . Cordova
Dan Parks Shannon . . . . . Gastonia, N. C.
Donald Keith Watson . . . . . Greenville
Henry Edward Watson . . . . . Calhoun Falls
Joel Anthony Yarboro, Clemson

SCHOOL OF TEXTILES

Bachelor of Science Degree

Textile Chemistry

Guillermo Bito Montemayor, Quezon City, P. I.

Textile Management

Robert Chalmers Aiken, Jr. . . . . . Columbia
John Edward Burley, Jr. . . . Charlotte, N. C.
William Charles Couch . . . . . Lowrys
John Gordon Ferguson, Jr. . . . . . York
Frank Johnson, Jr. . . . . . Belton
Alonzo Franklin McGuire, Laurinburg, N. C.
William Louis Patrick . . . . . Charleston
William Frank Phillips . . . . . Abbeville
Ronald Koger Sanders . . . . . Jonesville
Ralph Stewart Templeton, Jr. . . . . Owings

* With honor.

Textile Manufacturing

Henry Vaud Brackett. . . . . Clemson
William Thomas Hazlewood. . . . . Pelzer
Edward Fant Durham, Jr. . . . . . . Blackstock
Thomas LaFayette Rogers . . . . . Williamston
Claude Wellington Smith, Jr., Union

MASTERS' DEGREES CONFERRED JANUARY 28, 1961

SCHOOL OF AGRICULTURE

Master of Science Degree

Agricultural Economics

Adger Bowman Carroll . . . . Westminster
Donald Cobb Henderson. . Mooreland, Okla.

Animal Husbandry

Joe Ralph Ables . . . . Westminster
William Arnold Case. . Lake Toxaway, N. C.

Bacteriology

James Harron Rampey, Jr., Greenville

Entomology

Wesley Ray McCaskill . . . . . Pinebluff, N. C.
William John Schroeder. . . . . Clemson

Horticulture

James Henry Crawford, Sr. . . . . Clemson
Harold Brewer Thornhill. . . Russellville, Ala.

SCHOOL OF ARTS AND SCIENCES

Master of Science Degree

Chemistry

Randolph Bruce Huff . . . . Clemson
Oliver Larry Hunt. . . . . Clemson
Charles Henry Tripp, Jr., Piedmont

Nuclear Science

Perry Sprawls, Jr., Williston

Master of Education Degree

Ottie Ward Arrington . . . . Clemson
Mary Royall Richardson . . . . Pendleton
Helen Tremain Farrar . . . . Seneca
Ruth Butts Tomlin . . . . Walhalla

SCHOOL OF ENGINEERING

Master of Science Degree

Agricultural Engineering

(Agricultural Engineering is jointly administered by the School of Agriculture and the School of Engineering)

Ivan Wayne Kirk . . . . Groom, Texas
Farrin Scott Wright. . . . . Grover, N. C.

Electrical Engineering

John William McCombs . . . . Greenwood
Pete Nick Marinos . . . . Greenville

Mechanical Engineering

Arvid Allen Anderson . . . Clemson
Eugene DuBose Blakeney III . . . Charleston
Philip Madison Hamilton, Jr., Clemson

SCHOOL OF TEXTILES

Master of Science Degree

Textile Chemistry

Jack Arthur Lynch . . . . Gray Court
John Dean Turner . . . . Inman

BACHELORS' DEGREES CONFERRED JUNE 4, 1961

SCHOOL OF AGRICULTURE

Bachelor of Science Degree

Agriculture—Agricultural Economics Major

Daniel James Buckner . . . . Chesnee
Carl Marvin Lewis, Jr. . . Gastonia, N. C.
Larry Earl Snipes, Marion

Agriculture—Agronomy Major

James Long Brodie . . . . Columbia
Bobby Ray Gulledge . . . . Mt. Croghan
Oliver Fredrick Heath, Jr. . . . . Aiken
Thomas Lenair Hucks . . . . Galivants Ferry
Jose Edgar Lopez, San Salvador, El Salvador
Robert Pitts Rogers . . . . Blackville

Agriculture—Animal Husbandry Major

John Charles Burress . . . . Anderson
Robert Lee Hunnicutt . . . . . . Hartwell, Ga.
Marion Elbert Page, Sellers

Agriculture—Dairy Major

Claude Wayne Boone . . . . Saluda
Ralph Jerome Johnson . . . . Alcolu

Agriculture—Entomology Major

Maxcy Pearle Nolan, Jr. . . . . Marion
Henry Hardee Vardell . . . . Summerville
James Bruce Wallace, Cades

Agriculture—Forestry Major

Ned Marshall Albright . . . . Rock Hill
John Robert Bradham . . . . Conway
Robert Louis Doyon . . . . Sumter
John Alexander DuRant . . . . Lynchburg
William Seay Goodman . . . . Clemson
Little Hodge Harmon . . . . Newberry
William Brearley McCown III . . . Darlington
Neil Alexander McLeod, Jr. . . . . Latta
Joseph Douglas Mills * . . . . Blackstock
Thomas LaFon Norton . . . . Dillon
Lindsay Brogaw Pierce, Jr. . . . . . Kingstree
Freddie Lucius Player, Jr. . . . . . Greeleyville
Larry Donald Reamer . . . . Clemson
Albert Philip Richardson III . . . . . . Columbia
James Hugh Ryan, Jr.* . . . . Sumter
Michael Gramling Salley, Jr. . . . Orangeburg
Tony Lumpkin Shank, Mullins

Agriculture—Horticulture Major

Jere Alonzo Brittain † . . . Horse Shoe, N. C.
Henry Rogers Cobb . . . . Hodges
Paul Alexander Cook, Jr. . . . . . . Fort Mill
Donald Ralph Davis . . . . Inman
Landon Carl Miller, Spartanburg

Agricultural Education

John Riley Clement . . . . Inman
William Duke Hucks . . . . . Galivants Ferry
Joseph Hugh Knight . . . . Bowman
Ray Carlton McCutcheon . . . . Lake City
John Sharpe McLaurin . . . . Clio
James Marion White * . . . . . Timmonsville

SCHOOL OF ARCHITECTURE

Bachelor of Architecture Degree

Donald James Benz . . . . . . Kenmore, N. Y.
William Klugh Connor, Jr. . . . . McCormick
William Thomas Davis . . . . Clinton
Harry Lee Martin . . . . Clemson
Howard Marvin Moormann . . . . . . Greenville
Gilbert Edward Parker . . . . Sumter
John Montgomery Preston * . . . . . Columbia
Ervin Ray Proctor . . . . Pendleton
Rodney Ames Westbury . . . . . . Charleston
Gene Cameron Wilkes . . . . Clinton

SCHOOL OF ARTS AND SCIENCES

Bachelor of Science Degree

Applied Mathematics

William David Ergle . . . . Spartanburg
Paul Malcolm McTeer . . . . Hartsville
Lucius Kennedy Montgomery, Jr.,* Kingstree
John Walter Sherard . . . . . . Calhoun Falls

Arts and Sciences

Derwood Lorraine Aydlette, Jr. . . Charleston
Paul Edward Bowie III . . . . Liberty
Louis Phillip Christman II . . North Augusta
William Mills Cooper . . . . Clemson
James Wise Culclasure . . . . . . St. Matthews
Ann Daniel . . . . Seneca
William Oscar Edmunds III . . . Spartanburg
Jan Gordon Elliott . . . . Capeville, Va.

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* With honor.
† With high honor.

Thomas Jackson Etheredge III...... North
James Ira Few, Jr.......Mooresville, N. C.
Joshua LaRoche Garvin, Jr.*..Yonges Island
Ronald Bennett Hall...........Pendleton
Ann Sullivan Haskell ‡..........Clemson
William Thomas Hopkins.......Pendleton
William Philip Kennedy.........Manning
Orr Michael Ledford...........Greenville
Angus Walker McGregor.........Hopkins
Charles Vincent Pasqualini, Jr.—
Havre de Grace, Md.
Glenn Walter Shample....McKeesport, Pa.
Rosalind Wyman Shealy.........Seneca
Kenneth William Smith †........Walhalla
Joseph DuRant Thompson, Jr.....Manning
Francis Edward Toledano, Jr....Greenville
Robert Manning Turner........Greenville
John Richard Vaughn, Jr.*...Fountain Inn
James Emmett Youngblood, Jr.‡..Columbia
Emil Zager, Jr...........McKeesport, Pa.

Chemistry

Karl Marion Counts............ Mullins
Thomas Virgil Derrick, Jr........Walhalla
James Victor Hartzog *........Reevesville
Jerome Courtney Nelson.......Greenville
James Brogdon Nichols...........Sumter
Richard Raymond Rettew.......Greenville
Emil Edwin Steed, Jackson

Education

Margaret Fowler Adams †.......Anderson
William Joseph Bonzulak....Dumont, N. J.
Donald Keith Carver.......Elkins, W. Va.
Carolyn Willis Creel..........Chesterfield
Betty Brown DeWitt...........Lake City
David Chester Lynn.....Fairless Hills, Pa.
Joseph Thomas Norman..........Clemson
Guy Herbert Quesenberry.....Radford, Va.
William Loyal Warren, Horning, Pa.

Industrial Education

Marshall Wayne Bridges, Ruth'fordton, N. C.
John William Burris.....Brownfield, Texas
Robert Presley DeBardelaben..Decatur, Ga.
Algie Melfi Grubbs.............Barnwell
William Robinson Johnson...Savannah, Ga.
John David Suggs............Columbia

Industrial Management

James Manley Adams.............Union
Richard Harrison Anderson......Anderson
Gregory Stokes Below...........Abbeville
Joseph Barron Blackmon, Jr......Hartsville
Peter Charles Blom.............Landrum
Douglas Cunningham Brown.....Anderson
Richard LeRoy Bushnell.....Arlington, Va.
William Mack Chamblee, Jr......Anderson
Lemmie Jerry Chapman........Greenville
Edward Lee Corley...............Union
James Dixon Corn...........Spartanburg
James Pearlie Creel..............Conway
James Thomas Dickson, Jr.......Florence
Charles Austin Douglas †.........Gaffney
Ralsa Fuller Durham..........Walterboro
Birkett Lee Floyd..............Columbia
Thomas Walter Glenn III.........Laurens
Timothy Boiter Harris............Pelzer
Charles Gerald Henderson........Clemson
Dwight Blaine Henderson........Chesnee
Max Grey Holland *.......Gastonia, N. C.
Samuel Watson Jackson, Jr......Rock Hill
Thomas Cheek Lavender........Greenville
Terry Lavern McDonald......Ware Shoals
Arnold Archer Pelter.......Baltimore, Md.
Charles William Pope.......Savannah, Ga.
Charles Kenneth Powell........Greenwood
Donald Hunter Rowell......... Anderson
Herbert Rudulph Rowland...St. Marys, Ga.
Gerald Clyde Scott............Darlington
Lowndes Phippen Shingler........Sumter
George Whitmore Sorensen, Jr...Rock Hill
Joe Arnold Suddeth............Greenville
Charles Samuel Sumner............Union
William Bryant Thompson........Clemson
William Ernest Tumblin......Honea Path
James Tracy Webber.........Spartanburg
Nancy Joy Workman...Chattanooga, Tenn.

Physics

Niels Christensen, Jr.............Beaufort
Ronald Clyde Passmore *...........Joanna
James Bratton Robertson........Charleston
Thomas Arlington White, Jr. *....Clemson
James Claude Wood, Jr.,† Spartanburg

Pre-Medicine

Joel William Allgood ‡........Charleston
Wesley Lamar Betsill, Jr.†......Lake View
Charles Horace Camp...........Clemson
Robert Edward Jackson *....... Manning
Malcombe Anthony McAlister.....Clemson
Herbert Austin Wood, Jr.*......... Cayce

SCHOOL OF ENGINEERING

Bachelor of Science Degree

Agricultural Engineering

(Agricultural Engineering is jointly administered by the School of Agriculture and the School of Engineering)

William Gerald Brooks............ Loris
John Moton Carpenter............ Easley
Donald Burns Clark.............Hartsville
James Carl Henderson..........Greenville
Leroy Leonidas Kolb, Jr........Pinewood
Lindsay Lionel McElwee, Jr....... Clover
Luke Atkinson Nance, Jr...Galivants Ferry
Jack Lee Phillips..........North Augusta
Jackie Wayne Darmon Robbins, Inman

* With honor.
‡ With highest honor.

Ceramic Engineering

Charles Robert Cooper . . . . Blackville
Jerry Barnett Finley . . . . Laurens
Lonnie Fred Ivey . . . . Greenwood
Robert Shearer Lawrence * . . Brevard, N. C.
James Charles Marvin . . . . Aiken
Edgar Lynn Miller, Jr. . . . . Statesville, N. C.
Harvey Jordan Newton, Jr. . . . . . Hartsville
Robert Henry Polk . . . . Clemson
Robert Davis Reece . . . . Greer
John Roland Richbourg, Jr. . . . . . . Clemson
Robert Jerald Shore . . . . Greenville
James Lee Shull . . . . Lexington
John Elberfeld Slagel, Ironton, Ohio

Chemical Engineering

William Harris Conner, Jr.* . . Timmonsville
James Rion Ervin . . . . Florence
Charles Waitus Floyd . . . . . . Galivants Ferry
Craig David Garren . . . . Asheville, N. C.
Robert Sandifer Hill * . . . . Jackson
Edward Conyers Horton, Jr.* . . . . Kingstree
Joseph Ellis Long . . . . Greenville
Charlie Elford Luquire . . . . Greenwood
Joseph Allgood Pratt * . . . . Liberty
Homer Lee Rudisail . . . . Greer
Thomas Ozburne Sanders III . . . . Kline
Henry Russell Savage † . . . . Greenville
James MacKnight Washington . . Honea Path
Michael Douglas Webb . . . Nashville, Tenn.
Robert Lee Wilson, Aiken

Civil Engineering

Donald William Bergman . . . . Augusta, Ga.
Michael Reed Carter, Jacksonville Beach, Fla.
Charles Roland Douglass . . . . Greenwood
Robert Wheeler Finklea . . . . Pamplico
Frederick Henry Gramling . . . . . Orangeburg
Joel Willard Gray III . . . . Greenville
Joe Earl Greer . . . . Greenville
Thomas Earl Hawkins . . . . Cheraw
Marion Lee Jones, Jr. . . . . Beaufort
James Madison Kizer . . . . Walterboro
Edwin Charles Lippy * . . . . Littlestown, Pa.
Earl Hugh McEntire . . . Rutherfordton, N. C.
James Shannon McKinney . . . . . Spartanburg
Roger Talmadge Mizell * . . . . St. George
John Robert Nettles . . . . Charleston
Michael Peter Norungolo . . . . Greenville
Robert Henry Purkerson . . . . Greenwood
Sheldon Guy Strickland * . . . . Anderson
Frank Graham Templeton, Jr.—
Charlotte, N. C.
Earle Aldon Thompson, Jr., Reevesville

Electrical Engineering

Billy Leroy Adair . . . . Joanna
Johnny Lee Adams . . . . Anderson
William Jackson Baldwin * . . . . Spartanburg
Drumond Jackson Brown . . . . Enoree
Donald Anthony Callia . . . . Inman
Mitchell Williams Costas . . . . Florence
John Leland Cox . . . . Seneca
Walden Fred Coyle . . . . Anderson
George Philip Crotwell, Jr. . . . . Liberty
Robert Carroll Dantzler . . . . Holly Hill
Milton Henry Densman . . . . Blackville
Donald Gibson Derrick . . . . Fort Mill
Jackie Dean Guest . . . . Cowpens
Charles Kent Ham * . . . . Florence
James Carver Hill * . . . Hendersonville, N. C.
Reginald Alexander Hoover . . . . . . Rock Hill
Vernnie Jerome Hudson . . . North Charleston
John Robinson Inabinet . . . . Woodford
John Ralph Kay . . . . Anderson
Daniel Augustus Leaphart . . . . . . Charleston
Joseph Robert Lovin . . . . Canton, N. C.
Frederick William McMahon . . . . Charleston
Donald Woodrow Nalley . . . . Easley
Ronald Tharin Nolte . . . . Charleston
Thomas Mitchell Osmer ‡ . . . . Kingstree
Francis Wayne Ouzts . . . . Callison
Leslie Draffin Preston * . . . . Columbia
William Preston Rampey † . . . . Easley
John Montague Schumpert * . . . . McCormick
Ronald LeRoy Slice * . . . . Columbia
William Alexander Smith,* Charlotte, N. C.
David Wilson Varn † . . . . Abbeville
Harold Ray Wicker, Greenville

Industrial Engineering

Beverly Earl Barksdale III . . Charlotte, N. C.
Earl Clifford Bogardus . . . . Clemson
David Redditt Jeter . . . . . Waynesville, N. C.
Robert Allen Kirby . . . . Asheville, N. C.
William Randolph Looper . . . . Pelzer
Julius Carson Rhodes . . . . Hartsville
Glenn Raymer Wilfong, Hickory, N. C.

Mechanical Engineering

Glenn Dalton Allen, Jr.,* Hender'ville, N. C.
Clifton Lynwood Boylston, Jr.* . . . . Sumter
William Harold Buzhardt . . . . Edgefield
Ronald Leon Carlay . . . . Greenwood
Roscoe Shelley Caughman* . . . . . . Lexington
Wade Douglas Fletcher . . . . McColl
Charles Hay Frampton . . . . North Charleston
Louis Pickens Fuller . . . . Fort Mill
Hugh Terrell Garner, Jr. . . . . Greenville
Carlton Sherman Gibson . . . . Georgetown
Kenneth McDaniel Gillespie . . . . Liberty
Michael Eugene Hilley . . . . Greenwood
Benjamin Albert Ingram . . . . Pageland
Joel Mack Jordan . . . . Charlotte, N. C.
Carroll Eugene League, Jr.* . . . Ware Shoals
David Sheffield Leverette,† Winchester, Mass.
David Lafayette McGalliard—
Morganton, N. C.
Larry Alan Moore . . . . Charlotte, N. C.
Robert Edgar Odom . . . . Greenville
Charles Edward Perry . . . . Ridgeland
Ralph Tillman Rogers . . . . Walhalla
Edward Lacounte Sallette, Jr., Savannah, Ga.
Robert West Seely . . . . Rock Hill
John Radcliffe Smith,† Hendersonville, N. C.
Bill Allison Tolson . . . . Timmonsville
Rogers Lawrence Tomblin . . Spindale, N. C.
Thomas Smith Uldrick . . . . Donalds
Thomas Cooper Welch III,* Charleston

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* With honor.
† With high honor.
‡ With highest honor.

SCHOOL OF TEXTILES

Bachelor of Science Degree

Textile Chemistry

Reginald Trafton Cranford,* Pineville, N. C.
Bobby Rae Kemels .... Anderson
Bobby Lewis Neal .... Rock Hill
Francis Asbury Townsend, Jr.* Aiken

Textile Engineering

Thomas Mattison Ariail, Sevierville, Tenn.

Textile Management

Alvin Aubry Adams, Sr.* ..... Union
William Thomas Anderson ..... Greenwood
David Allen Arnold .... Aiken
Kenneth Ray Buchanan .... La France
James Calvin Catoe .... Chester
Charles Edward Eubanks .... Lyman
Steve Crawford Francis ..... Grover, N. C.
Donald Raphael Greer .... Spartanburg
Milledge Jefferies Holstein .... Monetta
Robert Spencer Roddey .... Greenwood
Archie David Rodgers III ..... Georgetown
Steve Jones Saunders .... Rock Hill
Robert Mast Simril .... Rock Hill
John Bernard Swart .... Caracas, Venezuela
John Douglas Todd .... Spartanburg
James Alfred Wellmaker .... Ninety Six
John Thomas White, Jr. .... Anderson
John Casper Wingo .... Union
Walter Harral Young, Jr., Sumter

Textile Manufacturing

Robert Francis Stevenson, Clemson

Textile Science

James Leander Adams, Jr.,‡ Spartanburg

MASTERS' DEGREES CONFERRED JUNE 4, 1961

SCHOOL OF AGRICULTURE

Master of Science Degree

Agricultural Economics

Daniel Wheeler Bickley .... Clemson
Milford Hunt Sutherland .... Clemson
Paul Silas Williamon, Clemson

Agricultural Education

John Olar Black, Jr., Easley

Agronomy

Donald Workman Eaddy .... Clemson
Albert Norman Plant .... Clemson

Bacteriology

Gail Stephens Bosley, Clemson

Entomology

Momin Uddin Ahmed— Noakhali, East Pakistan
John Benjamin Kissam .... Clemson
Kovit Naiyapinit .... Bangkok, Thailand
Lamar Edward Priester, Jr., Clemson

Horticulture

Ralph Nicholson Boatwright ..... Clemson
Donald Furman Fox ...... Mars Hill, N. C.
Donald Elmer Hudson ..... Zirconia, N. C.
Franklin Delano Souther .... Clemson

Plant Pathology

Richard Henry Holstein III ...... Clemson
Robert Hardin Littrell .... Clemson
States Marion McCarter, York

SCHOOL OF ARTS AND SCIENCES

Master of Science Degree

Chemistry

Kenneth Gary Jordan .... Clemson
James Brewer McKinzie .... Clemson

* With honor.
‡ With highest honor.

Education

Marie Keaton Campbell . . . . Anderson
Johnnye Murdock Uldrick Gainesville, Fla.

Mathematics

Ernest Stokes Armstrong, Jr. . . . . . Fort Mill
George Henry Heron . . . . . Jenkinsville

Nuclear Science

George Milton Jacks, Mountville

Physics

William Edward Gettys . . . . Union
James William Hawthorne Clemson
William Henry McMahan, Concord, N. C.

SCHOOL OF ENGINEERING

Master of Science Degree

Ceramic Engineering

John Dennis Buckley . . . . Bishopville
Robert Bruce McLees Clemson

HONORARY DEGREES CONFERRED JUNE 4, 1961

Doctor of Literature
Jay Broadus Hubbell, Durham, N. C.

Doctor of Science
Julian Creighton Miller, Baton Rouge, La.

Doctor of Literature
Paul Quattlebaum, Conway

Doctor of Laws
James Strom Thurmond, Aiken

Doctor of Laws
Edward Anthony Wayne, Richmond, Va.

BACHELORS' DEGREES CONFERRED AUGUST 11, 1961

SCHOOL OF AGRICULTURE

Bachelor of Science Degree

Agriculture—Agricultural Economics Major

Sam B. McQueen, Jr., Galivants Ferry

Agriculture—Agronomy Major

Albert Delano Fore, Dillon

Agriculture—Animal Husbandry Major

James Seaborn Jones, Jr., Cameron

Agriculture—Forestry Major

William Harvey Shannon, Blackstock

SCHOOL OF ARCHITECTURE

Bachelor of Architecture Degree

Amir Moussa Behbehani . . . . . Tehran, Iran
Jack French Parsons . . . . Brevard, N. C.
Robert Everett Washington, Clemson

SCHOOL OF ARTS AND SCIENCES

Bachelor of Science Degree

Applied Mathematics

Vernon Earl Liberty . . . . Clemson
Robert Trotman . . . . . . Greenwood

Arts and Sciences

Jerry Neil Arney . . . . Greenville
John Peter Rugheimer, Jr. . . . . . . Charleston
John Norman Sims,* Greenville

Education

Benjamin Thomas Boling . . . . Greenville
Lorraine Hayne Jeffcoat ‡ . . . . Hampton
Robert Nandell Moser . . . . Sarver, Pa.
John Edison Webb, Jr. . . . . . Pittsburgh, Pa.

Industrial Management

Martin Edward Carson . . . . Saluda
Herbert Melvin Chandler, Jr. . . . . Pelzer
Preston Thomason Garrett, Jr. . . . . Anderson
Eldridge David Gibbs, Jr. . . . . Augusta, Ga.
Eugene Goodlett Gibson . . . . Greer
Lloyd George Gurley . . . . . . Goldsboro, N. C.
George Luther Johnson, Jr. . . . . Greenwood
Thomas Allen Laidlaw . . . Jacksonville, Fla.
William Howard LeFevre . . . . Clemson
Marcus Es'Dorn Lemacks . . . . Ravenel
Gerald Elledge McDaniel, Jr. . . . . Columbia
Robert Glenn McGee . . . . Clinton
Edwin Clough Rice, Jr. . . . . . . Plum Branch
John Rufus Shane . . . . Florence
Martin Edward Walsh, Hendersonville, N. C.
Clark John Weeks . . . . Florence

Physics

Armond Derieux Edge . . . . Moore
Chester Lewis Foster, Jr.* . . . . Roebuck

SCHOOL OF ENGINEERING

Bachelor of Science Degree

Ceramic Engineering

Ronald Todd Hillhouse . . . . Anderson
Don Thomas Rodgers . . . . Greenville
James Melvin Thomas, Greenville

Chemical Engineering

Thomas Torrence Fetters . . . . . Evanston, Ill.
Arthur Elstner Garrenton, Jr. . . . . . . Sumter
Clarence Bradford Jeffcoat, Fairfax

Civil Engineering

Stephen Tully Beasley . . . . Aiken
William Maner Bostwick, Jr. . . . . Charleston
John Edward Britt . . . . Greenwood
Travis LeRoy Carter . . . . Hemingway
Joseph Alexander Mandy, Brooklyn, N. Y.

Electrical Engineering

Geo. Lindsay Cleveland, Jr., Asheville, N. C.
William Edward Grishaw, Jr. . . . Pendleton
William Jue'l Hamilton, Hend'sonville, N. C.
Woodrow Wyman Hawkins . . . . . . Greenville
Joseph Michael Lavelle . . . . Charleston
Charles Raymond Sanders . . . . . . Charleston
Hubert Lee Sanders . . . . Blacksburg
Donald Ray Steele . . . . Lancaster
William Milton Sumerel, Laurens

Industrial Education

James White Campbell . . . . Lake City
William Polk Ginn . . . . Varnville
Wallace Edward Kizer . . . . St. George
Charles Henry Peterson . . . . Maspeth, N. Y.
Raymond Franklin Prince . . . . Laurens
Robert Lawrence Wiggins . . . . Belton

Industrial Engineering

Lowry Melmoth Wilson, Jr., Clinton

Mechanical Engineering

William Joseph Barnett . . . . Atlanta, Ga.
Oscar C. Batchelor . . . . Clemson
Benjamin Robert Briggs * . . . . Greenville
Wallace Dean Hughes . . . . Seneca
Michael Smith Oliver . . . . Ruby
Surendra Himatlal Shah . . . . Bombay, India

SCHOOL OF TEXTILES

Bachelor of Science Degree

Textile Chemistry

Bruce Adron Evans . . . . Anderson
Terry Allen Hunt . . . . York

Textile Management

William Harry Balding . . . . . . Travelers Rest
John Wayne Chamness . . . . . . Bennettsville
Sidney Gordon Fisher . . . . Charleston
Charles LeRoy Freeman . . . . Clemson
Richard Holmes Ivester . . . . Newberry
Thomas Geddings Roche, Jr. . . . . . . Gaffney
Joe Douglas Rogers . . . . Williamston
David Andrew Wallace . . . . Spartanburg

* With honor.
‡ With highest honor.

Textile Manufacturing

Dalton Odell Carpenter, Jr. ..... Newberry
Charles Ervin Howe .... Chester
Franklin Roosevelt Stone, Buffalo

Textile Science

Orren Franklin Hunter, Bamberg

MASTERS' DEGREES CONFERRED AUGUST 11, 1961

SCHOOL OF AGRICULTURE

Master of Science Degree

Agricultural Economics

William Martin Garmon .... Cary, N. C.
John Louis Williams .... Abbeville

Agricultural Education

Maxcy Pearle Nolan, Sr., Marion

Agronomy

George Wilfred Langdale, Walterboro

Horticulture

Lucius Compton Hamilton, Clemson

Zoology

Mabel Brown Richardson, Clemson

Master of Agricultural Education Degree

David Ramsey Chastain .... Williamston
Warren Hutson Eaddy .... Florence
Tracy Lavan Lane .... Johnsonville
Wilson Lovett .... Green Sea

SCHOOL OF ARTS AND SCIENCES

Master of Science Degree

Chemistry

Bobby Gene Stephens, Glendale

Education

Helen Milford Coleman .... Anderson
Thomas Marshall Looper .... Townville
Marion William Middleton, Williamston

Master of Education Degree

Naomi Kemp Bailey .... Greenwood
William Jeremiah Friddle .... Greenville
Mary Ellen Campbell Guest ...... Marietta
Hoover Jackson Neel .... Clemson
James Glenn Shirley .... Piedmont
Wilma Rachel Taylor .... Kershaw

SCHOOL OF ENGINEERING

Master of Science Degree

Agricultural Engineering

(Agricultural Engineering is jointly administered by the School of Agriculture and the School of Engineering)

Samuel Chester Gambrell, Jr., Clemson

Mechanical Engineering

Ben Landrum Johnson, Clemson

BACHELORS' DEGREES AWARDED IN 1961 BY MAJOR COURSES

School of Agriculture		65
Agricultural Economics	5	
Agricultural Education	10	
Agronomy	9	
Animal Husbandry	9	
Dairy	3	
Entomology	4	
Forestry	18	
Horticulture	7	
School of Architecture (including double major)		19
Architecture	19*	
School of Arts and Sciences (including double major)		174
Applied Mathematics	6**	
Arts and Sciences	36	
Chemistry	9	
Education	22	
Industrial Education ***	7	
Industrial Management	77	
Physics	8	
Pre-Medicine	9	
School of Engineering		206
Agricultural Engineering	12	
Ceramic Engineering	19	
Chemical Engineering	19	
Civil Engineering	35	
Electrical Engineering	58	
Industrial Education ***	6	
Industrial Engineering	10	
Mechanical Engineering	47	
School of Textiles		56
Textile Chemistry	7	
Textile Engineering	1	
Textile Management	37	
Textile Manufacturing	9	
Textile Science	2	
Total Bachelors' Degrees Awarded in 1961 (excluding duplicates)		518

MASTERS' DEGREES AWARDED IN 1961 BY MAJOR COURSES

School of Agriculture	
Agricultural Economics	7
Agricultural Education	6
Agronomy	3
Animal Husbandry	2
Bacteriology	2
Entomology	6
Horticulture	7
Plant Pathology	3
Zoology	1
School of Arts and Sciences	
Chemistry	6
Education	15

* Includes one student who was formerly graduated in Industrial Education.
** Includes one student who was formerly graduated in Electrical Engineering.
*** Industrial Education transferred to School of Engineering, July 1, 1961.

Mathematics	2
Nuclear Science	2
Physics	3
Engineering	
Agricultural Engineering	3
Ceramic Engineering	2
Electrical Enginering	2
Mechanical Engineering	4
Textiles	
Textile Chemistry	2
Total Masters' Degrees Awarded in 1961	78

TOTAL DEGREES AWARDED BY MAJOR COURSES, 1896-1961

Bachelors'

Major Course	
Agriculture	244
Agriculture and Animal Industry	80
Agriculture and Chemistry	69
Agricultural Chemistry	102
Agricultural Economics	247
Agricultural Education	287
Agricultural Engineering	417
Agronomy	710
Animal Husbandry	701
Applied Mathematics	6
Architectural Engineering	118
Architecture	443
Arts and Sciences	554
Bachelor of Science	3
Botany	12
Ceramic Engineering	106
Chemical Engineering	203
Chemistry	321
Chemistry and Geology	11
Chemistry-Engineering	43
Civil Engineering	1,084
Dairy	348
Education	196
Electrical Engineering	1,371
Engineering Industrial Education	70
Entomology	153
Forestry	41
General Science	359
Horticulture	394
Industrial Education	265
Industrial Engineering	49
Industrial Management	297
Industrial Physics	56
Mechanical Engineering	1,153
Mechanical and Electrical Engineering	489
Physics	24
Poultry	29
Pre-Medicine	247
Soils	9
Textile Chemistry	271
Textile Engineering	1,060
Textile Industrial Education	85
Textile Management	40

Major Course	
Textile Manufacturing	1,044
Textile Science	3
Veterinary Science	16
Vocational Agricultural Education	729
Weaving and Designing	42

Double Majors

Major Course	
Agricultural Chemistry and Arts and Sciences	1
Agricultural Chemistry and General Science	1
Agricultural Economics and Animal Husbandry	1
Agricultural Economics and Vocational Agricultural Education	1
Agricultural Engineering and Civil Engineering	1
Agricultural Engineering and Electrical Engineering	1
Agricultural Engineering and Mechanical Engineering	1
Agronomy and Vocational Agricultural Education	4
Animal Husbandry and Industrial Management	1
Animal Husbandry and Vocational Agricultural Education	5
Animal Husbandry and Agricultural Education	3
Animal Husbandry and Ceramic Engineering	1
Animal Husbandry and Dairy	2
Architectural Engineering and Architecture, five-year	1
Architecture and Architectural Engineering	11
Architecture and Civil Engineering	1
Architecture, four-year, and Architecture, five-year	18
Architecture, four-year, and Mechanical Engineering	1
Arts and Sciences and Agricultural Economics	1
Chemical Engineering and Chemistry and Chemistry-Engineering	3
Chemical Engineering and Chemistry-Engineering	1
Chemistry and Chemical Engineering	1
Chemistry and Chemistry-Engineering	1
Chemistry and General Science	1
Chemistry and Industrial Physics	1
Chemistry and Agricultural Chemistry	1
Civil Engineering and Chemistry and Geology	2
Civil Engineering and Industrial Physics	1
Civil Engineering and Electrical Engineering	1
Civil Engineering and Mechanical Engineering	1
Electrical Engineering and Applied Mathematics	1
Electrical Engineering and Industrial Physics	1
Electrical Engineering and Mechanical Engineering	17
Electrical Engineering and Textile Engineering	1
Entomology and Architecture, five-year	1
Entomology and Pre-Medicine	1
General Science and Ceramic Engineering	1
General Science and Education	1
General Science and Electrical Engineering	1
Horticulture and Agronomy	1
Horticulture and Architectural Engineering	1
Horticulture and Civil Engineering	1
Industrial Education and Architecture	1
Industrial Education and Electrical Engineering	1
Industrial Education and Forestry	1
Mechanical Engineering and Textile Engineering	4
Poultry and Vocational Agricultural Education	1
Pre-Medicine and Arts and Sciences	1
Pre-Medicine and Textile Chemistry	2
Textile Chemistry and Civil Engineering	1
Textile Chemistry and Textile Manufactring	1
Textile Engineering and Civil Engineering	1
Textile Engineering and Mechanical and Electrical Engineering	1

Major Course

Textile Engineering and Textile Industrial Education	1
Textile Engineering and Textile Manufacturing	1
Textile Engineering and Weaving and Designing	1
Textile Manufacturing and Mechanical Engineering	1

MASTERS'

Major Course

Agricultural Economics	48
Agricultural Education	64
Agricultural Engineering	13
Agronomy	9
Animal Husbandry	10
Bacteriology	2
Botany	1
Ceramic Engineering	13
Chemistry	38
Civil Engineering	5
Dairy Science	8
Education	71
Electrical Engineering	8
Entomology	26
Horticulture	14
Industrial Education	11
Mathematics	4
Mechanical Engineering	23
Nuclear Science	3
Physics	27
Plant Pathology	6
Textile Chemistry	21
Textile Industrial Education	1
Zoology	11

DOCTORS'

Major Course

Plant Pathology	1

TOTAL DEGREES AWARDED FROM 1896 THROUGH 1961 15,156

LIST OF STUDENTS IN NINE-WEEK SUMMER TERM AND IN SPECIAL PROGRAMS 1961, SUMMER SCHOOL

The names are arranged in alphabetical order and following the names are symbols indicating three types of students. The symbol (CS) indicates a Clemson undergraduate student; (G), a student pursuing graduate work; (Unc), unclassified student. This classification includes students of other colleges, school teachers, and certain other students pursuing undergraduate work in one or more of the summer school programs.

New students admitted in June 1961 are indicated by an asterisk (*).

Name and Course	*Address*
Abbott, J. R. (CS)	Walhalla
Abdalla, D. A. (G)	Adelphi, Md.
Abee, D. C. (Unc)*	Raleigh, N. C.
Ackerman, J. L. (CS)	St. George
Adams, J. T. (CS)	Clover
Adams, R. A. (CS)	Charleston
Addis, F. E. (CS)	Walhalla
Adkins, D. H. (CS)	Greer
Alexander, D. M. (CS)	Six Mile
Alexander, W. E. (CS)	Seneca
Alford, E. R. (CS)	Latta
Aliffi, J. V. (CS)	Savannah, Ga.
Allen, E. M. (Unc)	Pendleton
Allen, J. L. (CS)	Pendleton
Allen, J. P. (G)*	Anderson
Allen, V. M. (CS)	Central
Allgood, F. H. (CS)	Seneca
Allred, J. R. (CS)	Sanford, Fla.
Alman, W. A. (CS)	Spartanburg
Altman, G. F. (G)*	Galivants Ferry
Amick, B. L. (CS)*	Batesburg
Anderson, J. M. (CS)	Greenwood
Anderson, N. H. (G)	Greenville
Anderson, W. L. (CS)	Rock Hill
Armistead, J. A. (CS)	Easley
Armstrong, L. L. (CS)	Eddystone, Pa.
Arney, J. N. (CS)	Greenville
Arnold, D. C. (CS)	La France
Arnold, R. P. (CS)	Roanoke, Va.
Asbury, R. L. (G)	Charlotte, N. C.

Name and Course	Address
Ashbrook, B. J. (G)	Cullowhee, N. C.
Ashe, M. W. (CS)	Union
Atkinson, R. O. (CS)	Lowrys
Aube, L. A. (Unc)°	Walhalla
Ausburn, R. S. (CS)	Greenville
Austin, E. G. (CS)	Startex
Avinger, A. N. (CS)	Orangeburg
Axmann, L. J. (CS)	Anderson
Ayers, J. K. (CS)	Piedmont
Ayoub, Hibbie (G)	Charleston Heights
Babb, M. M. (CS)	Spartanburg
Bagwell, J. B. (G)	Clemson
Bailes, J. H. (CS)	Union
Bailey, N. K. (G)	Clemson
Bailey, W. M. (CS)°	Greenville
Baker, G. H. (CS)	Warrenville
Baker, J. L. (CS)	Piedmont
Baker, M. C. (CS)	Harleyville
Baker, R. J. (CS)	Charleston
Baker, W. E. (CS)	Whitmire
Balding, W. H. (CS)	Travelers Rest
Baldwin, J. R. (CS)	Greenville
Baldwin, L. E. (CS)	Ravenel
Baldwin, S. L. (CS)	Buffalo
Ballenger, S. H. (G)	Walhalla
Bannister, R. F. (G)	Anderson
Barker, S. R. (Unc)°	Clemson
Barnes, G. M. (CS)	Fairfax, Ala.
Barr, E. T. (CS)	Orlando, Fla.
Barron, B. W. (Unc)°	Greenville
Bashor, A. L. (G)	Conway
Bashor, M. W. (CS)	Conway
Batchelor, O. C. (CS)	Jackson
Batson, W. E. (CS)	Taylors
Beachum, A. M. (CS)	Myrtle Beach
Beaman, C. P. (CS)	Asheville, N. C.
Bearden, C. A. (CS)	Seneca
Beasley, S. T. (CS)	Aiken
Beaty, J. S. (CS)	Rock Hill
Beckham, R. J. (CS)	Rock Hill
Beckman, S. W. (CS)	Columbia
Bedenbaugh, D. W. (CS)	Orangeburg
Belk, J. S. (CS)°	Anderson
Bell, D. R. (CS)	Bowman
Bell, J. D. (CS)°	Greenville
Bell, J. L. (Unc)	Conway
Bell, O. R. (CS)	Anderson
Benjamin, J. C. (CS)	Liberty
Bennett, J. D. (CS)	Spartanburg
Benson, R. D. (CS)	Greensburg, Pa.
Benton, W. E. (CS)	Myrtle Beach
Berry, L. H. (CS)	Thomson, Ga.
Berry, W. E. (CS)	Greenville
Berry, W. J. (CS)	Greer
Bess, C. M. (CS)	Pageland
Best, G. H. (G)°	Barnesville, Ga.
Bethea, A. V. (CS)	Latta
Bethea, T. W. (G)	Lancaster
Bishop, R. J. (CS)	Savannah, Ga.
Black, P. A. (Unc)	Anderson
Blakeney, C. R. (CS)	Kershaw
Blanchard, J. E. (CS)	Sullivans Island
Blanchard, R. A. (CS)	Cheraw
Blanton, J. W. (Unc)°	Gaffney
Bodie, D. R. (CS)	Clover
Boggs, D. M. (CS)	Clemson
Boggs, G. T. (CS)	Greenville
Boggs, J. B. (CS)°	Clemson
Boland, G. H. (CS)	Prosperity
Boling, B. B. (G)°	Clemson
Boling, B. T. (CS)	Greenville
Bonham, M. W. (CS)	Chesnee
Bonnette, G. E. (CS)	Orangeburg
Bonney, R. C. (CS)	Fairfield, Conn.
Booker, J. P. (Unc)	Walhalla
Booth, L. L. (CS)	Clemson
Bosley, J. E. (CS)	Beaufort
Bossard, D. R. (CS)	Clemson
Bostwick, W. M. (CS)	Charleston

Name and Course	Address
Bowen, P. E. (CS)	Westminster
Boykin, J. K. (CS)	Rock Hill
Boylston, D. W. (CS)	Sumter
Brabham, C. J. (CS)	Greenwood
Bradham, J. C. (CS)	Sumter
Bramlette, G. N. (CS)	Spartanburg
Bramlette, J. M. (CS)	Greenville
Brannon, M. J. (CS)	Drayton
Branton, G. W. (G)°	Pelzer
Brent, J. A. (CS)	Savannah, Ga.
Brian, S. B. (CS)	Wellford
Brice, E. M. (G)°	Blackstock
Bridges, R. D. (CS)	Taylors
Briggs, B. R. (CS)	Greenville
Brigham, L. W. (Unc)°	Greenville
Bristol, R. A. (CS)	Liberty
Britt, J. E. (CS)	Greenwood
Broadway, E. H. (CS)	Bishopville
Brock, A. H. (Unc)	Seneca
Brock, D. J. (Unc)	Seneca
Brock, J. L. (CS)°	Central
Browder, L. E. (G)	Andrews
Brown, B. H. (CS)°	Easley
Brown, D. A. (CS)	Charleston
Brown, E. G. (CS)	Columbia
Brown, G. R. (CS)	Barnwell
Brown, H. M. (G)°	Belton
Brown, Joseph Lee (CS)	Enoree
Brown, J. L., Jr. (CS)	Charleston
Brown, J. W. (CS)	Anderson
Brown, K. F. (CS)	Georgetown
Brown, Ruth (Unc)	Westminster
Brown, R. L. (CS)	Greenwood
Brown, W. L. (CS)	Laurens
Bruce, J. E. (CS)	Greenville
Bryan, J. R. (CS)	Columbia
Bryant, O. H. (CS)	Mt. Sterling, Ky.
Bryce, C. S. (CS)	Florence
Bryson, J. A. (G)	Marion, N. C.
Buffington, J. J. (CS)	Clinton
Bujanski, T. R. (CS)	Greenville
Bullock, R. A. (CS)	Brevard, N. C.
Bumpas, O. C (CS)	Clark Hill
Bunnell, D. D. (CS)	Philadelphia, Pa.
Bunton, T. B. (CS)	Pelzer
Burdette, J. N. (CS)	North Augusta
Burdette, W. H. (CS)	Seneca
Burgess, J. K. (CS)	Atlanta, Ga.
Burgess, T. L. (CS)	Greenville
Burnett, R. E. (CS)	Clemson
Burnett, W. E. (Unc)	Wellford
Burnette, W. R. (CS)	Bristol, Va.
Burriss, P. A. (Unc)	Anderson
Burts, F. M. (CS)	Anderson
Busby, T. R. (CS)	Orangeburg
Bussey, J. L. (CS)	Spartanburg
Byars, E. B. (CS)	Lowyrs
Byas, H. E. (CS)	Asheville, N. C.
Byrd, J. F. (CS)	Edgefield
Caldwell, W. H. (CS)	Kings Creek
Callaham, L. D. (Unc)	Westminster
Camak, T. M. (G)	Anderson
Campbell, B. H. (CS)	Spartanburg
Campbell, J. L. (CS)	Spartanburg
Campbell, James W. (CS)	Lake City
Campbell, John W. (Unc)°	Mt. Pleasant
Campbell, R. S. (G)	Aiken
Campbell, S. L. (CS)	Rock Hill
Cantrell, A. F. (CS)	Liberty
Carland, W. S. (CS)	Fletcher, N. C.
Carpenter, G. W. (CS)	Gastonia, N. C.
Carpenter, K. C. (G)°	Lincolnton, N. C.
Carroll, M. D. (CS)	Smoaks
Carros, C. G. (CS)	Spartanburg
Carson, C. D. (CS)	Columbia
Carson, M. E. (CS)	Saluda
Carter, G. G. (Unc)	Clemson
Carter, H. H. (CS)	Albany, Ga.
Carter, H. T. (CS)	Walterboro

Name and Course	*Address*
Carter, S. A. (CS)	Belvedere
Carter, T. L. (CS)	Lexington
Carter, W. T. (CS)	Longs
Carver, J. R. (CS)	Newberry
Case, L. C. (G)	Clemson
Cash, J. H. (CS)	Taylors
Cassidy, R. L. (CS)	Darlington
Castro, W. E. (G)	Middletown, N. Y.
Catenaci, J. E. (CS)	Eatontown, N. J.
Causey, R. C. (CS)	Furman
Cauthen, L. W. (CS)	Lancaster
Cazeau, J. G. (CS)*	Clemson
Chalmers, J. W. R. (CS)	Walhalla
Chambers, D. A. (CS)*—	Pisgah Forest, N. C.
Chamness, J. W. (CS)	Bennettsville
Chapman, J. I. (CS)	Luray
Chapman, R. B. (Unc)*	Anderson
Chastain, D. R. (G)	Williamston
Cheek, D. L. (Unc)*	Westminster
Chelf, W. H. (CS)	Rock Hill
Childers, C. W. (CS)	Greenville
Childress, J. R. (Unc)	Pickens
Childress, L. E. (CS)	Kenmore, N. Y.
Childress, W. H. (CS)	Salem
Chovan, P. A. (CS)	Clinton, Md.
Clamp, D. C. (CS)	Salley
Clark, F. J. (CS)	Anderson
Clark, H. A. (CS)	Pendleton
Clark, H. F. (CS)*	Martinez, Ga.
Clarke, J. H. (CS)	Pineville
Clawson, C. D. (G)	Clemson
Clayton, H. W. (CS)*	Greenville
Cleveland, G. L. (CS)	Asheville, N. C.
Clinkscales, L. N. (CS)	Anderson
Clyburn, H. L. (CS)	Camden
Cobb, J. G. (CS)	Walhalla
Coleman, H. M. (G)	Anderson
Collier, E. P. (G)	Harleyville
Collins, C. A. (CS)	Greenville
Collins, E. L. (CS)	Greenville
Collins, J. C. (CS)	Pendleton
Collins, J. W. (CS)	Pageland
Collins, K. D. (CS)	Westminster
Collins, Robin (CS)	Orangeburg
Colt, B. H. (CS)	Hendersonville, N. C.
Conway, W. F. (CS)	Sumter
Cook, B. D. (G)*	Bowling Green, Ky.
Cook, W. P. (CS)	Woodruff
Cooper, G. T. (CS)	Camden
Cooper, J. F. (G)*	Taylors
Cope, E. G. (CS)	Newberry
Copeland, J. C. (CS)	La France
Copeland, P. W. (CS)	Clinton
Corbett, P. H. (CS)	Neeses
Corbett, P. M. (Unc)*	Columbia
Corley, G. A. (CS)	Lexington
Corley, W. L. (G)	Experiment, Ga.
Corn, W. R. (CS)	Union
Cornwell, B. G. (G)*	Clemson
Cornwell, D. F. (CS)	Greenville
Costa, J. M. (CS)	Charleston
Cothran, R. L. (CS)	Easley
Council, J. R. (CS)	Orangeburg
Cox, B. A. (CS)	Quebec, Canada
Cox, C. W. (CS)	Seneca
Cox, J. E. (G)	Loris
Crabtree, S. J. (CS)	Charleston Heights
Creach, M. L. (CS)	Hartsville
Crenshaw, R. W. (CS)	Lancaster
Cribb, R. E. (G)	Effingham
Cribb, V. T. (CS)	Cheraw
Critser, R. W. (CS)	Charleston
Crocker, B. E. (CS)	Gaffney
Croen, E. F. (CS)	Camden
Crooks, M. S. (Unc)*	Anderson
Cross, J. S. (CS)	Conway
Crouch, A. B. (CS)	Ward
Croxton, T. C. (CS)	Kershaw
Cruser, L. C. (CS)	Clemson

Name and Course	*Address*
Cundiff, D. E. (Unc)*	Raleigh, N. C.
Cunningham, J. S. (CS)	Greenville
Cuttino, D. P. (CS)	Atlanta, Ga.
Dalaklis, S. P. (CS)	Rock Hill
Dale, D. W. (CS)	Charlotte, N. C.
Daniel, M. F. (CS)	Clinton
Dansby, J. C. (CS)	North Augusta
Davenport, C. O. (CS)	Clinton
Davey, J. A. G. (CS)—	Hendersonville, N. C.
Davis, B. E. (G)	Seneca
Davis, E. N. (CS)	Sheffield, Ala.
Davis, G. E. (CS)*	Hickory, N. C.
Davis, J. A. (CS)*	Greenville
Davis, M. H. (G)*	Abbeville
Dawkins, J. W. (CS)	Greenville
Deadwyler, E. H. (CS)*	Six Mile
DeBruhl, J. C. (G)	Mauldin
Deich, C. S. (CS)	Savannah, Ga.
Dempsey, D. P. (CS)	Taylors
Derting, C. W. (G)	Hiltons, Va.
DesJardins, J. R. (CS)	Columbia
de Vallee, F. H. (CS)	New York, N. Y.
DeWitt, J. W. (CS)	Pamplico
Dickerson, B. F. (CS)	Hartwell, Ga.
Dickinson, J. K. (CS)	Richmond, Va.
Dill, D. O. (CS)	Alexandria, Va.
Dillard, T. W. (CS)	Hickory Grove
Dinkins, R. B. (CS)	Sumter
Dixon, J. W. (CS)	Neenah, Wis.
Dolinsky, L. T. (CS)	Brooklyn, N. Y.
Donahue, J. T. (CS)	Aiken
Dorn, P. C. (CS)	McCormick
Dorsey, J. H. (CS)*	Seneca
DuBose, D. T. (CS)	Oswego
DuBose, P. G. (G)*	Abbeville
DuBose, T. A. (CS)	Clemson
Dukes, D. L. (CS)	Norway
Dukes, L. M. (CS)	Branchville
Dulohery, C. J. (CS)	Savannah, Ga.
Dunagan, F. C. (CS)	Spartanburg
Dunkelberg, D. S. (CS)	Clemson
Dunlap, L. P. (G)*	Donalds
Dunsmoor, D. E. (CS)	Renton, Wash.
Durham, J. W. (CS)	Pickens
Duvall, S. E. (CS)	Greenville
Dyches, F. D. (CS)	Beaufort
Dye, R. E. (CS)	Anderson
Eaddy, W. H. (G)	Florence
Eades, J. R. (CS)	Liberty
Eargle, E. S. (CS)	Leesville
Eberhart, T. R. (CS)	Tarentum, Pa.
Eckard, W. F. (CS)	Charlotte, N. C.
Edens, D. D. (G)	Pendleton
Edens, E. G. (CS)	Charleston Heights
Edge, A. D. (CS)	Duncan
Edgerton, G. K. (Unc)	Savannah, Ga.
Edmonds, H. B. (CS)	Anderson
Edmundson, D. B. (CS)	Clinton, Md.
Edwards, J. B. (CS)	Dallas, Tex.
Edwards, J. W. (CS)	Crescent Beach
Efird, J. S. (CS)	Memphis, Tenn.
Efland, H. T. (G)*	Clemson
Elliott, R. P. (G)	Indianapolis, Ind.
Ellis, R. C. (CS)	Aiken
Ellison, T. M. (G)	Spartanburg
Embler, E. T. (CS)	Anderson
Embler, M. J. (CS)	Townville
Epting, R. A. (CS)	Clemson
Estelle, D. P. (CS)	Cameron
Etters, J. N. (G)	Chester
Evans, B. A. (CS)	Anderson
Evans, C. E. (CS)	Jeannette, Pa.
Evans, H. M. (CS)	Belton
Evans, R. D. (CS)*	Anderson
Fanning, C. C. (CS)	Laurens
Farmer, J. Q. (CS)	Florence

Name and Course	*Address*
Farr, W. W. (CS)	Augusta, Ga.
Farthing, O. M. (G)*	Rock Hill
Faulkner, S. W. (CS)	Gastonia, N. C.
Feemster, R. E. (CS)	McConnells
Felder, H. M. (CS)	Clemson
Ferguson, J. E. (CS)	Seabrook
Ferguson, T. D. (G)	Great Falls
Few, J. D. (CS)	Easley
Finkenstadt, Carolyn (Unc)*	Seneca
Finley, E. L. B. (Unc)	Clemson
Fleishman, H. F. (Unc)	Anderson
Flint, S. A. (Unc)*	Anderson
Floyd, S. W. (CS)	Greenville
Fodor, N. W. (Unc)*	Anderson
Fogle, L. B. (CS)	Franklin, Pa.
Folk, J. C. (CS)	Denmark
Folk, R. H. (G)	Belton
Ford, C. G. (CS)	Florence
Ford, P. T. (CS)	Dillon
Fore, A. D. (CS)	Dillon
Foster, C. L. (CS)	Roebuck
Foster, L. E. (CS)	Seneca
Foster, R. M. (Unc)	Rock Hill
Fousek, C. E. (CS)*	Townville
Fowler, M. L. (CS)	Charleston
Fox, E. H. (CS)	Greer
Fraliek, O. H. (CS)	Walterboro
Fraliek, T. R. (CS)	Bamberg
Frankhouser, J. R. (CS)	Reedsville, Pa.
Frasca, Anthony (CS)	Lynn, Mass.
Freeman, C. L. (CS)—	Rutherfordton, N. C.
Freeman, C. R. (CS)	Sumter
Fritz, R. V. (CS)	Asheboro, N. C.
Fry, L. H. (G)	Kingstree
Gable, J. E. (CS)	Belton
Gable, P. K. (CS)	Belton
Gaddy, J. H. (CS)	Dillon
Galloway, R. C. (CS)	Easley
Gamble, J. S. (CS)	Greenville
Gambrell, L. A. (CS)	Pendleton
Gambrell, S. C. (G)	Owings
Garges, J. H. (CS)	Charlotte, N. C.
Garland, D. H. (CS)	Tamassee
Garner, R. T. (CS)	Greenville
Garrett, D. R. (CS)	Taylors
Garrett, H. A. (CS)	Pickens
Garrett, P. T. (CS)	Anderson
Garrison, R. C. (CS)*	Clemson
Garrison, R. H. (CS)*	Anderson
Garrison, W. G. (CS)	Anderson
Garwood, S. G. (CS)	Cedartown, Ga.
Gaskill, K. V. (CS)	Central
Gasque, R. L. (CS)	Clinton
Geddings, W. R. (CS)	Columbia
Gee, M. C. (G)	Davidson, N. C.
George, D. P. (CS)	Laurens
Georgion, G. D. (CS),	Rutherfordton, N. C.
Gibbons, W. W. (CS)	McKeesport, Pa.
Gibbs, E. D. (CS)	Augusta, Ga.
Gibson, E. G. (CS)	Greer
Giles, C. D. (CS)	Westminster
Gilreath, J. D. (CS)*	Belton
Ginn, W. P. (CS)	Varnville
Glasgow, J. J. (CS)	Conway
Glasgow, M. S. (G)*	Greenwood
Glenn, L. M. (CS)	Abbeville
Godley, G. L. (Unc)*	Clemson
Godsey, J. C. (CS)	Greenwood
Godwin, Donald (G)	Scranton
Goodson, T. H. (CS)	Hartsville
Goodwin, L. J. (CS)	Greenville
Gore, W. E. (CS)	Columbia
Graham, B. C. (CS)	Nichols
Graham, D. L. (CS)	Greenville
Graham, L. C. (CS)	Seneca
Graham, M. T. (CS)	Greenville
Gramling, R. G. (CS)	Orangeburg
Grant, C. D. (CS)	Greenville

Name and Course	*Address*
Grastie, L. J. (CS)	Greenville
Gravely, J. W. (CS)	Walhalla
Graves, J. T. (CS)*	West Columbia
Gray, C. H. (CS)	Inman
Gray, C. L. (G)*	Iva
Gray, M. P. (CS)	Greenville
Grayson, G. P. (CS)	North Charleston
Greenway, G. D. (CS)*	Henderson, N. C.
Gregg, S. D. (CS)	Hemingway
Gregory, J. E. (CS)	Santuck
Gregory, J. V. (CS)	Jefferson
Griffin, J. F. (Unc)	Six Mile
Griffin, Robert W. (CS)	Florence
Griffin, R. Warner (CS)	Laneaster
Griggs, G. B. (CS)	Travelers Rest
Grindley, W. C. (CS)	Beaufort
Grishaw, W. E. (CS)	Clemson
Guest, M. E. C. (G)	Marietta
Gurley, L. G. (CS)	Goldsboro, N. C.
Guy, W. L. (CS)	Marion
Gwinn, J. H. (CS)	Liberty
Hadley, H. W. (CS)	Washington, D. C.
Hagelston, P. J. (CS)	Aiken
Hall, D. M. (G)	Fredericksburg, Va.
Hall, G. M. (CS)	Forest City, N. C.
Hall, R. L. (CS)	Liberty
Hamilton, W. J. (CS),	Hendersonville, N. C.
Hammaek, T. L. (CS)	Greenville
Hammett, M. D. (G)	Anderson
Hammett, M. G. (G)*	Cowpens
Hammond, M. C. (Unc)*	Central
Hammond, N. L. (Unc)*	Inman
Hanna, M. G. (CS)	Greenwood
Hannah, J. L. (CS)	Piedmont
Harakas, A. G. (CS)	Greenville
Harbeson, C. E. (CS)	North Charleston
Hardee, F. A. (CS)	Greeleyville
Hardwick, J. O. (CS)	Florence
Hardy, K. M. (CS)	Westminster
Hare, R. L. (CS)	Ward
Harkey, M. G. (G)	Fort Mill
Harmstad, F. A. (CS)	Aiken
Harper, A. W. (CS)*	Lancaster
Harper, J. C. (CS)	Martin
Harper, S. J. (CS)	Andrews
Harris, H. L. (CS)	Sumter
Harrison, B. M. (CS)	Williamston
Harrison, E. R. (G)	Toccoa, Ga.
Harrison, M. M. (Unc)	Seneca
Harrop, J. B. (CS)	Charlotte, N. C.
Harry, J. A. (CS)	Grover, N. C.
Hart, G. P. (G)	Walhalla
Hart, J. W. (CS)	Elmhurst, N. Y.
Hartzog, J. V. (G)	Reevesville
Harvey, C. H. (CS)	Summerville
Harvey, F. V. (CS)	Beaufort
Harvey, J. W. (CS)	Pacolet Mills
Harvin, J. L. (CS)	Walhalla
Harvin, L. C. (CS)	Columbia
Haskell, R. H. (CS)	Summerville
Hattaway, C. T. (CS)	Newberry
Hawkins, W. W. (CS)	Greenville
Hayslip, C. C. (G)	Spartanburg
Heimlich, S. S. (G)	Timmonsville
Henderson, T. W. (CS)	Greenwood
Henderson, W. E. (CS)	Greenville
Hendricks, A. T. (CS)	Columbia
Hendrieks, M. G. (CS)	Pickens
Hendrix, T. C. (CS)	Charlotte, N. C.
Henson, J. L. (G)	Greenville
Herman, R. C. (CS)	Greenwood
Herrin, G. R. (CS)	Charleston
Herron, R. P. (CS)	Starr
Hester, C. W. (CS)	Clemson
Hicks, D. W. (CS)	Gaffney
Hightower, J. L. (CS)	Bamberg
Hill, R. P. (CS)	Gastonia, N. C.
Hilla, A. P. (CS)	Belleville, N. J.
Hilley, D. R. (CS)	Calhoun Falls

Name and Course	*Address*
Hillhouse, R. T. (CS)	Anderson
Himiob, Alfredo (CS)	Washington, D. C.
Hines, R. B. (CS)	Fairforest
Hinson, L. L. (CS)	Nichols
Hitner, S. I. (CS)	Travelers Rest
Hoefer, R. F. (CS)	Gainesville, Ga.
Holden, E. M. (G)	Landrum
Holland, A. C. (G)*	Clemson
Holland, L. R. (Unc)*	Anderson
Holmes, T. E. (CS)*	Greenville
Holt, T. R. (CS)	Nesmith
Honeycutt, R. L. (CS)*	Florence
Hood, R. E. (CS)	Brunswick, Ga.
Hoover, J. H. (CS)	Cheraw
Hopkins, M. S. (CS)*	Pendleton
Horton, E. V. (G)	Dillon
Horton, F. H. (G)	Kingstree
Horton, N. A. (CS)	Rock Hill
Hough, O. M. (CS)	Charlotte, N. C.
Hough, W. E. (CS)	Chesterfield
Houston, J. M. (CS)	Franklin, N. C.
Howard, K. R. (Unc)*	Isle of Palms
Howard, L. L. (Unc)	Seneca
Hudgens, J. H. (G)*	Orangeburg
Hudgens, M. E. (G)*	Orangeburg
Hudson, E. C. (CS)	Charlotte, N. C.
Huffman, J. O. (CS)	Greenville
Huffman, W. J. (G)	Morgantown, W. Va.
Huggins, D. J. (CS)	Branchville
Hughes, P. K. (CS)	Westminster
Hughes, R. W. (CS)	Beech Island
Hughes, W. D. (CS)	Seneca
Hughs, Catherine (G)*	Walhalla
Hull, J. S. (CS)	Westminster
Humphreys, Christine (G)*	Orangeburg
Hunt, R. O. (CS)	Atlanta, Ga.
Hunt, T. A. (CS)	York
Hunt, W. A. (CS)	North Charleston
Hunter, G. C. (CS)	Norway
Hunter, G. F. (CS)	Gallatin, Tenn.
Hunter, J. C. (G)*	Norway
Hurst, E. H. (CS)	Greenville
Hutto, C. F. (CS)	Walterboro
Isaac, R. A. (G)	Georgetown
Ivester, R. H. (CS)	Newberry
Jackson, D. E. (CS)	Laurens
Jackson, H. B. (CS)	North Charleston
Jacobs, L. G. (CS)	Charlotte, N. C.
Jacques, J. W. (CS)	Charleston
Jamerson, H. B. (CS)	Orlando, Fla.
James, D. R. (CS)*	Clemson
James, G. R. (CS)	Liberty
James, W. K. (G)	Galivants Ferry
Jameson, R. A. (G)	Liberty
Jameson, R. B. (Unc)	Iva
Jameson, R. D. (CS)	Jackson, N. C.
Jarrett, L. W. (CS)*	Toccoa, Ga.
Jastremski, J. M. (CS)	Baltimore, Md.
Jeffcoat, D. E. (CS)	Fairfax
Jeffcoat, L. H. (CS)	Hampton
Jennings, V. J. (CS)	Warrenville
Jennings, W. J. (G)*	Charlotte, N. C.
Jeter, D. G. (G)*	Ware Shoals
Johnson, E. G. (Unc)	Walhalla
Johnson, F. A. (CS)	Greenville
Johnson, G. L. (CS)	Greenwood
Johnson, K. W. (CS)	Chesterfield
Johnson, T. D. (CS)	Midland, Mich.
Johnston, O. C. (CS)	Rock Hill
Johnston, W. G. (CS)	Columbus, Ga.
Jones, A. L. (CS)	Tryon, N. C.
Jones, J. R. (CS)	Greenville
Jones, J. S. (CS)	Cameron
Jones, S. H. (CS)	Sumter
Jones, W. E. (CS)	Charlotte, N. C.
Jordan, J. A. (CS)	Anderson
Jordan, Lawson (CS)	Mullins

Name and Course	*Address*
Jordan, W. K. (CS)	Olanta
Jowers, H. C. (CS)	Spencer, N. C.
Julian, J. A. (CS)	Central
Jumper, W. C. (CS)	North Augusta
Kaminky, D. H. (CS)	Chicago, Ill.
Karney, R. E. (CS)	Covington, Tenn.
Kay, L. J. (Unc)*	Clemson
Kay, L. S. (CS)	Ware Shoals
Kay, W. D. (CS)	Anderson
Keaton, S. H. (CS)	Abbeville
Keel, L. D. (CS)	Bamberg
Kellett, W. B. (CS)	Belton
Kelley, F. S. (Unc)	Central
Kelley, J. D. (CS)	Central
Kelley, R. B. (G)	Anderson
Kelley, W. H. (CS)	Isle of Palms
Kelly, J. W. (G)	Clemson
Kennedy, P. R. (CS)	Greenville
Kent, H. D. (CS)	Rocky Ford, Ga.
Keys, R. A. (Unc)	Anderson
Khe, C. V. (CS)	Saigon, Vietnam
Kight, J. J. (CS)	Savannah, Ga.
Kilcline, F. W. (CS)	Savannah, Ga.
Kinard, G. C. (CS)	Prosperity
King, A. A. (Unc)*	Greenville
King, C. B. (CS)	Loris
King, R. F. (CS)	Anderson
King, S. H. (G)	Anderson
Kingsbury, W. W. (CS)	New Canaan, Conn.
Kingsmore, K. H. (CS)	Buffalo
Kirby, E. S. (Unc)*	St. George
Kirby, R. E. (CS)	Union
Kirby, W. D. (CS)	St. George
Kirkley, R. S. (CS)	Central
Kirven, H. C. (G)	St. Charles
Kistler, G. E. (CS)	Charlotte, N. C.
Kitching, F. J. (G)	Anderson
Kitching, L. A. (G)	Anderson
Kizer, C. G. (CS)	St. George
Kizer, W. E. (CS)	St. George
Kline, J. C. (CS)	Columbia
Koon, H. E. (CS)	Florence
Kortan, J. F. (CS)*	Charleston
Krajack, E. T. (CS)	McKeesport, Pa.
Krapf, D. W. (CS)*	Pickens
Krieger, R. G. (CS)	Washington, D.C.
Kuemmerer, F. G. (Unc)*	Walhalla
Lackey, C. S. (CS)	Central
Lackey, G. T. (G)*	Macon, Ga.
Lafaye, A. B. (CS)*	Columbia
LaGrone, Linda (Unc)*	Clemson
Laidlaw, T. A. (CS)	Jacksonville, Fla.
Laitala, E. E. (Unc)*	Clemson
Lamkin, L. E. (CS)	Lenoir, N. C.
Lance, R. L. (CS)	Fresno, Calif.
Landron, J. M. (CS)*	Santurce, P. R.
Lane, T. L. (G)	Johnsonville
Laney, C. C. (CS)	Bishopville
Laney, J. T. (CS)	Camden
Lang, M. M. (G)*	Ehrhardt
Langdale, G. W. (G)	Clemson
Langdon, C. H. (CS)	Clemson
Lange, R. O. (CS)*	Ft. Geo. Meade, Md.
Langley, B. R. (CS)	Greenville
Langley, G. L. (CS)	Andrews
Langston, J. M. (CS)	North Augusta
Lavelle, J. M. (CS)	Charleston
Lawrence, C. R. (CS)	Central
Lawrimore, C. B. (CS)	Barnwell
Lawson, D. L. (CS)	Charlotte, N. C.
Lawson, T. G. (CS)	Chester
Lawton, R. E. (CS)	Carlisle Barracks, Pa.
Lazenby, W. B. (CS)	Greenville
Leach, D. P. (CS)	Anderson
Leaird, C. H. (CS)	Jefferson
Leaptrott, W. M. (CS)—	Ponte Vedra Beach, Fla.

Name and Course	*Address*
Lee, C. K. (CS)	Hong Kong
Lee, H. C. (Unc)°	Clemson
Lee, R. E. (CS)	North Augusta
Lee, S. C. (CS)	Alcolu
LeFevre, A. D. (Unc)°	Clemson
LeFevre, W. H. (CS)	Easley
Leibrock, F. R. (CS)	Newport, Tenn.
Leland, H. M. (G)	McClellanville
Lemacks, M. E. (CS)	Ravenel
Lenardis, P. A. (G)°	Clemson
Leshock, J. J. (CS)	Greensburg, Pa.
Leslie, J. L. (CS)	Abbeville
Lever, J. P. (CS)°	Clemson
Lewis, L. L. (G)	Leesville
Lewis, L. R. (CS)	North Plainfield, N. J.
Lewis, V. G. (Unc)	Mt. Pleasant
Liberty, V. E. (CS)	Clemson
Lilly, W. T. (CS)	Ca-Vel, N. C.
Lindell, B. S. (CS)	Wilmington, Del.
Lindsay, F. E. (CS)	Anderson
Lindsay, J. E. (CS)	Gastonia, N. C.
Lindsay, J. T. (CS)	Clemson
Lindsey, J. N. (CS)	Lanett, Ala.
Lipscomb, A. E. (Unc)	Walhalla
Little, G. E. (CS)	Hartsville
Lloyd, J. C. (CS)°	Edgefield
Lollis, F. W. (CS)	Honea Path
Lominack, T. J. (CS)	Greer
Long, B. L. (Unc)°	Walhalla
Long, D. L. (CS)	Newberry
Long, M. A. (G)	Due West
Long, W. E. (CS)	Shelby, N. C.
Longmeyer, R. D. (CS)	Shelby, N. C.
Looper, T. M. (G)	Townville
Lopez, V. A. (CS), San Salvador, El Salvador	
Lott, J. E. (CS)	North Augusta
Lott, L. B. (CS)	Greenville
Love, M. L. (G)°	Gaffney
Lovell, J. R. (CS)	Liberty
Lovett, Wilson (G)	Green Sea
Lowery, Z. A. (Unc)°	Seneca
Lyles, R. J. (Unc)	Toccoa, Ga.
Lyles, R. T. (CS)	Columbia
McAlister, D. D. (CS)	Walhalla
McCarter, T. M. (CS)	Piedmont
McCauley, J. H. (CS)	Greenville
McClain, J. B. (CS)°	Anderson
McClain, W. R. (CS)	Asheville, N. C.
McClure, Christopher (Unc)°	Clemson
McCollum, J. W. (CS)	Easley
McConnell, E. H. (CS)	Rock Hill
McCormick, R. W. (CS)	Lexington
McCown, J. R. (CS)	Anderson
McCracken, M. N. (CS)	Asheville, N. C.
McCrary, D. M. (CS)	Greenville
McCraw, E. M. (Unc)°	Sandy Springs
McCulloch, J. W. (CS)	Gaffney
McCullough, L. E. (CS)	Newberry
McCurry, B. H. (CS)	West Union
McDaniel, G. E. (CS)	Columbia
McDaniel, G. T. (CS)	Carlisle
McDaniel, W. B. (CS)	Chesnee
McDill, J. W. (Unc)°	Due West
McDonald, M. L. (CS)	Greenville
McDonough, J. F. (CS)°—	McMinnville, Tenn.
McDougald, B. A. (CS)°	Cheraw
McElmurray, J. H. (CS)	Aiken
McElmurray, W. W. (CS)	North Augusta
McElveen, R. F. (CS)	Kingstree
McGee, J. H. (CS)	Union
McGee, R. G. (CS)	Clinton
McGill, J. N. (CS)	Anderson
McGill, L. N. (CS)	Anderson
McGill, S. M. (CS)	Anderson
McGregor, K. A. (G)°	Anderson
McGregory, R. R. (G)°	Anderson
McGrew, R. O. (G)	Camden
McGuirt, W. D. (CS)	Lancaster
McKay, W. S. (CS)	Pittsburgh, Pa.
McKellar, F. M. (G)°	North Augusta
McKenzie, A. B. (CS)	Lake City
McKinley, J. M. (G)	Anderson
McKinney, C. L. (G)	Easley
McKinney, J. T. (CS)	Anderson
McLaurin, D. B. (CS)	Dillon
McLellan, G. R. (CS)	Dillon
McLeod, J. L. (CS)	Manning
McLeod, K. R. (G)	Loris
McManus, R. V. (CS)	Lancaster
McManus, S. P. (G)	Greer
McMeekin, S. C. (CS)	Columbia
McMillan, E. C. (CS)°	Clemson
McMullan, T. P. (CS)	Miami, Fla.
McNatt, C. C. (G)	Clemson
McPherson, D. J. (CS)	Cheraw
McQueen, S. B. (CS)	Galivants Ferry
McQuistion, H. R. (CS)	North Augusta
McSwiney, T. L. (CS)	Jacksonville, Fla.
McTeer, Herbert (CS)	Walterboro
McTeer, P. C. (Unc)	Clemson
McWhorter, M. A. (Unc)°	Easley
Macanga, R. J. (CS)	Essex Fells, N. J.
Macewen, D. A. (CS)	Greenville
Mack, K. B. (G)	Gaston
Mackey, R. H. (CS)	Pisgah Forest, N. C.
Madden, M. W. (G)	Clemson
Maddox, R. B. (CS)	Anderson
Magill, R. V. (CS)	Greenville
Mahaffey, D. H. (CS)	La Grange, Ga.
Mahaffey, G. T. (CS)	La Grange, Ga.
Mandy, J. A. (CS)	Brooklyn, N. Y.
Maness, L. R. (G)	Avon Park, Fla.
Marchman, R. D. (G)°	Jacksonville, Fla.
Marett, C. S. (Unc)°	Anderson
Martin, C. D. (Unc)°	Liberty
Martin, D. B. (CS)	Anderson
Martin, L. D. (CS)	Union
Martin, W. C. (Unc)	Clinton
Martin, W. E. (CS)	Greenville
Mason, R. E. (CS)	Charlotte, N. C.
Mathews, E. A. (Unc)	Clemson
Mathis, W. H. (CS)	Manchester, Ga.
Matthews, C. W. (CS)	Balfour, N. C.
Matthews, G. M. (CS)	Lincolnton, Ga.
Mauldin, J. A. (CS)	Six Mile
Mauldin, J. L. (CS)	Clemson
Maxie, B. M. (Unc)°	Greenwood
May, R. C. (CS)	Rock Hill
Meares, H. T. (CS)	McBee
Mears, G. A. (CS)	Asheville, N. C.
Medlen, E. A. (Unc)°	Columbia
Meeks, J. T. (Unc)°	Anderson
Meetze, J. H. (CS)	Columbia
Melton, R. C. (CS)	Charleston
Merck, H. L. (CS)	Central
Merritt, E. B. (CS)	Piedmont
Metro, F. G. (G)	Tampa, Fla.
Mewborn, M. G. (CS)	Anderson
Middleton, M. W. (G)	Williamston
Miler, G. G. (CS)	Summerville
Miley, M. E. (Unc)°	Walhalla
Miley, P. G. (CS)	Brunson
Miller, A. H. (G)	Spartanburg
Miller, D. K. (CS)	Salters
Miller, R. A. (Unc)°	Clemson
Miller, S. J. (G)	Belton
Miller, W. T. (CS)	Rock Hill
Mills, C. L. (CS)	Gloverville
Mobley, G. J. (CS)	Kershaw
Montjoy, C. T. (CS)°	Robbins, N. C.
Moody, H. G. (CS)	San Francisco, Calif.
Moore, D. G. (CS)	Olanta
Moore, G. R. (CS)	Greenwood
Moore, J. F. (CS)	Canton, N. C.
Moore, R. S. (CS)	Asheville, N. C.
Moore, T. C. (CS)	Murphy, N. C.
Moore, W. H. (CS)	Charleston Heights

Name and Course — *Address*

Moore, W. L. (CS)* .... Mockville, N. C.
Moorhead, J. L. (CS) .... Laurens
Morgan, C. F. (CS) .... Pendleton
Morgan, E. T. (CS) .... Springfield
Morgan, J. C. (CS) .... Walhalla
Morgan, J. H. (CS) .... Whitney
Morgan, J. R. (CS) .... Greenville
Morgan, R. L. (CS)—
New Martinsville, W. Va.
Morris, G. W. (G)* .... Festus, Miss.
Morrison, J. S. (CS) .... Hartsville
Morrow, B. F. (G)* .... Waynesville, N. C.
Moser, R. N. (CS) .... Sarver, Pa.
Moser, R. W. (CS) .... Chester
Mozen, H. T. (CS) .... Darlington
Muckenfuss, G. E. (CS) .... Summerville
Mullikin, H. M. (CS) .... Anderson
Mullinax, D. E. (CS) .... Central
Mullins, S. L. (G) .... Moore
Murph, J. M. (CS) .... Greenwood
Murph, Michael (CS) .... Spartanburg
Murphy, J. M. (CS) .... Charleston Heights
Murray, J. C. (CS) .... Edisto Island
Murray, R. E. (CS) .... Toccoa, Ga.
Murray, W. M. (CS) .... St. George
Myers, D. S. (CS) .... Barnwell
Myers, G. E. (CS) .... Lynchburg
Myers, J. H. (CS) .... Greenville
Myers, L. E. (CS) .... Seneca
Myers, R. E. (CS) .... Lynchburg

Nash, N. L. (G)* .... Central
Nasim, Mohammed (CS) .. Lahore, Pakistan
Neel, H. J. (G) .... Clemson
Neild, Charles (CS) .... Greenville
Neill, C. G. (Unc)* .... Anderson
Nelson, F. H. (G)* .... Harleyville
Nelson, J. W. (G)* .... Westminster
Nelson, P. B. (CS), St. Petersburg B'ch, Fla.
Nelson, R. G. (PG) .... Greenville
Nettles, A. R. (G)* .... Florence
Newman, Q. B. (CS) .... Clemson
Newton, H. H. (CS) .... Central
Newton, J. M. (CS) .... Clemson
Newton, L. P. (CS)* .... Clemson
Newton, R. N. (CS) .... Clemson
Newton, S. A. (CS) .... Clemson
Nichols, F. P. (CS) .... Greenville
Nicholson, J. E. (CS) ...... Ware Shoals
Nickles, J. L. (CS) .... Seneca
Nickless, T. V. (CS) .... Clemson
Nimmons, R. B. (CS) .... Anderson
Nivens, D. M. (CS) .... Spartanburg
Nixon, C. J. (CS) .... Belmont, N. C.
Nobles, F. E. (CS) .... Georgetown
Norton, C. C. (CS) .... Dillon
Norwood, C. C. (CS) .... Florence
Novak, J. D. (CS) .... Columbia
Nunnery, C. O. (Unc) .... Rock Hill

O'Barr, M. H. (CS) .... Anderson
O'Brien, R. E. (CS) .... Landrum
O'Cain, R. K. (CS) .... Orangeburg
Oeland, P. J. (CS) .... Greenville
Ogden, J. W. (CS) .... Florence
Ogletree, B. D. (CS)* .... Jonesville
Oliver, M. S. (CS) .... Ruby
Olson, H. V. (CS) .... Decatur, Ga.
O'Neal, D. B. (CS) .... Mullins
O'Neal, R. M. (CS)* .... Anderson
Orr, J. L. (Unc)* .... Pendleton
Orr, J. R. (CS) .... Greenville
Osbon, A. D. (CS) .... Aiken
Osborne, R. P. (CS) ...... Cleveland, Ga.
O'Shields, G. H. (CS) .... Clinton
Osteen, W. G. (CS) .... Greenville
Ostendorff, E. M. (CS) ...... Charleston
Oswald, E. G. (CS) .... Allendale
Ott, K. R. (CS) .... Savannah, Ga.
Owen, J. W. (CS) .... Norris

Name and Course — *Address*

Owen, P. S. (G) .... Liberty
Owens, D. H. (CS) .... Greenville
Owens, P. H. (CS) .... Fletcher, N. C.
Owings, A. L. (CS)* .... Clemson
Oxner, J. E. (CS) .... Newberry

Padgett, L. G. (CS) .... Buffalo
Page, T. K. (CS) .... Sumter
Papastathis, Dimitry (CS) .. Athens, Greece
Parham, D. E. (CS) .... Bamberg
Parish, G. A. (CS) .... Yonges Island
Parker, C. V. (Unc) .... Seneca
Parker, J. M. (CS) .... Havertown, Pa.
Parker, J. R. (G)* .... Bradenton, Fla.
Parkins, R. A. (CS) .... Greenville
Parsons, J. F. (CS) .... Decatur, Ga.
Parsons, J. W. (G) .... Clemson
Parsons, K. D. (CS) .... Georgetown
Parsons, S. A. (CS) .... Georgetown
Pasqualini, C. V. (G) .... Clemson
Pate, C. E. (CS) .... Greenwood
Pate, R. M. (CS) .... Hartsville
Patten, F. C. (CS) .... Timmonsville
Patterson, D. O. (CS) ...... Augusta, Ga.
Patterson, M. O. (G)* .... Abbeville
Patterson, W. J. (CS) .... Greenville
Patton, P. E. (CS) ...... Charlotte, N. C.
Pavilack, Harold (CS) ...... Pittsburgh, Pa.
Payne, H. D. (CS) .... Clinton
Pearce, J. P. (CS) .... Dillon
Pearson, W. F. (CS) .... Denmark
Peay, J. B. (CS) .... Bennettsville
Peay, J. W. (G)* .... Jonesville
Peek, R. E. (CS) .... Charleston
Peeples, Nathaniel (CS) ...... Charleston
Pennington, A. D. (Unc)* .... Starr
Perna, A. J. (G) .... Brooklyn, N. Y.
Perritt, P. E. (CS) .... Cheraw
Peterson, C. H. (CS) .... New York, N. Y.
Peterson, T. F. (CS)* ...... Savannah, Ga.
Phillips, J. B. (CS) .... Fort Mill
Phillips, R. P. (CS) .... Greenville
Phillips, R. W. (Unc) .... Walhalla
Phillips, W. D. (CS)* .... Anderson
Phipps, D. P. (CS) .... Columbia
Plyler, G. M. (CS)* .... Lancaster
Poe, B. H. (Unc) .... Clemson
Poe, S. E. (CS) .... Brunson
Ponder, H. M. (Unc) .... Easley
Ponder, W. M. (Unc) .... Easley
Poole, R. E. (CS) .... Florence, Ala.
Porter, R. D. (CS) .... Pickens
Poston, M. L. (G) .... Pamplico
Poteat, D. W. (CS) .... Charleston Heights
Potts, R. O. (G) .... Fort Mill
Powell, M. P. (CS) .... Mullins
Powell, R. L. (CS) .... Tampa, Fla.
Prater, M. R. (CS)* .... Seneca
Preston, D. W. (CS) .... Tryon, N. C.
Preston, J. M. (CS) .... Tryon, N. C.
Prince, R. F. (CS) .... Laurens
Pruden, D. M. (CS) .... Lugoff
Pruett, J. E. (CS) .... Drayton
Pruitt, D. D. (CS) .... Campobello
Puckett, J. D. (CS) .... Seneca
Putnam, B. R. (CS) .... Charleston

Quarles, B. E. (G)* .... West Union
Quattlebaum, A. M. (CS) ...... Florence

Rabasa, G. A. (CS) .. Mexico, D. F., Mexico
Rackley, E. C. (CS)* .... Seneca
Ragin, J. J. (CS) .... Rock Hill
Rainey, N. F. (Unc)* .... Lynchburg, Va.
Ramey, H. E. (CS) .... Walhalla
Ramey, R. L. (CS) .... Inman
Ramirez, Danilo (CS) .. Marcay, Venezuela
Randall, R. H. (G) .... Monetta
Rankin, R. W. (Unc)* .. Washington, D. C.
Rasmussen, R. W. (CS) ... Annandale, Va.
Ratterree, P. C. (CS) .... Rock Hill

Name and Course	*Address*
Reddall, T. T. (G)	Easley
Redmond, K. C. (CS)	Central
Reeves, D. A. (CS)	Reevesville
Reeves, W. W. (G)*	Abbeville
Reid, H. W. (G)	Spartanburg
Reid, S. H. (Unc)*	Pendleton
Renwick, H. M. (CS)	Winnsboro
Rice, E. C. (CS)	Plum Branch
Rice, E. K. (CS)	Bamberg
Rice, R. R. (CS)	Anderson
Rice, T. M. (CS)	Bowman, Ga.
Rice, W. C. (Unc)	Buffalo
Rice, W. H. (CS)	Greenville
Richardson, B. L. (G)	Newberry
Richardson, F. L. (CS)	Lancaster
Richardson, H. W. (CS)	Seneca
Richardson, J. G. (CS)	Greenville
Richardson, M. B. (G)	Clemson
Richbourg, D. R. (Unc)*	Clemson
Riddle, C. C. (Unc)*	Greenville
Riddle, O. L. (CS)	Seneca
Ridings, D. F. (CS)*	Kingsport, Tenn.
Rij, R. E. (G)*	Bronx, N. Y.
Ringold, M. S. (CS)	Clemson
Rishel, E. B. (CS)	Greenville
Risko, M. A. (Unc)*	Pickens
Ritchie, M. A. (Unc)*	Columbia
Roache, C. E. (CS)	Pelzer
Robertson, R. E. (CS)	Laurens
Robertson, T. M. (CS)	Spartanburg
Robinson, A. B. (G)*	Anderson
Robinson, G. L. (CS)	Clemson
Robinson, H. H. (CS)	Chester
Robinson, R. M. (CS)	Clemson
Robinson, R. N. (CS)	Belleville, N. J.
Roche, T. G. (CS)	Gaffney
Rochester, E. W. (CS)*	Greenville
Rochester, F. D. (CS)	Salem
Rochester, P. S. (Unc)	Clemson
Rock, O. H. (CS)	Rock Hill
Rodgers, D. T. (CS)	Greenville
Roeder, L. H. (Unc)	Pendleton
Rogers, F. B. (CS)	Pelzer
Rogers, J. D. (CS)	Williamston
Rogers, L. M. (CS)	Pelzer
Rogers, W. J. (G)*	Pelzer
Rosamond, H. D. (CS)	Greenville
Rose, G. S. (CS)	Camden
Rourk, J. C. (CS)*	Charleston
Rozier, C. M. (G)	Lake View
Rugheimer, J. P. (CS)	Charleston
Rutherford, J. S. (CS)	Charlotte, N. C.
Salley, R. J. (G)*	Orangeburg
Sanders, C. R. (CS)	Charleston
Sanders, H. L. (CS)	Blacksburg
Sanders, J. P. (CS)	Yonges Island
Sanders, L. O. (CS)*	Pendleton
Sanders, R. M. (CS)	Westminster
Sanders, W. M. (CS)	Anderson
Sandlin, G. T. (G)	Anderson
Sanko, George (G)	Aiken
Satterfield, J. W. (CS)	Walhalla
Sauls, E. T. (G)	Orangeburg
Schirmer, F. B. (CS)	Clemson
Schoonmaker, Richard (CS),	Charlotte, N. C.
Schumacher, P. D. (CS)	Thomaston, Ga.
Scott, R. E. (CS)	Fairforest
Scurry, R. E. (CS)	Sumter
Seawright, J. A. (CS)	Ware Shoals
Seay, C. L. (CS)	Columbia
Seigler, C. D. (Unc)*	Anderson
Seigler, M. V. (G)	Walhalla
Seitz, L. K. (CS)	Morrisonville, Ill.
Sellers, W. H. (CS)	West Columbia
Sells, H. E. (CS)	Myrtle Beach
Serrano, Santiago (CS)	Quito, Ecuador
Shah, S. H. (CS)	Bombay, India
Shane, J. R. (CS)	Florence
Shankle, N. H. (CS)	Mount Gilead, N. C.

Name and Course	*Address*
Shannon, W. H. (CS)	Blackstock
Shaw, B. S. (CS)	Sumter
Shealy, R. W. (CS)	Batesburg
Shelton, Teresa (G)*	Spartanburg
Sherer, J. E. (CS)	Rock Hill
Sherman, J. E. (CS)	Clemson
Shieder, J. W. (CS)	Grover
Shirley, D. F. (CS)	Cateechee
Shirley, J. G. (G)	Piedmont
Shirley, T. W. (CS)	Greenville
Sikes, R. C. (CS)	Savannah, Ga.
Simpson, D. C. (CS)	Anderson
Simpson, R. T. (CS)	Winnsboro
Simpson, W. S. (CS)	Iva
Sims, J. N. (CS)	Greenville
Skardon, S. G. (CS)*	Clemson
Skelton, R. E. (CS)	Greenville
Skillman, T. M. (G)	Clemson
Skinner, T. L. (Unc)*	Lyman
Sloan, A. T. (CS)	Spartanburg
Sloan, J. W. (CS)	West Columbia
Small, R. D. (CS)	Greenville
Smalley, R. L. (CS)	Gaffney
Smarr, R. G. (CS)	Columbia
Smith, B. D. (CS)	Bishopville
Smith, C. D. (G)	Rome, Ga.
Smith, E. H. (G)*	Sudlersville, Md.
Smith, E. R. (CS)	Clemson
Smith, E. W. (CS)	Atlanta, Ga.
Smith, F. H. (CS)	Ballentine
Smith, G. G. (CS)	Ashland, Va.
Smith, G. O. (G)	Greer
Smith, G. R. (CS)	Anderson
Smith, H. A. (G)	Clemson
Smith, H. L. (G)	Clemson
Smith, J. H. (CS)	Belton
Smith, J. M. (CS)	Westminster
Smith, K. W. (CS)	Shaw AFB
Smith, N. R. (CS)	Miami, Fla.
Smith, R. D. (CS)	Liberty
Snavely, J. T. (CS)	Anderson
Snow, G. H. (G)	Clemson
Sok, B. A. (CS)	Chicago, Ill.
Spangler, P. E. (CS)	Wyncote, Pa.
Spencer, J. M. (CS)*	Pickens
Speth, E. B. (CS)	Augusta, Ga.
Spivey, J. A. (CS)	Salters
Spivey, P. E. (CS)	Charleston
Spratt, S. N. (CS)	Greenville
Springs, W. B. (CS)	Cameron
Sprouse, D. W. (CS)	Slater
Stanley, T. G. (CS)	Hampton
Staples, R. G. (CS)	Abbeville
Stapleton, F. H. (CS)	Augusta, Ga.
Starcher, B. G. (G)*	Hobbs, New Mexico
Starnes, G. K. (G)	Hemingway
Starr, E. J. (G)*	Clemson
Starr, G. F. (G)	Charleston Heights
Stasney, S. G. (CS)	Greenville
Steedly, J. R. (CS)	Bamberg
Stephens, A. E. (CS)	Laurens
Stephens, J. E. (Unc)	Central
Stephens, L. R. (CS)	Reading, Pa.
Stephenson, K. E. (CS)	Gastonia, N. C.
Steppe, G. G. (CS)	Brevard, N. C.
Stevens, R. A. (CS)	Clemson
Stewart, J. C. (CS)	Gastonia, N. C.
Stewart, R. C. (CS)	Pickens
Stinetorf, R. H. (CS)	Macon, Ga.
Stockel, R. F. (G)	Atlanta, Ga.
Stockman, R. J. (CS)	Clemson
Stone, J. D. (Unc)	Johnsonville
Stoudenmire, A. G. (CS)	Anderson
Stover, L. A. M. (CS)	Greenville
Stribling, J. L. (Unc)	Clemson
Stribling, Maralouise (Unc)	Clemson
Strickland, T. M. (CS)	Charleston
Stuart, M. A. (Unc)*	Clemson
Stuart, W. F. (CS)	Greenville
Stuckey, G. L. (CS)	Columbia

Name and Course	*Address*
Stukes, R. E. (CS)	Summerton
Sullivan, H. P. (Unc)*	Sarasota, Fla.
Sullivan, J. F. (CS)	Clemson
Sumerel, W. M. (CS)	Laurens
Sutherland, F. N. (G)*	Abbeville
Sutherland, Lawrence (Unc)*	Belton
Sutherland, M. M. (Unc)	Clemson
Swann, W. R. (Unc)*	York
Sykes, W. I. (CS)	Gainesville, Ga.
Tanksley, W. T. (CS)	Seneca
Tant, L. R. (CS)	Clemson
Tarbox, D. P. (CS)	Clemson
Taylor, E. M. (CS)	Kershaw
Taylor, J. R. (CS)	Cateechee
Taylor, J. T. (CS)	Winnsboro
Taylor, R. E. (CS)*	Charlotte, N. C.
Taylor, R. J. (CS)	Manning
Taylor, R. O. (G)*	Newark, Del.
Taylor, W. R. (G)	Kershaw
Tedder, W. R. (CS)	Savannah, Ga.
Temple, R. D. (CS)	Mt. Pleasant
Templeton, R. E. (CS)	Ninety Six
Terry, G. R. (CS)	Anderson
Terry, J. D. (CS)	Anderson
Thiemann, E. F. (CS)*	Sarver, Pa.
Thomas, J. D. (CS)	Ulmers
Thomas, J. M. (CS)	Greenville
Thomas, R. M. (CS)	Chesterfield
Thompson, L. M. (Unc)	Central
Timbes, L. C. (CS)	Conway
Timmerman, W. P. (CS)	Hartsville
Todd, T. D. (CS)*	Aiken
Tolin, W. T. (CS)	Maysville, N. C.
Tollison, T. M. (CS)	Greenville
Tomlin, R. B. (G)	Walhalla
Touchstone, R. W. (CS)	Anderson
Townsend, J. L. (CS)	Orangeburg
Trammell, J. D. (CS)	Greenville
Trotman, W. D. (CS)	Syracuse, N. Y.
Truluck, C. E. (CS)	Charleston
Tucker, D. J. (CS)	Williamston
Turner, C. M. (CS)	Barnwell
Turner, F. H. (CS)	Columbia
Twells, R. B. (CS)	Fostoria, Ohio
Tyler, W. W. (CS)	Atlanta, Ga.
Underwood, J. A. (CS)	Greenwood
Valdes, S. G. (CS)	Caracas, Venezuela
Valentine, B. M. (CS)	Jackson
Vanadore, W. J. (CS)	Easley
Vannoy, K. C. (CS)	Charleston
Vaughan, B. A. (CS)	Union
Vaughn, D. E. (CS)	Baltimore, Md.
Vehorn, R. M. (CS)	Cheraw
Velazquez, V. A. (CS)	Havana, Cuba
Vickery, R. O. (CS)	Columbia
Vinson, D. J. (CS)	Chester
Vinson, L. R. (CS)	Seneca
Vorus, W. S. (CS)	Atlanta, Ga.
Walker, H. W. (CS)	Hopkins
Walkup, J. B. (G)	Sandy Springs
Wallace, B. C. (CS)	Ora
Wallace, D. A. (CS)	Spartanburg
Wallace, J. B. (CS)	Clover
Walls, W. A. (CS)	Aiken
Walsh, M. E. (CS)	Hendersonville, N. C.
Ward, H. P. (G)	Georgetown
Warren, D. M. (CS)	Martin
Washington, J. R. (CS)	Clemson
Wasmer, W. P. (CS)	Glennville, Ga.
Watkins, K. A. (CS)	Taylors
Watkins, S. S. (G)*	Anderson
Watson, A. C. (CS)	Wolfton
Watson, B. R. (CS)	West Columbia
Weeks, C. J. (CS)	Florence
Weichel, F. P. (CS)	Atlanta, Ga.

Name and Course	*Address*
Weinberg, S. G. (CS)	Sumter
Welborn, J. H. (CS)	Pelzer
Welborn, W. N. (CS)	Anderson
Wells, R. D. (CS)	Abbeville
Wells, W. B. (CS)	Columbia
Werntz, E. J. (CS)	Albany, Ga.
West, A. L. (CS)	Travelers Rest
West, E. C. (CS)	Kershaw
West, R. D. (CS)	Gramling
Westbury, C. E. (CS)	Murrells Inlet
Wetzel, C. B. (CS)	Indiana, Pa.
Weyman, J. K. (CS)	Chatsworth, Ga.
Wheeler, T. C. (CS)	Washington, D. C.
Whelchel, D. C. (G)	Orlando, Fla.
Whelchel, G. C. (CS)*	Gaffney
Whelchel, H. W. (CS)	Gaffney
White, B. M. (CS)	Greenville
White, H. M. (G)	Camden
White, P. M. (CS)	Greenwood
Whitehurst, Elizabeth (Unc)*	Tallahassee, Fla.
Whitener, R. S. (CS)	Union
Whitlaw, B. R. (CS)	North Augusta
Whitmire, D. T. (CS)	Pickens
Wickham, R. S. (CS)	Clinton
Wieters, W. D. (CS)	Charleston
Wiggins, J. E. (G)	Seneca
Wiggins, L. L. (G)*	Anderson
Wiggins, R. L. (CS)	Greenville
Wilcox, R. W. (CS)	Ft. Lauderdale, Fla.
Wilhelm, W. B. (CS)	Hartsville
Wilhelm, Weston C. (CS)	Hampton
Wilhelm, William C. (CS)	Hampton
Wilkerson, J. H. (CS)	Troy, Ala.
Wilkin, L. A. (G)	Clearwater, Fla.
Williams, A. L. (CS)	Lancaster
Williams, C. C. (CS)	Rock Hill
Williams, G. L. (Unc)	Walhalla
Williams, J. L. (G)	Abbeville
Williams, L. M. (G)*	Norway
Williams, Marchita (Unc)*	Clemson
Williams, R. R. (Unc)	Swansea
Williams, S. K. (Unc)*	Norway
Williamson, J. W. (Unc)	Charleston
Willimon, E. P. (CS)	Clemson
Willingham, C. R. (CS)	Charlotte, N. C.
Wilson, D. I. (CS)	Hemingway
Wilson, J. D. (CS)	Fort Mill
Wilson, J. E. (CS)	Canton, N. C.
Wilson, J. H. (CS)	Icard, N. C.
Wilson, J. S. (CS)	Cades
Wilson, L. K. (G)*	Belton
Wilson, L. M. (CS)	Clinton
Wilson, W. G. (CS)	Greenville
Wilson, W. J. (CS)	Calhoun Falls
Wilson, W. M. (CS)	Cades
Winchester, P. D. (CS)	Fort Mill
Windle, W. K. (CS)	Bethesda, Md.
Wingate, J. A. (CS)	Rock Hill
Wipf, A. S. (G)	Greenville
Wise, G. W. (CS)	Bakersfield, Calif.
Womack, J. M. (CS)	Camden
Wood, J. B. (G)*	Ocala, Fla.
Wood, J. G. (CS)	Florence
Woodcock, L. W. (G)	Iva
Woods, J. E. (CS)	Fountain Inn
Woodward, R. S. (CS)	Spartanburg
Wooten, T. E. (CS)	Graniteville
Wrenn, R. G. (CS)	Clinton
Wright, D. I. (CS)	Camden
Wright, H. L. (CS)	Greenville
Wright, J. H. (G)*	Edgefield
Wright, L. L. (CS)	Gastonia, N. C.
Yarborough, B. J. (CS)	Gastonia, N. C.
Yates, H. W. (CS)	Liberty
Yonce, C. E. (CS)	Ridge Spring
Young, W. L. (CS)	Yonges Island
Zink, E. M. (CS)	Central

LIST OF STUDENTS, FIRST SEMESTER, 1961-1962

The names are arranged in alphabetical order and following the names are symbols indicating classes and courses. The classification of undergraduates is indicated by numerals as follows: 1—Freshman, 2—Sophomore, 3—Junior, 4—Senior. The symbol, PG, indicates a student who has a bachelor's degree and is pursuing work towards another bachelor's degree. Special students are designated by the symbol, Unc. The classification of graduate students is indicated by the letter G.

The abbreviations following the numerals refer to the student's major course: A—Agriculture (unclassified as to major course). AgEc—Agricultural Economics, AgEd—Agricultural Education, AgE—Agricultural Engineering, Agron—Agronomy, AH—Animal Husbandry, Ap Math—Applied Mathematics, Arch—Architecture, A&S—Arts and Sciences, Bact—Bacteriology, Biol—Biology, CrE—Ceramic Engineering, ChE—Chemical Engineering, Chem—Chemistry, CE—Civil Engineering, Dairy—Dairy, E—Engineering (unclassified as to major course), Ed—Education, EE—Electrical Engineering, Ent—Entomology, FdT—Food Technology, For—Forestry, Hort—Horticulture, InEd—Industrial Education, IE—Industrial Engineering, IM—Industrial Management, Math—Mathematics, ME—Mechanical Engineering, NSc—Nuclear Science, Phys—Physics, PlPath—Plant Pathology, Poul—Poultry, Pre-Med—Pre-Medicine, Pre-Vet—Pre-Veterinary, TC—Textile Chemistry, TE—Textile Engineering, TMt—Textile Management, TMg—Textile Manufacturing, TS—Textile Science, Zool—Zoology.

New students admitted in September 1961 are indicated by an asterisk (*); part-time students by two asterisks (**).

Name and Course	*Address*
Aaron, J. P. (1 TMt)	Forest Park, Ga.
Abbott, E. D., II (2 Arch)*	Maryville, Tenn.
Abbott, G. W. (4 AgEc)	Darlington
Abbott, J. R. (4 IM)	Walhalla
Abbott, R. P. (2 EE)	Sumter
Abbott, S. H. (1 EE)*	Darlington
Abbott, W. B. (4 CE)	Sumter
Abdalla, D. A. (G Hort)**	Adelphi, Md.
Ables, B. L. (1 Pre-Vet)*	Westminster
Ables, C. D. (1 AgE)*	Liberty
Abney, J. E. (1 IM)*	Johnston
Aboul, N. S. (1 EE)	Beirut, Lebanon
Abrams, N. H. (1 CE)	North Charleston
Abrams, W. E. (1 CrE)*	Anderson
Acker, W. D. (1 ApMath)**	Anderson
Ackerman, J. L. (2 EE)	St. George
Ackerman, P W. (1 ME)*	Charleston
Ackerman, S. D. (2 CE)	St. George
Ackerman, T. W. (1 EE)*	Saluda
Adams, D. E. (1 IM)	Jacksonville, Fla.
Adams, David M. (3 Ed)	Greenville
Adams, Dudley M. (2 Pre-Med)	Camden
Adams, J. C. (1 EE)	Rock Hill
Adams, J. L. (3 ME)	Fort Mill
Adams, J. T. (3 For)	Clover
Adams, L. H. (1 IM)	Bamberg
Adams, L. S. (2 A&S)	Newberry
Adams, P. H. (2 A&S)	Shalimar, Fla.
Addington, G. W. (1 IM)*	Spartanburg
Addington, J. S. (1 IM)	Toccoa, Ga.
Addy, J. M. (1 IM)*	Laurens
Adkins, C. Y. (1 IM)*	Swansea
Adkins, D. H. (3 IM)	Greer
Agee, F. J. (3 Phys)	Mt. Pleasant
Aiken, W. M. (2 CrE)*	Statesville, N. C.
Aitken, J. B. (4 Hort)	Winter Garden, Fla.
Alabran, D. M. (G Chem)*-**	Davidson, N. C.
Alexander, C. E. (3 A&S)	Charleston
Alexander, D. M. (1 A&S)	Six Mile
Alexander, J. F. (1 CrE)*	Clemson
Alexander, J. L. (2 AgEd)	Tamassee
Alexander, R. S. (1 A&S)*	Six Mile
Alexander, W. E. (2 TMt)	Seneca
Aliffi, J. V. (1 A&S)	Savannah, Ga.
All, M. W. (1 IM)	Charleston Heights
Allan, James (2 EE)	Summerville
Allen, C. D. (1 CE)*	Charleston
Allen, D. A. (1 ME)	Greenville
Allen, H. R. (4 EE)	Darlington
Allen, J. L. (3 TMt)	Pendleton
Allen, L. B. (1 EE)*	Charleston
Allen, M. D. (4 TS)	Spartanburg
Allen, V. M. (3 Ed)	Central
Allgood, F. H. (3 Ed)	Seneca
Allison, I. S. (3 AgEd)	Horse Shoe, N. C.
Allison, J. M. (4 AgE)	Brevard. N. C.
Allred, J. R. (2 CE)	Sanford, Fla.
Alman, W. A. (4 TMt)	Spartanburg
Almers, W. M. (1 A&S)	Charleston
Altman, W. T. (3 IM)	Florence
Altoonian, J. W. (1 ChE)*	North Augusta
Alvarez, J. C. (1 IM)*	Marion
Ambrose, G. W. (1 IM)*	Charleston
Ambrose, L. R. (1 Pre-Med)	Greenwood
Ambrose, W. A. (3 AgEc)	Galivants Ferry
Amick, B. L. (1 Poul)	Batesburg
Anacker, R. L. (1 Chem)*	Columbia
Anderson, C. G. (1 AH)*,	Brentwood, Tenn.
Anderson, C. P. (3 EE)	Darlington
Anderson, E. R. (2 EE)	Dillon
Anderson, G. E. (4 TC)	Greer
Anderson, G. H. (1 EE)*	Pickens
Anderson, H. D. (2 EE)	Conway
Anderson, H. M. (1 TC)*	Barnwell
Anderson, J. M. (3 CE)	Greenwood
Anderson, N. H. (G Ent)	Greenville
Anderson, R. N. (1 Arch)*	Silver Spring, Md.
Anderson, T. G. (2 ApMath),	N. Charleston
Anderson, W. Lee (2 IE)	Arden, N. C.
Anderson, W. Luther (4 IM)	Rock Hill
Andreo, C. R. (4 IM)	Leechburg, Pa.
Andreozzi, P. P. (4 Ed)	Warren, R. I.
Andrews, C. D. (1 EE)*	Sumter
Andrews, H. L. (G)*-**	Clemson
Andrews, L. R. (1 EE)*	Johns Island
Anestos, P. T. (1 Arch)*	Ridgeland
Anthony, J. E. (1 CE)	Gaffney
Antoncic, R. A. (1 A&S)*	McKeesport, Pa.
Appeldorn, P. H. (1 EE)*	Whitestone, N. Y.
Arledge, M. J. (3 ME)	Greenville

Name and Course	*Address*
Arledge, T. S. (3 ME)	Greenville
Armistead, J. A. (3 Arch)	Easley
Armstrong, L. L. (1 A&S)	Eddystone, Pa.
Arnette, C. G. (4 ME)	Dillon
Arnold, C. E. (2 EE)	Charleston
Arnold, C. R. (1 ME)	Greenville
Arnold, J. H. (1 AgE)*	Darlington
Arnold, R. A. (2 EE)	Greenville
Arnold, R. P. (1 TMt)	Roanoke, Va.
Asbill, C. B. (1 A&S)*	Ridge Spring
Asbury, R. L. (G Chem)**	Charlotte, N. C.
Ashe, J. N. (4 EE)	Rock Hill
Ashley, S. S. (2 TMt)	Belton
Ashmore, C. R. (1 IM)*	Greenville
Ashworth, H. L. (Unc)*	Clemson
Askins, D. G. (1 CE)	Hartsville
Askins, H. W. (G EE)*	Chesnee
Atkins, A. R. (4 CE)	Marion, N. C.
Atkins, J. E. (1 EE)*	Greer
Atkinson, R. O. (1 AgEd)	Lowrys
Atkinson, R. T. (2 AgEd)	McBee
Atkinson, T. C. (3 AgE)	Bishopville
Atkinson, W. J. (2 CE)	Jacksonville, Fla.
Attaway, C. R. (4 ME)	Clinton, N. J.
Aull, D. K. (1 IM)	Cayce
Aurich, C. W. (G ME)*-**	Clemson
Ausburn, R. S. (3 ME)	Greenville
Austin, E. G. (2 EE)	Startex
Austin, J. H. (1 ChE)*	Cross Hill
Austin, W. B. (4 EE)	Spartanburg
Avinger, A. N. (3 CrE)	Orangeburg
Ayer, Birkie (1 ChE)*	North Augusta
Ayers, J. K. (4 IE)	Piedmont
Ayers, J. M. (1 EE)*	Taylors
Ayers, J. S. (2 IM)	Elberton, Ga.
Ayers, R. A. (2 Phys)	Orangeburg
Ayoub, H. A. (2 EE)	Charleston Heights
Ayres, W. C. (2 EE)	Nichols
Babb, M. M. (2 TMt)**	Spartanburg
Babb, R. L. (1 IE)*	Simpsonville
Babb, W. S. (1 ChE)	Travelers Rest
Baber, Jack (1 Arch) *	Asheville, N. C.
Back, H. E. (2 ME)	Orangeburg
Baer, D. M. (2 EE)	Burton
Bagley, C. A. (1 CE)*	Greenwood
Bagwell, J. W. (4 IM)	Greenville
Bagwell, R. D. (3 ME)	Waterloo
Bagwell, W. E. (2 IM)	Greenwood
Bailey, J. S. (1 TMt)*	Troy
Bailey, R. D. (1 EE)	Clinton
Bailey, R. L. (3 IM)	Barnwell
Bailey, S. M. (1 IM)*	Anderson
Bailey, T. G. (G Math)*-**	Roopville, Ga.
Bailey, W. M. (1 A&S)	Greenville
Bainbridge, R. R. (1 EE)*	Columbia
Baird, S. C. (1 A&S)*	Greenville
Baker, E. H. (1 AH)	Society Hill
Baker, H. C. (2 Pre-Med)	Timmonsville
Baker, J. L. (1 EE)	Piedmont
Baker, J. R. (1 CE)*	Whitmire
Baker, R. E. (1 Arch)*	Pacolet
Baker, R. J. (2 ME)	Charleston
Baker, R. V. (G AgE)*	College Stat., Tex.
Baker, W. E. (1 CE)	Whitmire
Balcezak, T. E. (1 Arch)*—	Glastonbury, Conn.
Baldwin, D. E. (3 ME)	Meggett
Baldwin, G. E. (1 IM)*	Charleston
Baldwin, J. D. (4 TMt)	Enoree
Baldwin, L. E. (3 IM)	Ravenel
Baldwin, M. H. (1 For)*	Columbia
Baldwin, V. E. (1 CE)	Charleston
Ballard, A. W. (1 EE)*	North Augusta
Ballard, G. E. (2 TMt)	North Augusta
Ballard, H. L. (1 A&S)*	Swannanoa, N. C.
Ballenger, S. H. (G Ed)**	Walhalla
Ballentine, R. M. (2 IM)	Easley
Ballentine, G. L. (3 IM)	Greenville
Balles, J. A. (1 For)	Jeannette, Pa.

Name and Course	*Address*
Ballew, S. T. (1 IM)	Newberry
Ballington, J. R. (2 AgEd)	Lexington
Bancroft, T. L. (2 IM)	Wilmington, N. C.
Bandy, J. W. (1 A&S)*	McCormick
Bankhead, J. M. (4 EE)	Silver Spring, Md.
Banks, M. S. (1 IM)*	St. Matthews
Bannister, R. F. (G Chem)**	Anderson
Bannon, J. G. (1 AH)	Greenville
Barbare, J. M. (1 CrE)	Greenville
Barker, C. L. (3 IE)	Rock Hill
Barnes, F. W. (1 Hort)*	Seneca
Barnes, G. M. (3 TMt)	Fairfax, Ala.
Barnes, J. B. (1 Pre-Med)*	Alexandria, Va.
Barnes, R. C. (1 InEd)	Easley
Barnett, J. W. (2 Dairy)	Clover
Barnett, W. J. (3 EE)	Ridgeway
Barr, T. J. (2 EE)	Aliquippa, Pa.
Barr, W. L. (2 For)	Greenville
Barrett, W. R. (2 IM)	Westminster
Barrick, G. T. (1 E)*	Ft. Lauderdale, Fla.
Barrineau, W. E. (2 TMt)	Cades
Barsh, C. R. (1 Pre-Med)*	Clemson
Bartell, W. D. (1 CE)*	Hemingway
Bartle, W. E. (1 For)*	Allendale, N. J.
Bartles, L. W. (2 Pre-Med)	Rock Hill
Bartless, E. S. (1 EE)	Greenwood
Barton, C. D. (2 ME)	Greenville
Bashor, A. L. (G Ed)**	Clemson
Bashor, M. W. (2 Arch)	Conway
Baskin, J. W. (1 A&S)	Greenville
Bates, R. A. (1 Agron)	Williston
Bates, S. B. (2 TC)*	Deerfield Beach, Fla.
Batson, B. K. (1 ME)	Greenville
Batson, W. E. (2 ChE)	Taylors
Battaglia, F. A. (1 A&S)*	Pittsburgh, Pa.
Batton, C. L. (3 ChE)	North Charleston
Batton, R. E. (2 ME)	Charleston Heights
Bauer, J. W. (1 CE)	Akron, Ohio
Bauer, M. W. (1 EE)*	Sumter
Baumann, J. H. (1 TMt)*	Greenville
Baxley, D. D. (4 AgE)	Kingstree
Baxter, H. T. (4 TMt)	Lincolnton, N. C.
Beach, I. L. (1 For)*	Ridgeland
Beachum, A. M. (3 Arch)	Myrtle Beach
Beale, T. M. (1 A&S)	Florence
Beam, C. P. (1 Arch)*	Gaffney
Beaman, C. P. (3 CE)	Asheville, N. C.
Bean, L. G. (4 EE)	Schenectady, N. Y.
Bearden, A. W. (1 Pre-Med)*	Seneca
Bearden, C. A. (1 TMt)	Seneca
Bearsch, L. P. (2 Arch)	Binghamton, N. Y.
Beasley, H. E. (1 ChE)*	Charleston
Beasley, M. W. (1 IE)*	Bishopville
Beattie, M. R. (4 CE)	Charleston
Beatty, R. R. (2 EE)	Charlotte, N. C.
Beaudrot, C. B. (2 ME)	Greenwood
Beauford, J. H. (1 AgE)*	Abbeville
Beazley, R. L. (1 IM)	Pittsburgh, Pa.
Beck, G. L. (1 CE)*	Asheville, N. C.
Beckman, S. W. (1 TMt)**	Columbia
Bedenbaugh, D. W. (1 ChE)	Orangeburg
Begg, G. S. (4 IM)	Spartanburg
Belcher, J. J. (2 TC)	Inman
Belding, G. W. (1 E)*	Charleston
Belk, J. D. (1 Chem)*	Pacolet
Belk, J. F. (4 EE)	Columbia
Belk, J. S. (1 A&S)	Anderson
Bell, D. R. (4 AH)	Bowman
Bell, F. L. (1 A&S)*	Lancaster
Bell, J. D. (1 ME)	Greenville
Bell, M. A. (1 ApMath)*	Clemson
Bell, P. S. (1 AgE)*	Loris
Bell, R. C. (2 IM)	Avondale Estates, Ga.
Bell, T. J. (1 A&S)*	Hartsville
Bellamy, W. G. (1 CE)	Myrtle Beach
Bellinger, W. Y. (1 EE)*	Charleston
Benfield, D. H. (2 AgEd)	Lenoir, N. C.
Benjamin, J. C. (4 ChE)	Liberty
Bennett, C. A. (3 Phys)	Union
Bennett, D. E. (1 IM)*	Spartanburg

Name and Course	Address
Bennett, J. D. (3 CE)	Spartanburg
Bennett, J. H. (4 AgE)	Bennettsville
Bennett, J. P. (1 For)	Spartanburg
Bennett, S. E. (1 Dairy)	Chester
Benson, P. H. (4 A&S)	Florence
Benson, R. D. (3 IM)	Greensburg, Pa.
Benton, W. E. (1 IM)	Myrtle Beach
Berger, R. F. (2 Pre-Med)	Eutawville
Berry, B. W. (1 EE)°	Central
Berry, C. L. (1 Arch)°	Clemson
Berry, C. M. (4 Ed)	Spartanburg
Berry, L. H. (1 TMt)	Thomson, Ga.
Berry, R. C. (1 IM)	North Charleston
Berry, W. E. (3 TMt)	Greenville
Berry, W. J. (3 IM)	Greer
Bess, C. M. (2 ME)	Pageland
Best, M. D. (4 A&S)	Hartsville
Bethea, A. V. (2 AgE)	Latta
Bethea, P. W. (1 TMt)°	Columbus, Ga.
Bethea, T. W. (G Chem)	Lancaster
Bethune, W. R. (2 Arch)	Columbia
Beverly, G. W. (1 For)°	Donalsonville, Ga.
Bevill, J. D. (4 TS)	Anderson
Bickerstaff, H. J. (4 CrE)	Columbus, Ga.
Bickley, R. S. (2 For)	West Columbia
Bigham, R. H. (1 TMt)	Chester
Bingham, C. D. (4 AgEd)	Kingstree
Bird, S. L. (3 TMt)	Rock Hill
Bishop, F. M. (1 EE)°	Landrum
Bishop, F. R. (4 IM)	Beaufort
Bishop, I. A. (1 Pre-Med)°	Elloree
Bishop, P. D. (1 CE)°	Kingstree
Bishop, R. J. (3 EE)	Savannah, Ga.
Bishop, R. M. (1 CE)°	North Charleston
Bishop, R. N. (3 CrE)	Chester
Bishop, W. A. (4 CE)	Bananera, Guatemala
Bishop, W. R. (1 AH)	Inman
Bivens, C. N. (G Chem)	Rutherfordton, N. C.
Black, J. W. (3 AgEd)	Swansea
Black, T. H. (2 IM)	Lexington, Va.
Black, W. W. (4 IM)	Batesburg
Blackman, W. B. (1 ChE)°	Rock Hill
Blackmon, A. B. (1 Arch)	Lancaster
Blackmon, J. C. (1 TMt)	Hartsville
Blackmon, J. W. (1 IM)°	Hartsville
Blackwell, J. C. (1 A&S)°	York
Blackwell, P. E. (3 AgEd)	York
Blackwell, T. E. (4 For)	North Charleston
Blackwood, J. W. (2 TMt)	Gaffney
Blackwood, W. A. (4 CE)	Spartanburg
Blair, L. W. (4 ME)	Hendersonville, N. C.
Blair, M. E. (4 ME)	Greenville
Blair, W. D. (2 EE)	Sharon
Blakely, T. A. (1 AgE)	Piedmont
Blakeney, C. R. (4 Pre-Med)	Kershaw
Blakeney, E. D. (G ME)°°	Clemson
Blakeney, H. E. (2 TMt)	Kershaw
Blakeney, K. C. (3 A&S)	Kershaw
Blanch, P. F. (2 A&S)	Belleville, N. J.
Blanchard, A. E. (2 Pre-Med)	Florence
Blanchard, E. M. (2 A&S)	Cheraw
Blanchard, R. A. (2 Arch)	Cheraw
Blankenship, Richard (4 IM)	Charlotte, N. C.
Blanton, J. K. (2 AgEd)°	Nichols
Blanton, L. W. (1 AgEd)	Gaffney
Blanton, W. D. (3 ME)	Florence
Blocksidge, R. W. (1 Pre-Med)°	Pittsburgh, Pa.
Blomquist, D. J. (1 Arch)°	Mount Prospect, Ill.
Blount, C. E. (1 CE)°	North Charleston
Blume, C. R. (1 Arch)°	Manning
Blume, J. H. (1 Pre-Med)°	Charleston
Bobb, C. C. (3 IM)	Greenville
Bobb, M. L. (1 Ent)	Charlottesville, Va.
Bobo, F. B. (1 ME)°	North Charleston
Bodie, D. R. (2 IM)	Clover
Bodie, R. M. (1 CE)°	Columbia

Name and Course	Address
Bofill, J. J. (5 Arch)	Havana, Cuba
Boggs, D. M. (2 Chem)	Clemson
Boggs, J. B. (1 CrE)	Clemson
Boggs, L. M. (3 EE)	Pickens
Boggs, R. L. (1 IE)	Oak Ridge, Tenn.
Bohonak, Michael (2 Ed)	Pittsburgh, Pa.
Boissoneault, R. N. (1 EE)°	James Island
Boland, J. K. (1 Pre-Med)°	North Augusta
Boland, R. J. (1 ME)°	North Augusta
Bolding, B. N. (3 IM)	Lyman
Bolen, A. H. (2 EE)	Easley
Boles, P. P. (G AgEc)°	Cave City, Ky.
Boley, G. W. (1 CE)°	Greenville
Boling, J. A. (3 AH)	Moore
Bolt, B. K. (1 ME)°	Greenwood
Bolt, C. S. (3 A&S)	Greenville
Bolt, F. A. (2 EE)	Laurens
Bolt, J. D. (1 TMt)	Anderson
Bolton, G. E. (2 A&S)	Greenville
Bolton, J. L. (3 CrE)	Greenwood
Bolton, W. L. (1 Arch)°	Orangeburg
Bonds, T. O. (2 IM)	Bamberg
Boney, J. B. (2 TMt)	Sumter
Bonnett, R. T. (2 Ed)	Hillsdale, N. J.
Bonney, R. C. (2 TMt)	Fairfield, Conn.
Booker, L. W. (Unc)°-°°	Clemson
Bookhart, W. B. (1 AgEd)	Elloree
Bookmiller, J. E. (1 Arch)°	Snyder, N. Y.
Booth, J. R. (G ChE)°	Hampton, Va.
Booth, L. L. (3 A&S)	Clemson
Booth, P. M. (4 AgEc)	Hartsville
Boozer, L. D. (4 EE)	Columbia
Boroughs, R. K. (2 A&S)	Dillon
Boseman, J. M. (1 EE)°	Charleston Hghts.
Boseman, T. R. (4 For)	Darlington
Bosley, J. E. (4 Biol)	Beaufort
Bost, E. H. (4 CrE)	Myrtle Beach
Bostick, J. M. (2 IM)	Estill
Bostick, P. I. (4 ChE)	Marion
Bouchelle, L. H. (1 ME)°	Thunderbolt, Ga.
Bouknight, G. E. (2 A&S)	Rock Hill
Bowen, R. L. (3 IM)	Chesnee
Bowen, T. L. (PG Pre-Med)	Clemson
Bowen, T. O. (4 Biol)	Sumter
Bower, R. A. (1 EE)°	Charleston
Bowers, E. W. (1 Arch)°	Charlotte, N. C.
Bowers, Jimmy C. (1 ME)°	Camden
Bowers, Joseph C. (2 IM)	Pickens
Bowers, R. A. (2 EE)°	Greenville
Bowers, R. B. (1 TS)°	Heath Springs
Bowie, C. F. (3 TMt)	Greenwood
Bowyer, C. C. (2 TMt)	Salisbury, N. C.
Boyce, W. T. (2 Agron)	Laurel, Del.
Boyd, H. E. (1 Phys)°	College Park, Md.
Boyd, J. D. (2 ME)	Spartanburg
Boyd, L. D. (1 ChE)°	Conway
Boyd, N. L. (2 Phys)°	Greenville
Boyd, R. R. (1 Arch)°	Loris
Boyd, W. C. (1 AgEd)°	Loris
Boyette, J. V. (1 CE)°	Lyman
Boylston, D. W. (3 CE)	Sumter
Bozard, R. G. (1 IM)	St. Matthews
Bozeman, W. L. (1 ME)°	Tampa, Fla.
Brabham, C. J. (1 IM)	Greenwood
Brabham, F. B. (2 ME)	Bamberg
Brabham, F. S. (1 Dairy)°	Bamberg
Brackett, F. B. (1 TC)°	York
Bradberry, C. A. (4 Chem)	Abbeville
Braddy, P. D. (1 EE)°	Aiken
Bradham, D. A. (2 Pre-Med)	Sumter
Bradham, J. C. (1 Dairy)	Sumter
Bradley, J. H. (2 CE)	Charleston Heights
Bradley, W. P. (1 EE)°	Charleston
Braley, R. W. (1 Arch)	Columbia
Bramlett, C. D. (4 CE)	Greenville
Bramlette, G. N. (3 TMt)	Spartanburg
Bramlette, J. M. (2 IM)	Greenville
Bramlette, K. C. (1 IM)°	Taylors
Bramlette, O. S. (1 Pre-Med)°	Greenville
Branch, J. E. (4 IM)	McConnells
Brandon, D. G. (1 EE)°	Charleston

Name and Course	*Address*
Brannon, L. G. (1 CE)	Greer
Brannon, M. J. (3 Arch)	Drayton
Brant, W. S. (3 CE)	Allendale
Brasington, C. R. (2 EE)	Lake City
Breazeale, C. A. (1 E)*	Belton
Breazeale, K. S. (Unc)*-**	Clemson
Breeden, R. L. (2 EE)	Bennettsville
Brennan, J. E. (1 A&S)	McKeesport, Pa.
Brent, J. A. (3 ME)	Savannah, Ga.
Brewer, A. G. (4 AgEc)	Lake View
Brewer, J. L. (2 AgEd)	Lake View
Brian, S. B. (3 TS)	Wellford
Brice, J. B. (4 CE)	Woodward
Brice, M. V. (1 CE)*	Travelers Rest
Bridges, R. D. (3 ME)	Taylors
Bridges, T. L. (2 EE)	Greenville
Bridwell, R. E. (1 A&S)*	Rock Hill
Bridwell, W. H. (4 EE)	Rock Hill
Briggs, M. G. (3 AgE)	Mars Hill, N. C.
Bright, C. O. (1 Pre-Vet)*	Columbia
Brigman, J. E. (1 EE)*	Winnsboro
Brigman, L. M. (1 IM)	Newberry
Brinson, G. W. (2 IM)	Moncks Corner
Britt, M. C. (3 A&S)	Georgetown
Brittain, J. A. (G Hort)	Horse Shoe, N. C.
Britton, J. P. (2 For)	Sumter
Broadway, E. H. (3 EE)	Bishopville
Broadway, F. A. (1 IM)	Cheraw
Brock, H. G. (1 E)*	Pendleton
Brock, J. L. (1 Pre-Med)	Central
Brockman, T. A. (3 ME)	Greer
Brogdon, L. J. (1 Hort)*	Little Silver, N. J.
Brooks, J. N. (2 IM)	Inman
Brooks, M. O. (1 A&S)*	Loris
Brooks, P. M. (1 IM)*	Newberry
Brooks, T. A. (2 A&S)	Anderson
Brooks, W. G. (G AgE)	Loris
Brotherton, J. R. (3 For)	Whitmire
Browder, L. E. (G Chem)	Andrews
Brown, A. K. (4 CrE)**	Columbia
Brown, A. L. (2 EE)	Spartanburg
Brown, B. D. (3 ME)	Anderson
Brown, C. A. (2 Pre-Med)	Anderson
Brown, C. V. (1 ME)*	Ithaca, N. Y.
Brown, D. A. (2 CE)	Charleston
Brown, D. W. (1 Hort)	Clemson
Brown, E. G. (4 ME)	Columbia
Brown, G. M. (1 EE)	Buffalo
Brown, G. R. (4 TMt)	Barnwell
Brown, H. K. (1 CE)*	Hampton
Brown, J. B. (4 CE)	Taylors
Brown, James E. (1 TMt)*	Inman
Brown, Joseph E. (2 AgE)	Kingstree
Brown, J. Lee (3 ME)	Enoree
Brown, J. Lockwood (2 Pre-Med)	Charleston
Brown, Johnny M. (2 ChE)	Rock Hill
Brown, Joseph M. (1 EE)	Greenwood
Brown, J. P. (1 ME)*	Dewy Rose, Ga.
Brown, J. R. (3 ChE)	Charleston
Brown, J. W. (3 A&S)	Anderson
Brown, K. R. (3 ME)	North Augusta
Brown, L. G. (2 Pre-Vet)	Kingstree
Brown, L. R. (1 EE)*	Hendersonville, N. C.
Brown, M. S. (1 Arch)	Inman
Brown, M. W. (2 EE)	North Charleston
Brown, R. H. (1 CrE)*	Hartsville
Brown, R. L. (1 ME)	Greenwood
Brown, Richard M. (3 IE)	Greenville
Brown, Rufus M. (4 For)	Kingstree
Brown, R. O. (2 Pre-Med)	Richburg
Brown, R. W. (2 ApMath)	Chester
Brown, Terrence C. (1 E)*	Kingstree
Brown, Thomas C. (2 ME)	Laurens
Brown, T. E. (1 ApMath)*	Sumter
Brown, W. H. (1 Arch)	Aynor
Brown, W. J. (2 EE)	Lexington
Brown, Walter L. (1 TC)*	Dillon
Brown, Wesley L. (3 EE)	Laurens
Brown, W. P. (2 Agron)	Laurens

Name and Course	*Address*
Browning, J. W. (2 IM)*	Williamston
Brownlee, J. C. (4 CrE)	Laurens
Brownlee, J. T. (2 ME)	Orangeburg
Bruce, J. E. (5 Arch)	Greenville
Bruce, M. M. (4 EE)	Greer
Bruner, R. H. (2 Biol)	Clemson
Brunson, R. O. (4 IM)	Gifford
Bruorton, E. A. (1 EE)*	Charleston
Bruorton, O. W. (1 For)	Greeleyville
Bruton, C. J. (1 ChE)*	McBee
Bryan, C. B. (2 A&S)	Johns Island
Bryan, Edward R. (3 AgEc)	Walterboro
Bryan, Ernest R. (1 CE)*	Edgefield
Bryan, J. R. (2 Arch)	Columbia
Bryan, R. L. (2 Pre-Vet)	Luray
Bryant, F. S. (2 AgEd)	Lake View
Bryant, J. C. (1 ME)*	Clemson
Bryant, J. D. (1 AgE)*	Anderson
Bryant, J. O. (4 ChE)	Clemson
Bryant, M. E. (2 A&S)*	Anderson
Bryant, O. H. (1 A&S)	Mt. Sterling, Ky.
Bryant, R. M. (1 A&S)*	Iva
Buckley, M. B. (2 Arch)	Columbia
Buddin, W. C. (1 ME)*	Sumter
Buffington, J. J. (3 For)	Clinton
Buffkin, J. M. (3 AgEd)	Heath Springs
Buffum, R. S. (1 Arch)*	North Leaminster, Mass.
Bufkin, E. F. (2 A&S)	Port Royal
Buie, W. B. (1 Chem)	Dillon
Bujanski, T. R. (3 ME)	Greenville
Bullock, R. A. (4 CE)	Brevard, N. C.
Bullwinkel, E. H. (1 ME)*	Mt. Pleasant
Bumpas, O. C. (1 A&S)	Clark Hill
Bunch, P. H. (1 ChE)*	North Augusta
Bunnell, D. D. (4 TMt)	Philadelphia, Pa.
Burbage, H. D. (3 EE)	Greenville
Burch, J. E. (3 TMt)	Lake City
Burdette, J. M. (3 IM)	Greenville
Burdette, W. Harold (2 A&S)	Seneca
Burdette, W. Hoyt (3 Chem)	Iva
Burgess, A. L. (2 EE)	Gaffney
Burgess, D. H. (2 CE)	Cleveland
Burgess, T. L. (3 CE)	Greenville
Burke, K. I. (G Chem)*	Maitland, Fla.
Burkett, B. V. (2 EE)	Seneca
Burley, W. N. (2 CE)	Walhalla
Burnett, J. W. (1 ChE)*	Greenville
Burnett, R. E. (1 Hort)	Clemson
Burnette, W. R. (3 IM)	Bristol, Va.
Burnisky, G. L. (2 EE)	Bridgeville, Pa.
Burns, E. G. (1 E)*	Anderson
Burns, L. M. (4 IM)	York
Burns, R. L. (4 CE)	Columbia
Burrell, V. F. (3 EE)	Whitmire
Burriss, C. D. (1 TMt)	Fair Play
Burriss, C. J. (3 IE)	Greenville
Burriss, L. J. (1 EE)*	Columbia
Burrous, M. G. (1 ME)*	Greenville
Burton, J. D. (2 TMt)	Calhoun Falls
Burton, P. C. (1 TC)*	Donalds
Busby, T. R. (3 CrE)	Orangeburg
Busch, H. R. (1 E)*	Aiken
Busch, W. B. (2 Arch)	Columbia
Bush, H. H. (1 ME)*	Augusta, Ga.
Bush, M. D. (1 Pre-Vet)*	Charleston
Bush, W. S. (1 Phys)*	Walterboro
Butcher, K. R. (4 Dairy)	Holly Hill
Butehorn, H. F. (1 Chem)*	N. Charleston
Butler, G. P. (2 IM)	Abbeville
Butler, J. M. (3 TC)	Rock Hill
Butt, W. C. (1 IM)*	Charleston
Buxton, K. S. (2 Chem)**	Clemson
Byars, E. B. (3 IM)	Lowrys
Byas, H. E. (3 CE)	Asheville, N. C.
Byers, E. H. (2 ME)	Belmont, N. C.
Byers, R. A. (1 TMt)	Greenville
Byrd, B. E. (2 IM)	Hartsville
Byrd, F. C. (2 A&S)	Ridge Spring
Byrd, G. O. (1 IM)*	Hartsville
Byrd, J. F. (2 A&S)	Edgefield

Name and Course	Address
Byrd, J. S. (4 TC)	Hartsville
Byrd, P. H. (2 A&S)	Hartsville
Caban, C. H. (3 ChE)	Spartanburg
Caban, J. C. (2 IM)	Spartanburg
Cable, J. H. (1 Arch)*	Pittsburgh, Pa.
Cadorette, R. P. (1 IM)*	Lake View
Cagle, W. J. (1 E)*	Hemingway
Caldwell, R. H. (2 AgEd)	Kings Creek
Caldwell, W. H. (3 For)	Kings Creek
Calhoun, A. M. (4 TMt)	Clio
Calkins, W. L. (2 EE)	Winnsboro
Callahan, H. A. (1 Arch)*—	Rutherfordton, N. C.
Calloway, J. C. (3 ME)	Spartanburg
Calvert, L. C. (1 TMt)*,	Charleston Heights
Calvert, L. F. (4 TMt)*,	Charleston Heights
Campbell, A. R. (2 InEd)	Spartanburg
Campbell, B. H. (3 Ed)	Spartanburg
Campbell, J. H. (3 EE)	Seneca
Campbell, J. L. (3 ME)	Spartanburg
Campbell, R. L. (1 EE)*	Ridgeville
Campbell, R. S. (G ME)**	Aiken
Campbell, S. L. (4 CE)	Rock Hill
Campbell, T. L. (1 Pre-Vet)**	Easley
Campbell, W. G. (4 ChE)—	Hendersonville, N. C.
Campbell, Wayne H. (1 EE)*	Anderson
Campbell, William H. (1 EE)*,	Charleston
Campoamor, Fernando (1 CE)—	Caquas, Puerto Rico
Camps-Campins, A. F. (1 Arch)—	Trinidad, West Indies
Candler, L. E. (3 ME)	Lockhart
Cannady, W. K. (1 ChE)	Charleston
Cannon, O. H. (4 ME)	Summerville
Cannon, W. A. (2 ME)	Patrick
Cantey, E. B. (1 AgEd)	Lake City
Cantrell, A. F. (4 A&S)	Liberty
Cantrell, C. B. (1 CE)*	Greenville
Canup, J. T. (1 Pre-Med)*	Williamston
Caplan, S. M. (1 Pre-Med)*,	Pittsburgh, Pa.
Capps, F. L. (1 CE)	Greenville
Carland, W. S. (3 AgEd)	Fletcher, N. C.
Carlay, M. L. (2 ME)	Greenwood
Carlisle, J. C. (1 ApMath)*	Lugoff
Carnes, W. W. (1 CrE)*	Bishopville
Carothers, T. F. (2 ME)	Lancaster
Carpenter, G. W. (1 TMt),	Gastonia, N. C.
Carpenter, T. E. (3 AgEc)—	Cherryville, N. C.
Carros, C G. (4 EE)	Spartanburg
Carrouth, T. H. (3 IM)	Fort Mill
Carson, C. D. (3 For)	Columbia
Carson, K. W. (3 Pre-Med)	Kershaw
Carson, W. D. (3 Hort)	Summerton
Cartee, R. R. (2 AgE)	Easley
Carter, C. R. (2 IM)	Charleston
Carter, G. W. (4 TMt)	Chester
Carter, J. F. (3 IM)	Greenville
Carter, J. M. (2 Agron)	Ruffin
Carter, L. J. (1 CrE)*	Kingstree
Carter, M. R. (G CE)—	Jacksonville Beach, Fla.
Carter, R. E. (2 For)	Walterboro
Carter, R. J. (1 IM)*	Toccoa, Ga.
Carter, S. A. (2 Arch)	Belvedere
Carter, W. Ronald (1 Pre-Med)	Johnston
Carter, W. Roy (1 ChE)*	Fort Lawn
Carter, W. T. (2 Biol)	Longs
Cartledge, T. D. (1 For)	Parksville
Carusoe, Dennis (1 IM),	Little Silver, N. J.
Carver, J. R. (4 Chem)	Newberry
Case, J. S. (2 For)	Walterboro
Case, L. C. (G AgEd)**	Clemson
Casey, George (1 ApMath)*—	West Palm Beach, Fla.
Casey, W. T. (1 Arch)*	Fountain Inn
Cash, J. C. (1 IM)*	Cowpens
Cash, J. H. (2 A&S)	Taylors
Cashman, R. H. (2 TMt),	Chevy Chase, Md.
Cashmer, D. M. (1 A&S)	St. Marys, Pa.
Cashwell, R. A. (1 A)*	Timmonsville
Caskey, W. D. (1 Pre-Med)*	Lancaster
Cassidy, H. O. (1 ME)*	Darlington
Casson, W. H. (1 A&S)*	Columbia
Caswell, W. M. (2 CrE)	Atlanta, Ga.
Catenaci, J. E. (1 IM)	Eatontown, N. J.
Cater, G. T. (4 TE)**	Anderson
Cathcart, D. H. (1 Phys)*	Greenwood
Catoe, G. B. (1 ChE)*	Kershaw
Cauble, C. R. (1 ME)	Asheville, N. C.
Caudell, A. L. (1 E)*	Greenville
Caughman, G. W. (1 IM)*	Lexington
Caughman, H. D. (2 Chem)	Ware Shoals
Caughman, J. K. (4 Dairy)	Lexington
Caughman, S. D. (1 AgEd)	Leesville
Causey, R. C. (2 IM)	Furman
Cauthen, L. W. (4 IM)	Lancaster
Cellucci, J. A. (2 EE)	Norwich, Conn.
Cely, J. G. (1 AH)	Easley
Cely, J. V. (1 ME)*	Greenville
Chambers, D. A. (2 ME)—	Pisgah Forest, N. C.
Chambers, J. L. (1 CE)*	Fort Mill
Chamblee, J. M. (4 AH)	Anderson
Chandler, L. J. (2 ME)	Habersham, Ga.
Chandler, R. W. (1 IM)*	Greenville
Chandler, T. L. (4 ME)	Greer
Chaney, C. J. (1 IM)*	Laurens
Chanin, M. J. (Unc)**	Clemson
Chapin, B. M. (2 EE)	Catonsville, Md.
Chapman, B. H. (2 AH)	Anderson
Chapman, H. T. (3 CE)	Pelzer
Chapman, J. I. (4 Hort)	Luray
Chapman, J. R. (1 Pre-Med)*	Walterboro
Chapman, R. T. (1 IM)	New York, N. Y.
Chapman, T. F. (1 IM)*	Atlanta, Ga.
Charping, J. D. (1 ChE)*	Taylors
Chase, W. A. (1 A&S)*	Seneca
Chavous, C. C. (1 IM)	Anderson
Chelf, W. H. (3 ChE)	Rock Hill
Chewning, J. M. (1 IM)	Lancaster
Childers, C. W. (1 IM)	Greenville
Childers, J. T. (3 AgEd)	Great Falls
Childress, L. E. (3 IM)	Kenmore, N. J.
Childress, W. H. (2 For)	Salem
Childs, A. D. (3 TMt)	Anderson
Childs, M. S. (1 TMt)	Pendleton
Chipukites, G. D. (1 AgEd)	Elyria, Ohio
Chittenden, W. A. (1 Phys)*,	Adams, Mass.
Chlystun, W. K. (2 ME),	Jacksonville, Fla.
Chow, A. T. (G EE)	Hong Kong
Christensen, Niels (G Phys)	Beaufort
Christopher, G. M. (3 A&S)	Hodges
Chuy, D. J. (1 A&S)	Nutley, N. J.
Clair, W. R. (1 EE)*	Charleston
Clamp, D. C. (2 ChE)	Salley
Clamp, P. M. (1 AgEd)	Salley
Clancy, T. A. (4 CrE)	Barnwell
Clark, F. J. (4 Arch)	Anderson
Clark, H. A. (4 ME)	Abbeville
Clark, H. F. (2 ME)	Martinez, Ga.
Clark, J. G. (1 ChE)*	Anderson
Clark, J. M. (3 ChE)	Orangeburg
Clark, T. L. (1 Pre-Med)*	Charleston
Clark, W. E. (1 Arch)*	Santee
Clarke, W. D. (2 A&S)	Florence
Clarkson, R. J. (1 CrE)*	Winnsboro
Clary, J. B. (1 EE)*	Gaffney
Clary, K. E. (2 Pre-Med)	Gaffney
Clawson, C. D. (G Dairy)**	Clemson
Clayton, H. W. (1 IM)	Greenville
Clayton, W. R. (4 AgEc)	Belton
Cleaves, F. T. (2 CrE)	Greensboro, N. C.
Clelan, G. B. (2 Pre-Vet)	Granville, Pa.
Cleland, J. S. (1 Arch)*	Columbia
Clement, J. R. (1 For)*	Greer
Clement, W. P. (2 IE)	Spartanburg
Clinkscales, F. V. (2 CE)	Greenville
Clinkscales, L. N. (3 TMt)	Anderson
Cloaninger, C. E. (2 A&S)	Columbia

Name and Course	*Address*
Clyburn, H. L. (4 ME)	Camden
Clyburn, L. M. (2 TMt)	Kershaw
Coates, J. L. (4 AgEc)	Ocean Drive
Cobb, D. R. (2 EE)	Anderson
Cobb, J. G. (4 EE)**	Walhalla
Cobb, J. L. (1 Pre-Med)*	Clemson
Cobb, M. K. (1 CE)*	Abbeville
Cobianchi, T. T. (1 CE)—	New Shrewsberry, N. J.
Coble, C. G. (4 AgE)	Holly Hill
Coble, W. E. (1 Dairy)	Simpsonville
Cochran, A. M. (3 IM)	Anderson
Cochran, J. W. (1 IM)*	Union
Cochran, S. E. (1 A&S)*	Clemson
Cocke, J. B. (PG AgE)**	Clemson
Coffey, L. P. (1 A&S)	Blowing Rock, N. C.
Coffman, M. D. (1 TMt)	Aiken
Coggin, C. H. (3 CrE)	Columbia
Coggins, J. L. (2 IM)	Woodruff
Cohn, S. E. (1 TMt)*	Beckley, W. Va.
Coker, W. C. (1 Arch)*	Columbia
Coker, W. R. (1 IE)*	Asheville, N. C.
Coleman, B. G. (4 CrE)	Saluda
Coleman, H. F. (4 Ed)	Union
Coleman, H. L. (2 EE)	Mt. Pleasant
Coleman, J. B. (2 EE)	Waterloo
Coleman, R. A. (4 CE)	Anderson
Colio, L. G. (1 Arch)*	Lancaster, Pa.
Collery, P. W. (1 A&S)*	Malvern, Pa.
Collins, A. S. (1 EE)	Salem
Collins, C. J. (2 A&S)	Greenville
Collins, E. L. (2 CrE)	Greenville
Collins, J. C. (4 ME)	Pendleton
Collins, J. L. (2 IM)	Blacksburg
Collins, Joel W. (1 CrE)*	Chester
Collins, John W. (4 A&S)	Pageland
Collins, L. H. (1 TC)*	North Charleston
Collins, L. W. (2 Hort)	Campobello
Collins, Robin (2 CE)	Orangeburg
Collins, T. J. (2 AH)	Pickens
Colt, B. H. (3 EE)	Hendersonville, N. C.
Colvin, C. N. (1 CrE)*	Chester
Commander, J. B. (2 ME)	Atlanta, Ga.
Compton, J. A. (1 EE)	Lexington
Cone, G. E. (1 For)*	Estill
Cone, J. C. (2 ME)	Gastonia, N. C.
Cone, W. D. (1 Pre-Med)	Sumter
Conner, W. H. (G ChE)	Timmonsville
Connor, J. D. (3 Agron)	Barnwell
Constan, N. G. (1 CrE)	Huntsville, Ala.
Constantine, Elliott (2 Arch)	Charleston
Conway, W. F. (1 Arch)	Sumter
Cook, C. D. (1 Pre-Med)*	Orangeburg
Cook, R. J. (2 IM)	Atlanta, Ga.
Cook, W. C. (PG Dairy)**	Clemson
Cook, W. P. (4 Hort)	Woodruff
Cooke, T. R. (3 AgEd)	Greer
Cooksey, R. H. (4 For)	Charlotte, N. C.
Cooper, C. E. (3 ApMath)	Sumter
Cooper, G. T. (2 A&S)	Camden
Cooper, H. P. (2 Pre-Med)*	Clemson
Cooper, J. W. (4 Arch)	Newberry
Cooper, L. P. (4 ApMath)	Greenville
Cooper, R. E. (2 Hort)	Clemson
Cooper, W. M. (2 ME)	North Augusta
Cope, E. G. (1 A&S)	Newberry
Copeland, B. F. (1 AgE)*	Clinton
Copeland, D. W. (1 E)*	Leesburg, Fla.
Copeland, F. S. (4 EE)	Greer
Copeland, J. C. (4 IM)	La France
Copeland, J. L. (1 Arch)	Leesburg, Fla.
Copeland, P. W. (3 For)	Clinton
Corbin, R. A. (1 ME)*	North Charleston
Corley, G. D. (2 Arch)	Columbia
Corley, I. E. (1 AH)	Simpsonville
Corley, W. L. (G Hort)	Experiment, Ga.
Corn, W. R. (3 For)	Union
Cornelius, J. H. (2 Agron)	Homestead, Fla.
Cornwell, D. F. (4 TMt)	Greenville
Cornwell, W. C. (1 ChE)*	Rock Hill
Coskrey, E. C. (2 Pre-Med)	Manning

Name and Course	*Address*
Coskrey, O. B. (2 AgEd)	Summerton
Costa, J. M. (1 ME)	Charleston
Cothran, J. R. (4 Hort)	Greenwood
Cothran, P. G. (1 IM)*	Hartford, Conn.
Cothran, R. L. (2 TMt)	Easley
Cottingham, J. D. (2 Pre-Vet)	Lynchburg
Council, J. R. (4 CrE)	Orangeburg
Counts, C. A. (2 CrE)	Mullins
Courie, A. G. (1 A&S)*	Marion
Courtney, J. F. (G ChE)	Camden
Courtney, J. W. (3 ME)	Columbia
Coward, P. A. (1 Pre-Med)*	Sumter
Coward, T. H. (2 AH)	Aiken
Coward, W. M. (1 AgEd)*	Coward
Cowart, R. E. (G Hort)	Columbia
Cowsert, R. W. (2 Pre-Med)	Columbia
Cox, A. R. (2 CrE)	Marion
Cox, B. A. (2 TC)	Quebec, Canada
Cox, C. W. (2 Pre-Med)	Seneca
Cox, D. K. (3 CrE)	Easley
Cox, G. G. (1 EE)*	Sumter
Cox, J. A. (1 EE)*	Pelzer
Cox, N. O. (2 AgEc)	Loris
Cox, R. A. (1 AH)*	Syracuse, N. Y.
Cox, W. L. (1 A&S)	Anderson
Cox, W. T. (2 IM)	Clemson
Coyle, J. W. (2 ChE)	Riverside, N. J.
Crabtree, S. J. (3 Phys)	Charleston Hghts.
Craft, F. C. (2 IM)	Columbia
Craft, J. R. (1 IE)**	Seneca
Craig, H. W. (2 A&S)	Clover
Craig, J. C. (1 IM)*	Charlotte, N. C.
Craighead, C. C. (G Poul)*-**	Laurens
Crain, P. C. (1 A&S)	Latrobe, Pa.
Cranford, H. C. (2 ME)	Summerville
Crawford, C. H. (1 CE)*	Greenville
Crawford, E. M. (2 Pre-Med)	Winnsboro
Crawford, J. H. (1 A&S)*	Clemson
Creach, M. L. (3 TS)	Hartsville
Credle, A. B. (2 IM)	Poughkeepsie, N. Y.
Creekmore, L. A. (1 IE)	Newberry
Creel, J. O. (1 EE)*	Hemingway
Crenshaw, G. W. (3 EE)	Greer
Crenshaw, R. B. (1 ChE)*	Kershaw
Crenshaw, R. W. (2 Arch)	Lancaster
Crews, F. N. (1 Pre-Med)*	Easley
Cribb, C. L. (1 Pre-Vet)*	Marion
Cribb, T. G. (1 CE)**	Greenville
Cribb, V. T. (4 AgE)	Cheraw
Crick, M. E. (1 AgEd)*	Kingstree
Crisp, H. E. (2 EE)	Fredericksburg, Va.
Critser, R. W. (3 IM)	Charleston
Crittendon, M. W. (1 TMt)*	Calhoun Falls
Crocker, B. E. (1 Ed)	Gaffney
Crocker, C. E. (3 TC)	Enoree
Crocker, D. E. (4 A&S)	Gaffney
Crocker, J. D. (2 CE)	Pacolet
Crocker, R. E. (1 Ent)	Spartanburg
Croen, E. F. (4 CrE)	Camden
Croft, C. J. (1 ME)*	Sumter
Crolley, R. E. (2 IM)	Columbia
Cromer, J. N. (3 ChE)	Anderson
Cromer, L. B. (1 ME)*	Belton
Crook, A. C. (1 CE)*	Charleston Heights
Crooks, T. L. (4 A&S)	Pomaria
Crosby, J. E. (1 IM)*	Charlotte, N. C.
Crosby, L. T. (1 EE)*	North Charleston
Cross, J. S. (2 A&S)	Conway
Crouch, A. B. (2 For)	Ward
Crouch, H. L. (1 CE)*	Batesburg
Crouch, R. H. (4 AH)	Batesburg
Crow, E. C. (1 IM)*	W. Palm Beach, Fla.
Crow, J. C. (3 ChE)	Charleston
Crowder, J. E. (1 For)*	Winnsboro
Crowell, R. T. (1 For)*	Orangeburg
Crowther, J. P. (1 IE)*	Anderson
Croxton, R. D. (3 AgE)	Kershaw
Crum, W. B. (2 Pre-Med)	Orangeburg
Crumpton, B. F. (3 Arch)	Greenville
Crumpton, P. A. (Unc)**	Clemson
Cullen, D. O. (2 ME)	Kensington, Md.

Name and Course	*Address*
Culler, O. C. (3 CrE)	Orangeburg
Cullum, W. O. (1 CrE)°	Columbia
Culp, J. R. (3 IM)	Chester
Cumbey, J. L. (3 Pre-Med)	Bennettsville
Cunningham, J. S. (2 For)	Greenville
Cureton, H. B. (1 IM)°	Greenville
Cureton, J. A. (4 For)	Greenville
Curlee, J. C. (1 ApMath),	Charlotte, N. C.
Curlee, T. O. (2 EE)	Greenville
Currie, R. B. (1 ME)°	Charlotte, N. C.
Currin, R. E. (G Agron)°°	Florence
Curry, R. P. (1 IM)°	Charlotte, N. C.
Custer, J. D. (1 CrE)°	Portsmouth, Ohio
Cuttino, C. L. (3 Pre-Med)	Sumter
Dacus, N. C. (1 EE)	Greer
Dadin, R. E. (2 EE)	Charleston
Dailey, G. F. (1 EE)°	Society Hill
Dalaklis, S. P. (3 EE)	Rock Hill
Dale, D. W. (4 IM)	Charlotte, N. C.
Dalton, C. E. (2 IM)	Pickens
Dalton, L. E. (2 A&S)	Salem
Dance, R. L. (1 IM)°	Aiken
Dance, T. A. (4 For)	Aiken
Daneshyar, Kazem (Unc)°°	Tehran, Iran
Daniel, M. F. (4 AH)	Clinton
Daniel, W. D. (3 A&S)	Anderson
Daniels, J. D. (4 A&S)	Greenville
Dannelly, H. C. (4 ME)	Ehrhardt
Dansby, J. C. (3 IM)	North Augusta
Dansby, R. F. (4 EE)	North Augusta
Dantzler, M. L. (1 AgE)	Vance
Darracott, Jefferson (1 ME)	Johnston
Davenport, C. O. (4 ChE)	Clinton
Davenport, O. F. (1 FdT)°,	Charlotte, N. C.
Davenport, P J. (1 Arch),	Stratford, Conn.
Davey, J. A. G. (4 A&S)—	Hendersonville, N. C.
Davidson, J. W. (3 TMt)	Chesterfield
Davidson, R. E. (1 TMt)°	Wellford
Davidson, W. T. (2 TMt)	Avondale, N. C.
Davis, C. E. (3 AH)	Charlotte, N. C.
Davis, C. L. (1 EE)°	Bishopville
Davis, D. R. (4 Phys)	Greenville
Davis, G. E. (2 IM)	Hickory, N. C.
Davis, H. M. (1 IM)°	Charleston
Davis, H. S. W. (1 EE)°	Johns Island
Davis, J. A. (1 Pre-Med)	Greenville
Davis, J. B. (G Chem)°,	St. Petersburg, Fla.
Davis, James E. (2 ChE)	Chester
Davis, Joseph E. (1 ME)°	Anderson
Davis, J. G. (1 EE)°	Greenwood
Davis, J. H. (4 Phys)	Clinton
Davis, J. M. (2 EE)	Pickens
Davis, J. R. (1 IM)°	Rock Hill
Davis, James W. (1 Phys)°	Piedmont
Davis, John W. (2 Pre-Vet)	Hartsville
Davis, L. R. (4 EE)	Wellford
Davis, M. E. (2 ChE)	Norway
Davis, O. W. (1 ChE)°	Aiken
Davis, W. C. (1 TMt)°	Greenville
Davis, W. F. (1 TMt)°	Laurens
Davison, W T. (2 Pre-Med)	Anderson
Dawes, M. F. (2 A&S)	Greenville
Dawkins, J. W. (4 ME)	Greenville
Dawsey, S. D. (2 AH)	Aynor
Day, E. C. (2 EE)	North Augusta
Day, K. W. (1 ME)°	North Charleston
Deadwyler, E. H. (1 Pre-Med)	Six Mile
Deal, D. E. (2 TC)	Walhalla
Deangelis, J. R. (1 A&S)°,	Glen Rock, N. J.
Deans, R. L. (1 CE)°	Charleston
Deans, S. R. (G Math)°	Goldsboro, N. C.
Deatcher, J. H. (1 Arch)°	Peekskill, N. Y.
DeBruhl, A. M. (3 ME)	Union
DeBruhl, J. C. (G AgEc)°°	Mauldin
Deems, P. S. (1 EE)°	Great Falls, Va.
Deer, J. A. (1 IM)°	Beaufort
DeHart, C. A. (2 EE)	Anderson
Deich, C. S. (3 EE)	Savannah, Ga.
Delk, L. S. (2 ME)	Mooresville, N. C.
DeLoach, J. G. (4 A&S)	Clemson
DeLoach, M. R. (1 For)	Hampton
DeMott, A. G. (4 Ed)	Montvale, N. J.
Dempsey, B. D. (1 Pre-Vet)	Varnville
Dempsey, D. P. (1 IM)	Taylors
Dempsey, W. J. (2 EE)	Taylors
Dempsey, W. L. (1 EE)	Alexandria, Va.
Denit, J. D. (2 AgE),	West Hyattsville, Md.
Dennis, C. W. (4 IM)	Beaufort
Derrick, N. J. (2 ME)	Columbia
Derting, C. W. (G Hort)°°	Hiltons, Va.
Des Jardins, J. R. (2 Phys)	Columbia
de Vallee, F. H. (2 Arch),	New York, N. Y.
DeVeaux, J. M. (4 IM)	Charleston
DeVita, P. M. (1 CrE)°	Charlotte, N. C.
DeWitt, B. B. (G Ed)°°	Lake City
DeWitt, J. W. (2 AgE)	Pamplico
DeWitt, T. L. (1 EE)°	Darlington
De Young, T. M. (2 EE)	Clinton
Dickens, W. A. (2 EE)	Easley
Dickerson, B. F. (2 A&S)	Hartwell, Ga.
Dickerson, C. M. (1 ME)°	Clayton, Ga.
Dickinson, J. K. (2 CE)	Richmond, Va.
Dickson, R. T. (1 E)°	Charlotte, N. C.
Dickson, T. G. (2 Pre-Vet)	York
Dill, D. O. (3 Biol)	Alexandria, Va.
Dill, R. J. (3 ME)	Greenville
Dillard, W C. (1 Pre-Med)°	North
Dillard, W. L. (1 Hort)°	Greer
Dillon, V. A. (4 IM)	Mt. Hope, W. Va.
Dimsdale, M. J. (4 InEd)	Seneca
Dixon, C. C. (5 Arch)	Mullins
Dixon, C. O. (2 IM)	Mullins
Dixon, F. D. (2 Arch)	Florence
Dixon, F. F. (3 TC)	Greer
Dixon, H. W. (1 CE)°	Greenville
Dixon, J. W. (3 IM)	Neenah, Wis.
Dixon, M. H. (2 A&S)°°	Cheraw
Dobbins, F. G. (2 IM)	Townville
Dobbins, R. C. (2 EE)°	Cliffside, N. C.
Dobbs, R. S. (1 Arch)	Miami, Fla.
Dobey, J. N. (2 EE)	Spartanburg
Dolinsky, L. T. (3 CE)	Brooklyn, N. Y.
Dombrowsky, D. A. (2 EE)—	Balboa, Canal Zone
Donahue, J. T. (1 TMt)	Aiken
Donnelly, W. P. (3 A&S)	Greenville
Dority, J. L. (1 EE)°	Hartsville
Dorman, G. E. (2 IM)	Fairforest
Dorn, G. N. (1 AH)°	McCormick
Dorn, J. C. (1 EE)°	Grovetown, Ga.
Dorn, P. C. (4 Ed)	McCormick
Dorn, W. Q. (1 CE)°	Greenville
Dorrell, A. L. (4 For)	Kingstree
Dorris, T. J. (1 E)°	West Columbia
Dorrity, J. L. (3 EE)	Charleston
Dorsey, J. H. (1 EE)	Seneca
Dosher, R L. (1 ME)	Charleston
Dost, W. L. (Unc)°°	Seneca
Dothcrow, W. A. (2 CE)	Inman
Dover, B. R. (1 IM)°	Lanford
Dover, C. E. (1 CE)°	Walhalla
Dowis, J. M. (1 EE)°	Ninety Six
Dowling, Decania (1 IE)°	Orangeburg
Dowling, J. H. (1 CE)°	Clio
Dowling, O. T. (3 ME)	Charleston
Dowling, W. A. (3 A&S)	Marion
Downing, R. C. (3 ME)	Montmorenci
Doyle, W. P. (1 AgEc)	Aynor
Drazen, G. H. (1 EE)°	Monmouth, N. J.
Drennon, H. L. (G Ed)°°	Pelzer
Driggers, M. S. (1 Arch)°	Hartsville
Drolet, M. R. (1 EE)°	Charleston
Drown, E. J. (1 E)°—	Jacksonville Beach, Fla.
Droze, E. A. (1 For)°	Charleston Heights
DuBard, W. L. (4 A&S)	Blythewood
Dubay, S. N. (2 IM)	Lancaster
DuBose, B. G. (4 Hort)	Bishopville
DuBose, D. T. (1 EE)	Oswego
DuBose, F. R. (1 CE)°	Columbia

Name and Course	Address
DuBose, J. A. (1 Agron)*	New Zion
DuBose, T. A. (2 A&S)	Clemson
DuBose, T. S. (1 ME)*	Altadena, Calif.
Duckworth, G. M. (1 CE)	Pelzer
Duff, J. T. (1 IM)*	Greenville
Dukes, D. L. (3 ApMath)	Norway
Dukes, Gene W. (1 AgE)*	Reevesville
Dukes, Glenn W. (1 ME)*	Anderson
Dukes, J. T. (1 EE)*	Waterloo
Dukes, L. M. (1 AgEd)	Branchville
Dukes, W. G. ((2 EE)	Bowman
Dulohery, C. J. (3 EE)	Savannah, Ga.
Dumas, C. E. (1 ME)*	Forsyth, Ga.
Dunagan, F. C. (3 ME)	Spartanburg
Dunagin, R. C. (2 EE)	Spartanburg
Dunbar, H. R. (3 IM)	Charleston
Dunbar, W. J. (1 IM)*	Salley
Duncan, A. R. (1 ME)*	Easley
Duncan, C. D. (4 TMt)	Enoree
Duncan, D. E. (1 EE)	Travelers Rest
Duncan, F. Y. (2 CrE)	Sharon
Duncan, J. C. (1 IE)*	Greenville
Duncan, J. T. (4 IM)	Rock Hill
Duncan, M. F. (3 ApMath)	Greenville
Dunkelberg, D. S. (4 A&S)	Clemson
Dunkelberg, R. H. (3 Pre-Med)	Clemson
Dunlap, F. A. (2 ME)	Rock Hill
Dunlap, W. M. (1 ME)*	Charlotte, N. C.
Dunning, E. W. (PG Arch)	Sparks, Md.
Dunsmoor, D. E. (3 ME)	Renton, Wash.
DuPre, A. T. (4 CE)	Mt. Pleasant
Durand, F. A. (1 IE)	Woodbury, Ga.
DuRant, J. A. (G Ent)	Lynchburg
Durham, G. H. (4 AgEd)	Piedmont
Durham, J. W. (1 IM)	Pickens
Duvall, S. E. (3 CE)	Greenville
Dworak, J. P. (1 Arch)*	Arlington, Va.
Dyar, J. R. (2 EE)*	Abbeville
Dyches, D. W. (1 Arch)	Norway
Dyches, F. D. (1 Biol)	Beaufort
Dyches, K. B. (3 IM)	Williston
Dyches, V. S. (2 Pre-Med)	Elloree
Dyches, W. H. (1 CE)*	Miami, Fla.
Dye, R. E. (2 CE)	Anderson
Ead, J. M. (G ME)*	Chicago, Ill.
Eaddy, D. W. (G Agron)**	Clemson
Eaddy, J. G. (2 Dairy)	Manning
Eaddy, N. O. (3 Phys)	Sumter
Eades, J. R. (2 CE)**	Liberty
Eady, J. G. (1 CE)	La Grange, Ga.
Eargle, E. S. (3 AgEd)	Leesville
Eargle, L. M. (1 TMt)	Leesville
Earle, E. P. (2 ChE)	Greensboro, N. C.
Earle, J. E. (G TC)**	Walhalla
Easterlin, W. W. (2 For)	Walterboro
Eaton, J. W. (1 CE)*	Greenville
Eavenson, J. N. (1 IM)	Winder, Ga.
Eaves, F. B. (1 CrE)*	Barnwell
Eberhart, T. R. (4 A&S)**	Tarentum, Pa.
Eckard, W. F. (4 Phys)	Charlotte, N. C.
Eddings, J. A (4 CE)	Carbondale, Ill.
Edens, D. D. (G Ed)**	Pendleton
Edens, E. G. (1 EE)	Charleston Heights
Edens, R. J. (1 IM)	Moncks Corner
Edge, L. B. (1 EE)*	Conway
Edmonds, H. B. (2 CE)	Anderson
Edmundson, D. B. (1 ChE)	Clinton, Md.
Edwards, D. V. (3 CrE)	Dallas, Tex.
Edwards, E. L. (1 TC)*	Rock Hill
Edwards, H. G. (2 EE)	Belle Glade, Fla.
Edwards, J. B. (3 IM)	Dallas, Tex.
Edwards, J. R. (1 IM))*	Charleston
Edwards, J. T. (1 EE)*	Duncan
Edwards, J. W. (2 EE)	Crescent Beach
Edwards, L. R. (G AgEd)	Landrum
Edwards, T. D. (4 AH)	Elloree
Edwards, T. E. (4 IM)	Greenville
Edwards, T. M. (2 EE)	Saluda
Effler, R. H. (1 IM)*	Greenville
Efird, J. S. (2 IM)	Memphis, Tenn.

Name and Course	Address
Efird, T. E. (2 EE)	Charlotte, N. C.
Efird, W. C. (1 ME)*	Lexington
Ehni, F. M. (2 Arch)	Charleston
Eidson, E. J. (1 EE)*	Graniteville
Eikenbary, R. D. (G Ent)*	Idabel, Okla.
Elder, K. L. (3 EE)	Greenville
Elias, R. G. (2 Arch)	Bennettsville
Ellett, R. T. (3 A&S)	Charlotte, N. C.
Elliott, H. L. (1 CE)*	Camden
Elliott, R. P. (G Chem)	Indianapolis, Ind.
Ellis, B. D. (3 IM)	Waynesboro, Ga.
Ellis, J. E. (3 ME)	Earl, N. C.
Ellis, J. L. (1 ME)*	Lancaster
Ellis, R. C. (3 For)	Aiken
Ellis, R. W. (3 TC)	Huntersville, N. C.
Ellis, W. R. (4 Phys)	Greenville
Ellison, D. W. (1 TMt)	Aiken
Ellison, T. M. (G Chem)	Spartanburg
Ellisor, D. B. (3 For)	Irmo
Elmore, W. H. (1 ChE)*	Taylors
Elrod, K. C. (1 Dairy)	Greenville
Elrod, W. H. (1 Arch)*	Travelers Rest
Elsey, J. I. (3 ChE)	Charleston
Embler, E. T. (2 Pre-Med)	Anderson
Embler, M. J. (3 Ed)	Townville
Engel, K. F. (3 Ed)	Edgewater, N. J.
Enter, J. M. (1 ApMath)*	Andrews
Entrekin, W. N. (1 TMt)	Fairfax, Ala.
Epting, R. A. (4 A&S)	Clemson
Eskridge, R. F. (1 CrE)*	Cheraw
Estes, A. S. (2 TC)	Union
Estes, D. A. (2 A&S)	Abbeville
Estridge, W. J. (2 TS)	Kershaw
Ethridge, O. A. (1 Pre-Med)*	Greenwood
Etters, C. W. (1 ChE)*	Lancaster
Etters, J. N. (G TC)	Chester
Eubanks, K. A. (1 TMt)*	Lyman
Eudy, B. L. (1 Chem)	Florence
Evans, C. E. (1 InEd)	Jeannette, Pa.
Evans, C. M. (1 E)*	Pamplico
Evans, H. M. (2 IM)	Belton
Evans, J. C. (1 ME)*	Atlanta, Ga.
Evans, L. S. (1 ME)	Charleston
Evans, R. D. (1 ChE)	Anderson
Evans, R. M. (1 E)*	St. George
Evans, R. T. (1 ME)*	Charleston Heights
Evans, W. H. (1 ME)*	Atlanta, Ga.
Evers, J. R. (1 ME)*	McColl
Every, J. G. (3 CrE)	York
Ezell, D. O. (4 AgEd)	Chesnee
Fagan, J. A. (4 Biol)	Campobello
Fallaw, J. E. (2 IM)	Belvedere
Falls, F. C. (1 EE)*	Clover
Fanning, C. C. (1 A&S)	Laurens
Faris, E. S. (2 EE)	Clover
Faris, H. M. (2 Pre-Med)	Laurens
Farmer, J. G (1 A&S)*	Columbia
Farmer, J. P. (2 AgEd)	Florence
Farmer, J. Q. (4 AgE)	Florence
Farmer, S. M. (1 AgEd)*	Florence
Farmer, V. J. (2 IM)	Florence
Farnell, E. A. (1 For)*	Clinton
Farr, W. W. (3 IM)	Augusta, Ga.
Faulkenberry, P. G. (1 ChE)*	Camden
Faulkner, S. W. (2 IE)	Gastonia, N. C.
Feemster, R. E. (1 EE)	McConnells
Feemster, W. W. (1 Pre-Med)*—	McConnells
Feichter, M. E. (2 CE)	Waynesville, N. C.
Feinstein, Paul (2 ME)	Spartanburg
Felkel, J. H. (1 ChE)*	North Charleston
Felton, L. T. (3 EE)	Charleston
Fennessy, R. J. (2 EE)	Charleston Heights
Ferguson, J. E. (4 IE)	Seabrook
Ferguson, S. T. (4 AH)	York
Ferguson, W. P. (1 For)*	Sharon
Fernandez, John (1 IM)*	Elberton, Ga.
Ferree, M. E. (1 Hort)*	Clemson
Ferree, R. L. (3 Pre-Med)	Clemson
Ferrer, Armando (2 A&S)	Mariano, Cuba

Name and Course	*Address*
Few, J. D. (2 Phys)	Easley
Field, D. H. (4 ME)	Easley
Filyaw, W. P. (1 ME)*	Charleston
Finch, M. H. (2 Arch)	Takoma Park, Md.
Fincher, H. T. (4 Ed)	Columbia
Findley, W. E. (2 EE)	Pickens
Finley, C. M. (3 ME)	Slater
Finley, W. C. (3 AH)	Laurens
Firth, T. K. (1 Pre-Med)*	Anderson
Fish, G. B. (1 E)*	Greenwood
Fishbein, H. H. (2 Arch),	Great Neck, N. Y.
Fisher, G. R. (1 IM)	Lyman
Fisher, L. L. (3 EE)	Hickory, N. C.
Fisher, R. F. (2 IM)	Piedmont
Fisk, L. R. (1 EE)*	Charleston
Flanders, L. D. (2 A&S)	Winnsboro
Fleming, M. J. (1 Hort)	Aleolu
Fletcher, M. E. (2 IM)**	Anderson
Florey, B. F. (2 A&S)*-**,	Tuscaloosa, Ala.
Flowers, B. J. (4 TMt)	Lancaster
Flowers, C. R. (2 AgE)	Sanford, Fla.
Floyd, D. R. (2 ApMath)	Lancaster
Floyd, J. B. (4 EE)	Charleston
Floyd, R. J. (1 IM)	Pelzer
Floyd, S. W. (3 IM)	Greenville
Flynn, K. J. (1 EE)*	Etowah, N. C.
Flynn, W. A. (1 ChE)*	Charleston
Fogle, J. B. (4 ChE)	Cameron
Fogle, J. R. (2 ChE)	Anderson
Fogle, J. W. (1 IM)	Lamar
Fogle, K. A. (1 CE)	North
Fogle, L. B. (1 Ed)	Franklin, Pa.
Folendore, D. R. (1 IM)	Timmonsville
Folk, H. F. (4 CrE)	Fairfax
Folk, J. C. (1 For)	Denmark
Folsom, D. K. (1 For)*	North Augusta
Ford, E. E. (1 E)*	Greenville
Ford, P. T. (2 IM)	Dillon
Ford, S. W. (2 TMt)	Warrenville
Ford, W. F. (1 E)*	Charlotte, N. C.
Fore, L. B. (4 AgEd)	Latta
Forehand, H. M. (3 Phys)	Greenville
Forest, R. P. (4 TMt)	Greenville
Forrest, C. O. (1 A&S)*	Easley
Forrester, D. T. (1 Arch)*	Greenville
Fort, L. H. (1 IM)*	Sumter
Forte, T. W. (1 EE)	Florence
Foster, D. C. (1 EE)*	Aiken
Foster, F. E. (4 IM)	Greenville
Foster, J. D. (1 ME)*	Piedmont
Foster, L. E. (4 TMt)	Seneca
Foster, L. W. (2 EE)	Spartanburg
Foster, M. D. (2 IE)*	Asheville, N. C.
Fousek, C. E. (1 TMt)	Townville
Fowler, C. L. (1 TMt)*	Duncan
Fowler, C. W. (3 IM)	Rock Hill
Fowler, J. D. (2 Phys)	Bennettsville
Fowler, J. E. (1 A&S)	Wagner
Fowler, M. L. (2 EE)	Charleston
Fowler, R. B. (1 IM)*	Atlanta, Ga.
Fowler, R. H. (1 A&S)*	Albany, Ga.
Fox, E. H. (4 CE)	Greer
Fox, E. J. (2 Pre-Vet)	Walterboro
Fox, J. E. (2 EE)	Liberty
Fox, R. L. (1 E)*	Bowman
Foxworth, B. K. (4 AgEd)	Dillon
Foxworth, M. C. (1 TMt)	Mullins
Frady, A. R. (4 A&S)	Townville
Frady, R. R. (1 EE)	Cowpens
Frady, S. E. (2 IM)	Lyman
Fraley, R. W. (3 Dairy)	Florence
Fralick, O. H. (4 For)	Walterboro
Fralick, T. R. (3 CE)	Bamberg
Frampton, E. G. (1 EE)*	Varnville
Frankhouser, J. R. (3 AgEc),	Reedsville, Pa.
Frankhouser, P. K. (3 A&S)**	Clemson
Franklin, B. T. (1 ME)*,	Jacksonville, Fla.
Frasca, Anthony (3 CE)	Lynn, Mass.
Free, G. J. (1 IM)*	Greenwood
Freeland, J. R. (1 For)	Greenwood
Freeman, A. L. (2 Arch)	Greenville
Freeman, C. R. (2 Chem)	Sumter
Freeman, J. P. (1 TMt)*	Covington, Ga.
Freeman, J. S. (2 EE)	Westminster
Freeman, M. M. (1 Arch)*—	West Asheville, N. C.
Freudenberg, P. A. (1 Arch)*—	Moorestown, N. J.
Frick, C. W. (3 CrE)	Lexington
Frick, F. T. (2 CrE)	Newberry
Frick, J. E. (3 AgEd)	Chapin
Frick, T. R. (1 A&S)	Columbia
Fritz, R. V. (2 TMt)	Asheboro, N. C.
Frost, L. J. (2 Chem)	Belton
Frye, J. O. (4 AgEc)	Galivants Ferry
Fudge, D. M. (1 IM)	Lyman
Fuller, J. T. (4 ME)	Columbia
Fuller, J. W. (1 A&S)	Barnwell
Fuller, L. B. (G Ed)*-**	Greenwood
Fulmer, L. C. (1 Pre-Med)*	Columbia
Fulmer, R. W. (1 ChE)	Leesville
Fulton, R. W. (1 A&S)*	Walterboro
Funderburk, O. F. (4 EE)	Greenville
Funderburke, C. A. (1 TC)*	Rock Hill
Funk, W. S. (1 IM)*	Kingstree
Furr, M. W. (1 IM)*	Walterboro
Gable, J. E. (3 AgEd)	Belton
Gable, P. K. (3 AgEc)	Belton
Gaddy, J. H. (2 CrE)	Dillon
Gaeta, A. G. (2 ME)	East Orange, N. J.
Gaffney, C. M. (2 CE)	Clinton
Gaillard, C. E. (1 A&S)*	Seneca
Gainey, J. W. (2 ChE)	Hartsville
Gallaher, W. R. (1 Arch)*,	Waynesboro, Va.
Galloway, R. C. (2 AH)	Easley
Gamble, J. S. (2 EE)	Greenville
Gamble, R. K. (1 For)	Kingstree
Gambrell, L. A. (3 AgEc)	Pendleton
Gandy, J. H. (2 Arch)	Lake City
Ganis, M. D. (1 AgEd)*	Loris
Gantt, D. C. (1 For)*	Wagener
Gardner, R. K. (3 ME)	Hartsville
Garges, J. H. (1 Arch)	Charlotte, N. C.
Garland, D. H. (1 InEd)	Tamassee
Garland, M. M. (G Phys)*—	Clarksville, Tenn.
Garner, R. T. (3 InEd)	Greenville
Garren, F. G. (1 IM)*	Taylors
Garrett, B. P. (4 A&S)	Fountain Inn
Garrett, C. E. (2 EE)	Woodruff
Garrett, D. R. (2 IM)	Taylors
Garrett, J. S. (1 A&S)*	Six Mile
Garrett, P. M. (4 ME)	Anderson
Garrison, A. W. (G Chem)**	Taylors
Garrison, C. E. (4 IM)	Greenville
Garrison, C. H. (4 CE)	Fort Mill
Garrison, G. E. (Unc)*	Clemson
Garrison, R. C. (1 A&S)**	Clemson
Garrison, R. G. (2 ME)	Chester
Garrison, R. H. (1 Agron)	Anderson
Garrison, T. R. (2 IM)	Anderson
Garrison, W. G. (4 Ed)	Anderson
Garvin, E. E. (1 Arch)*	North Charleston
Garwood, S. G. (3 A&S)	Cedartown, Ga.
Gaschler, C. F. (1 EE)*	Greenville
Gaskill, K. V. (3 EE)	Central
Gaskin, G. O. (1 EE)*	Greenville
Gaskins, D. R. (1 CE)*	Pamplico
Gasque, J. S. (1 IM)*	Myrtle Beach
Gaston, R. P. (1 Dairy)*	Woodruff
Gaston, W. C. (2 A&S)	Greenville
Gatch, J. D. (1 ME)	Beaufort
Gatlin, L. E. (1 Pre-Med)	Newberry
Gatta, D. J. (1 A&S)	Allenhurst, N. J.
Gause, L A. (2 Dairy)	St. Stephen
Gauthier, M. J. (1 CE)*	Sumter
Gavin, R. B. (1 A&S)*	Charleston
Geddings, J. J. (3 EE)	Spartanburg
Geddings, W. T. (1 A&S)*	Manning
Geibel, B. B. (2 Arch)	Columbia
Genois, E. R. (1 CE)*	Charlotte, N. C.

Name and Course	*Address*
Gentry, D. R. (G)**	Clemson
Gentry, F. D. (PG Ed)**	Seneca
Gentry, F. L. (2 ApMath)	Clemson
George, D. P. (2 IM)	Laurens
George, E. D. (4 IM)	Aiken
George, K. W. (1 ChE)*	Charleston
George, M. A. (1 TC)*	Laurens
Gerard, W. F. (1 AgE)*	El Paso, Tex.
Gerisch, R. M. (1 IM)*	Piedmont
Gerst, R. E. (2 IM)	Pittsburgh, Pa.
Gettys, J. R. (3 CrE)	McCormick
Gettys, N. P. (1 A&S)	Lugoff
Gibbons, E. M. (2 EE)	Columbia
Gibbons, W. W. (2 Ed)	McKeesport, Pa.
Gibson, B. M. (G Chem)	Greenville
Gibson, D. B. (1 AgE)*	Spartanburg
Gibson, D. C. (1 EE)*	Union
Gibson, H. G. (1 CE)**	Walhalla
Gibson, J. D. (1 IM)*	Lancaster
Gibson, J. H. (2 EE)	Lockhart
Gibson, J. S. (1 EE)*	Sumter
Giebner, G. H. (3 ApMath)	Greenville
Gilbert, D. P. (2 EE)	Pensacola, Fla.
Gilbert, J. F. (1 ME)*	Piedmont
Gilchrist, G. R. (4 TMt)	Sharon
Gilliam, D. E. (4 ME)	Brevard, N. C.
Gilliam, L. R. (G Math)	Gibsonville, N. C.
Gilliam, R. T. (G TC)	Sumter
Gilliland, A. D. (3 Arch)	Kings Mountain, N. C.
Gillingham, J. T. (G Agron)*	Clemson
Gilreath, J. A. (1 Arch)*	Greenville
Gilreath, J. D. (1 EE)	Belton
Gilstrap, A. E. (1 Arch)	Greenville
Gilstrap, B. J. (4 TS)	Belton
Gilstrap, L. G. (1 Pre-Med)*	Liberty
Ginn, R. J. (3 TMt)	Columbia
Givens, W. E. (1 ME)*	Anderson
Gladden, J. N. (1 A&S)*-**	Clemson
Gladden, W. P. (G AgE)**	Clemson
Glasgow, J. J. (1 TMt)	Conway
Glasgow, M. S. (G Ed)**	Greenwood
Glass, F. H. (1 ME)*	Spartanburg
Glass, J. W. (1 IM)**	Seneca
Glaze, C. O. (3 IM)	Charleston
Glekas, Demetrios (3 EE)	Lakonia, Greece
Glenn, G M. (2 EE)	Greer
Glenn, L. M. (1 IM)	Abbeville
Glenn, S. A. (2 Dairy)	Fair Play
Glezen, J. W. (1 ChE)*	Cheraw
Glisson, J. D. (1 ChE)*	McCormick
Glover, M. B. (1 Phys)*	Walterboro
Glover, R. H. (2 EE)	Greenville
Glover, W. H. (1 InEd)	Orangeburg
Gobbel, J. W. (2 CE)	Danville, Va.
Goblet, G. R. (3 ME)	Mt. Pleasant
Godfrey, J. F. (2 IM)	Columbia
Godwin, J. E. (1 ME)	Greenville
Goff, D. W. (2 ME)	Saluda
Goff, R. A. (1 ME)*	Columbia
Goforth, C. L. (1 E)*	Gaffney
Goforth, J. E. (3 EE)	Gaffney
Goins, R. E. (3 ME)	Charlotte, N. C.
Golden, R. W. (2 IM)	Newberry
Goldman, E. W. (1 IM)*	Greenwood
Goldman, P. M. (1 IM)*	Cincinnati, Ohio
Goley, G. B. (3 A&S)	Seneca
Golightly, D. E. (1 Arch)	Columbia
Gongos, D. N. (1 EE)*	Charleston
Gooding, D. F. (1 E)*	Hampton
Gooding, T. L. (1 CE)*	Hampton
Goodson, J. A. (3 ChE)	Darlington
Goodson, P. G. (2 Arch)	Charlotte, N. C.
Goodson, R. R. (1 For)*	Lexington
Goodson, T. H. (3 IM)	Hartsville
Goodwin, H. P. (4 IM)	Greenville
Goodwin, L. J. (1 TMt)	Greenville
Gore, J. E. (3 AgEd)	Galivants Ferry
Gore, W. E. (2 Pre-Med)	Columbia
Gosnell, T. D. (1 IM)	Johns Island
Gosnell, W. K. (2 EE)	Johns Island
Goss, D. W. (1 For)*	Monetta
Gossett, F. R. (1 IM)*	Greenville
Gossett, R. W. (4 TMt)	Fort Mill
Gould, V. R. (1 IM)*	North Augusta
Gowan, H. W. (1 CE)*	Greenville
Grace, R. A. (1 ChE)	Aiken
Grace, R. D. (4 A&S)	McKeesport, Pa.
Graham, B. C. (4 Agron)	Nichols
Graham, C. G. (4 ME)	Seneca
Graham, D. L. (4 IM)	Greenville
Graham, J. B. (4 Agron)	Chester
Graham, L. C. (1 Hort)	Seneca
Graham, M. T. (1 CrE)	Greenville
Graham, T. F. (2 A&S)	Anderson
Graham, W. O. (1 IM)	Latta
Gramling, R. G. (1 For)	Orangeburg
Gramling, R. O. (1 AH)	Orangeburg
Grant, C. A. (2 IM)	Spartanburg
Grant, C. B. (1 CE)	Whitmire
Grant, C. D. (3 Arch)	Greenville
Grant, C. G. (3 IM)	Chester
Grant, T. D. (3 A&S)	Ninety Six
Grant, Z. B. (3 A&S)	Cheraw
Grantham, L. D. (3 IM)	Dillon
Grastie, L. J. (2 EE)	Greenville
Gravely, J. W. (3 IM)	Walhalla
Gravely, M. K. (4 For)	Seneca
Graves, A. B. (2 Agron)	Frogmore
Graves, J. T. (1 A&S)	West Columbia
Graves, P. B. (1 Pre-Vet)	Charleston
Graves, R. C. (2 ApMath)	Pageland
Gray, A. M. (2 CE)	Greenville
Gray, C. H. (4 Hort)	Inman
Gray, D. P. (2 ME)	Myrtle Beach
Gray, H. B. (2 Agron)	Allendale
Gray, J. R. (1 TS)*	Greenville
Gray, M. P. (1 ME)	Greenville
Gray, N. P. (4 IM)	Clemson
Gray, R. H. (3 ME)	Abingdon, Va.
Grayson, G. P. (2 ME)	North Charleston
Green, E. A. (3 A&S)	Dillon
Green, E. L. (1 ChE)*	Duncan
Green, F. L. (2 CE)	Bishopville
Green, W. M. (1 For)*	Greenville
Greenberg, A. S. (1 InEd)	Brooklyn, N.Y.
Greene, C. B. (2ME)*	Awendaw
Greene, J. B. (1 TMt)	Greer
Greenman, R. B. (3 IE)	Beaufort
Greenway, G. D. (1 TMt)	Henderson, N. C.
Greer, R. B. (4 CrE)	Fairforest
Greeson, P. C. (2 ChE)	Greenwood
Greeson, T. D. (3 TS)	Greenwood
Gregg, B. A. (2 CE)	Florence
Gregory, F. M. (2 Poul)	Union
Gregory, J. E. (4 IM)	Santuck
Gregory, J. V. (1 Agron)	Jefferson
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Griffin, J. G. (1 Pre-Med)*	Greenville
Griffin, J. L. (2 TMt)	Fort Mill
Griffin, J. P. (2 Ed)	Clemson
Griffin, R. Warner (4 TMt)	Lancaster
Griffin, Robert W. (2 IM)	Florence
Griffin, S. W. (3 ChE)	Fort Mill
Griffin, W. F. (1 ME)*	Cowpens
Griffith, G. F. (2 EE)	Rock Hill
Griffith, J. D. (1 Chem)*	Greenville
Griffith, S. H. (1 For)*	Winter Garden, Fla.
Griffith, W. B. (4 IM)	Greenville
Griggs, F. S. (2 ChE)	Union
Griggs, J. W. (1 ME)*	Cowpens
Grimball, P. C. (1 EE)*	Johns Island
Grimball, T. P. (1 E)*	Greenville
Grindley, W. C. (3 Arch)	Beaufort
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Grooms, E. M. (1 Pre-Vet)*	Lugoff
Groover, D. S. (2 EE)	Florence
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Handegan, J. D. (1 E)* Walterboro
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Hare, R. L. (3 For) Ward
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Harrelson, W. B. (1 AgEd)* Mullins
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Harris, J. C. (1 EE) Walhalla
Harris, J. E. (4 CE) Fort Mill
Harris, L. R. (1 Hort) York
Harris, R. A. (3 CrE)** Walhalla
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Harrison, J. C. (1 TMt) Landrum
Harrison, R. E. (Unc) Seneca
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Henderson, J. T. (4 TMt) .... Laurens
Henderson, R. G. (3 EE) .... Augusta, Ga.
Henderson, R. L. (1 EE)* .... Atlanta, Ga.
Henderson, T. F. (1 ME)* ..... Charleston
Henderson, W. E. (1 TMt) .... Atlanta, Ga.
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Hendrix, L. J. (3 TS) .... McBee
Hendrix, T. C. (3 CE) .... Charlotte, N. C.
Hendrix, W. C. (1 ME)* .... Conetee
Henry, R. D. (2 CE) ...... North Augusta
Henson, J. P. (1 IM) .... Atlanta, Ga.
Hentz, E. O. (1 AgE) .... Little Mountain
Herin, F. E. (4 EE) .... Greenwood
Herlong, H. K. (3 A&S) .... Manning
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Heselbarth, J. D. (2 AH) ... Pittsburgh, Pa.
Hester, C. W. (4 ME) .... Clemson
Hester, R. H. (1 Pre-Vet)* .... Union
Hester, S. H. (1 Pre-Med)* .... Union
Hewitt, G. R. (3 EE) .... Rock Hill
Hewitt, J. T. (2 EE) .... Rock Hill
Hewitt, R. J. (1 AH) .... Florence
Hickman, G. W. (1 A&S)* .... Green Pond
Hicks, D. W. (3 ME) .... Gaffney
Hicks, R. C. (1 E)* .... Timmonsville
Hiers, L. A. (1 E)* .... Ehrhardt
Hiers, W. M. (1 EE)* .... Olar
High, E. E. (G Chem)*-** .... Gaffney
Hightower, J. L. (3 CE) .... Bamberg
Hiles, R. A. (1 TC)* ..... Asheville, N. C.
Hill, A. H. (2 EE) .... Spartanburg
Hill, David R. (2 TS) .... Sumter
Hill, Donald R. (1 IM)* .... Greenville
Hill, E. W. (1 EE)* .... Charleston
Hill, J. D. (3 EE) .... Anderson
Hill, J. K. (2 For) .... Moncks Corner
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Hill, R. P. (2 CE) .... Gastonia, N. C.
Hill, S. G. (1 Arch)* .... Spartanburg
Hill, S. J. B. (2 For) .... Cross Hill
Hill, W. N. (2 AgEd) ...... Timmonsville
Hilla, A. P. (4 A&S) ...... Belleville, N. J.
Hilley, D. R. (1 TS) .... Calhoun Falls
Hilley, M. E. (G ME)** ...... Greenwood
Hilliard, R. G. (1 EE)* .... Anderson
Hills, G. F. (1 Hort) .... Johns Island
Hilton, R. E. (2 EE) .... Winnsboro
Himelright, L. K. (1 ChE)* .... Charleston
Himiob, Alfredo (5 Arch)— Washington, D. C.
Hind, A. T. (2 ApMath) .... Clemson
Hindman, W. J. (1 CE)* ...... Rock Hill
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Hines, R. B. (3 Hort) .... Fairforest
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Hinson, L. C. (3 IE) .... Clemson
Hiott, J. M. (4 Phys) .... Easley
Hipp, C. G. (2 ME)* .... Gray Court
Hitchcock, A. W. (1 ME)* ..... Abbeville
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Hodges, J. W. (1 ChE)* ...... Ware Shoals
Hodges, R. L. (1 IM)* ...... Orangeburg
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Hoffmeyer, G. H. T. (1 ChE)* ... Hartsville
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Holcombe, E. L. (2 ME) ...... Greenville
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Holley, C. E. (4 TMt) .... Aiken
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Humphries, R. R. (3 A&S)	Union
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Hunt, O. L. (G Chem)°°	Easley
Hunt, P. G. (1 For)°	Oakboro, N. C.
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Hunt, W. A. (4 Ed)	North Charleston
Hunter, C. D. (2 CE)	Anderson
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Hursey, M. J. (4 ME)	North Charleston
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Hutto, C. W. (1 EE)	Patrick
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Inabinet, L. G. (1 AH)°	Orangeburg
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Irick, Virgil (1 CrE)°	Vance
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Jacobs, B. E. (1 Agron)	Hemingway
Jacobs, J. E. (1 ChE)°	Fort Mill
Jacobs, L. G. (1 ChE)	Charlotte, N. C.
Jacques, J. W. (2 EE)	Charleston
Jahnke, T. L. (2 Chem)	Camden
James, D. R. (1 CE)	Clemson
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James, G. R. (1 CE)	Liberty
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James, M. B. (4 A&S)	Anderson
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Jaskwhich, M. F. (2 ChE)	Greenville
Jastremski, J. M. (3 CE)	Baltimore, Md.
Jaycocks, E. S. (1 Chem)°	McClellanville
Jeffcoat, D. E. (4 EE)	Fairfax
Jeffcoat, J. M. (3 CrE)	Orangeburg
Jeffcoat, W. E. (1 AgE)	North
Jefferies, F. B. (1 Arch)°—	Scotch Plains, N. J.
Jenison, W. D. (4 IE)°°	Langley
Jenkins, C. W. (2 ChE)	North Augusta
Jenkins, R. P. (4 CE)	Mayo
Jennings, D. K. (1 Pre-Vet)°—	Asheville, N. C.
Jennings, L. H. (2 Arch)	Union
Jennings, V. J. (3 IM)	Warrenville
Jeter, C. R. (3 Pre-Med)	Carlisle
Jewell, C. E. (G Phys)	Oak Grove, Ky.
Jewell, D. D. (1 Arch)	Spartanburg
Johnson, C. B. (1 EE)	Easley
Johnson, F. A. (4 TMt)	Greenville
Johnson, H. O. (3 Arch)	Savannah, Ga.
Johnson, J. M. (2 TMt)	Cornelia, Ga.
Johnson, J. P. (2 ChE)	Spartanburg
Johnson, K. W. (3 For)	Chesterfield
Johnson, M. K. (2 IM)	Taylors
Johnson, R. C. (5 Arch)	Orangeburg
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Johnson, Robert Lewis (1 A&S)°	Aiken
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Johnson, W. L. (1 TC)	Graniteville
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Johnston, W. G. (3 AH)	Columbus, Ga.
Jolley, G. C. (3 AgEd)	Chesnee
Jones, A. L. (4 IM)	Tryon, N. C.
Jones, C. L. (4 CrE)	Blackville
Jones, C. T. (2 CE)	Iva
Jones, Edward (1 Arch)°	Arlington
Jones, E. V. (2 Hort)	Easley
Jones, G. P. (1 AH)	Duncan
Jones, H. H. (3 Hort)	Easley
Jones, J. C. (1 Arch)°	Princeton, N. J.
Jones, J. J. (2 IM)	Orlando, Fla.
Jones, J. R. (2 ChE)	Greenville
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Jones, L. S. (2 IM)	Dunellen, N. J.
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Jones, R. F. (4 A&S)	West Union
Jones, R. G. (1 ME)°	Cameron
Jones, R. N. (1 AgEc)°	Easley
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Jones, T. L. (1 EE)°	North Augusta
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Jones, W. R. (2 EE)	Seneca
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Josey, C. W. (1 AgE)°	Lynchburg
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Kirk, W. A. (1 E)* . . . . Lancaster
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Krajack, E. T. (1 Ed) . . . . McKeesport, Pa.
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Lam, E. R. (1 AgEd) . . . . Elkton, Va.
Lamb, J. D. (2 For)* . . . . Inman
Lambert, C. R. (3 EE) . . . . Hartsville
Lamberth, A. G. (2 EE)* . . . . . . Belvedere
Landon, C. H. (1 Poul)* . . . . . Laurel, Del.
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Laney, J. T. (3 IM) . . . . Camden
Lanford, B. L. (1 For)* . . . . Woodruff
Lanford, J. M. (1 IM)* . . . . Greenwood
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Law, R. W. (1 CE)* . . . . Bishopville
Law, W. P. (2 EE) . . . . Columbia
Lawrence, B. J. (1 IM)* . . . . Clemson
Lawrence, C. R. (3 IM) . . . . Central
Lawrence, W. C. (2 IM) . . . . Spartanburg
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Lawson, T. G. (4 TMt) .... Chester
Lawter, D. R. (1 CE)* .... Campobello
Lawton, E. L. (1 ME)* ...... Greenwood
Lawton, F. A. (1 For)* ...... Greenville
Lawton, R. E. (1 For)—
Carlisle Barracks, Pa.
Lazenby, W. B. (1 CE) .... Greenville
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Leaird, C. H. (3 IM) .... Jefferson
Leaptrott, W. M. (2 CE)—
Ponte Vedra Beach, Fla.
Leard, B. R. (4 A&S) ...... Westminster
Leard, J. D. (2 A&S)* ...... Westminster
LeCroy, J. G. (1 TMt) .... Williamston
Ledbetter, J. B. (1 ChE)* .... Belton
Ledesma, R. E. (2 Pre-Med)*—
Santurce, Puerto Rico
Ledford, C. M. (2 TMt) ...... Spartanburg
Ledford, J. G. (1 CE)* .... Mayo
Lee, C. K. (2 CE) .... Hong Kong
Lee, F. G. (1 IM) .... Westminster
Lee, G. E. (1 E)* .... Walhalla
Lee, H. H. (3 EE) .... Barnwell
Lee, J. H. (5 Arch) .... Georgetown
Lee, J. D. (1 EE) .... Bishopville
Lee, J. E. (2 A&S) .... Manning
Lee, L. E. (1 ChE)* ...... North Augusta
Lee, M. L. (1 TMt)* .... Walhalla
Lee, P. G. (1 Phys)* .... Bowman
Lee, R. Earle (1 For)* .... Sumter
Lee, R. Edward (1 EE) .... North Augusta
Lee, R. H. (1 TMt) .... Anderson
Lee, W. D. (3 Phys) .... Camden
Lee, W. S. (4 CrE) .... Bishopville
Lehecka, J. A. (1 CE) .... Rock Hill
Leibrock, F. R. (3 CE) .... Newport, Tenn.
Leith, G. F. (1 Arch)* .... Roseland, N. J.
Leitner, O. D. (4 Arch) .... Columbia
Leitzsey, H. J. (2 A&S), Silver Spring, Md.
Leland, E. C. (1 EE) ...... Saluda, N. C.
LeMaster, H. S. (2 TMt) .... Union
Lemon, Rodman (1 Pre-Med) ... Barnwell
Lenney, S. D. (3 EE) ...... Merrick, N. Y.
Lenning, A. J. (2 ME) ...... Greenwood
Lentz, H. D. (1 IM)* .... Johnsonville
Leonard, W. C. (4 IM) .... Greer
Leonardi, J. B. (1 A&S)* ..... Walterboro
Leshock, J. J. (4 IE) ..... Greensburg, Pa.
Lesley, D. J. (2 CiE) .... Easley
Leslie, J. L. (2 Phys) .... Abbeville
Lesslie, R. G. (2 ChE) .... Fort Lawn
Lever, J. P. (1 TMt) .... Clemson
Levy, E. A. (1 ME)*, Hendersonville, N. C.
Lewis, C. T. (1 TMt)* .... Newberry
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North Plainfield, N. J.
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Lewis, Richard (1 TMt)*, Eastchester, N. Y.
Lewis, R. S. (1 E)* .... Newberry
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Lewis, W. K. (1 EE)* .... Hartsville
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Liberty, S. P. (2 A&S) .... Clemson
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Ligon, T. T. (1 A&S) .... Pickens
Linder, R. T. (1 EE)* .... Charleston
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Lindsay, J. E. (3 Hort) .... Gastonia, N. C.
Lindsay, J. T. (1 CrE) .... Clemson
Lindsay, R. S. (3 CE) .... Gastonia, N. C.
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Little, L. F. (1 Pre-Med)* ...... Abbeville
Little, R. G. (3 ApMath) .... Florence
Little, W. W. (2 EE) .... Greenville
Littlejohn, J. B. (1 EE)* .... Lexington
Littleton, E. L. (1 EE) .... Easley
Littleton, H. E. (3 A&S) .... Hartsville
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Liverman, R. B. (4 A&S) ...... Lexington
Livingston, A. L. (2 TMt) ...... Columbia
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Lloyd, J. W. (4 Ed) .... Edgefield
Lloyd, J. C. (2 A&S) .... Edgefield
Loadholt, C. B. (4 Agron) .... Fairfax
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Lollis, D. E. (3 For) .... Belton
Lollis, F. M. (1 AgEd)* ..... Ware Shoals
Lollis, F. W. (2 Ent) .... Honea Path
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Long, D. L. (1 CE) .... Newberry
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Long, H. L. (1 ME) .... Rock Hill
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Lyles, R. T. (1 Arch) .... Columbia
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McClain, J. B. (1 IM) . . . . Anderson
McClain, R. A. (1 ChE)* . . . . . . Anderson
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Martin, O. M. (4 ME)	Mullins
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O'Donnell, M. T. (2 Pre-Med)— Charlotte, N. C.
Oduber, S. Q. (2 Arch) . . Dutch West Indies

Name and Course	*Address*
Ogburn, F. M. (2 ChE)	Columbia
Ogilvie, L. M. (G Phys)—	Vancouver, Canada
Oglesby, F. W. (2 EE)	Roebuck
Oglesby, J. R. (1 ChE)°	Cowpens
Ogletree, B. D. (1 EE)	Jonesville
O'Kelley, D. L. (1 IM)°	Seneca
O'Kelley, G. M. (3 A&S)—	White Plains, N. Y.
Olive, W. F. (2 A&S)	Manhasset, N. Y.
Oliver, F. J. (1 EE)°	Charleston
Olsen, C. C. (G Biol)°-°°	Greenwood
Olson, D. E. (4 CE)	Decatur, Ga.
Olson, J. S. (2 CE)	Decatur, Ga.
O'Neal, D. B. (3 TMt)	Mullins
O'Neal, R. M. (1 Pre-Med)	Anderson
O'Neal, S. K. (4 A&S)	Fairfax
O'Neill, P. W. (1 IM)°	West Columbia
O'Quinn, R. W. (4 CrE)	Spartanburg
O'Rear, C. R. (1 A&S)°	Denmark
O'Riley, Myles (3 A&S)	North
Orr, J. L. (Unc)	Pendleton
Orr, J. R. (4 ME)	Greenville
Osborne, H. E. (4 ME)	Fort Mill
Osborne, R. P. (4 TMt)	Cleveland, Ga.
O'Shields, G. H. (2 EE)	Clinton
Osteen, W. G. (4 ME)	Greenville
Oswald, Dunbar (3 AH)	Allendale
Oswald, E. G. (2 For)	Allendale
Ott, K. R. (2 IM)	Savannah, Ga.
Ousley, J. F. (1 IM)	Hartsville
Outen, S. L. (G Chem)°-°°	Columbia
Outwater, Fisk (2 CrE)	Charlotte, N. C.
Owen, J. W. (1 CE)	Norris
Owens, B. J. (4 AgE)	Hemingway
Owens, D. H. (2 ME)	Greenville
Owens, G. W. (1 Pre-Med)°	Columbia
Owens, J. A. (1 EE)	Sumter
Owens, J. H. (1 TS)°	Pendleton
Owens, J. T. (3 IM)	Easley
Owens, J. V. (2 CrE)	Easley
Owens, P. H. (4 AH)	Fletcher, N. C.
Owens, W. B. (1 EE)°	Clinton
Owings, A. P. (2 Pre-Med)	Pittsburgh, Pa.
Owings, A. L. (Unc)	Clemson
Owings, M. J. (2 A&S)	Valencia, Pa.
Owings, N. C. (4 A&S)	Union
Owings, W. S. (1 IM)°	Greenville
Oxner, J. E. (3 A&S)	Newberry
Pace, K. L. (5 Arch)	Sumter
Pack, W. T. (2 TS)	Inman
Padgett, C. H. (1 TMt)	Pendleton
Padgett, E. G. (2 Ed)	Branchville
Padgett, G. M. (1 CE)°	Greenwood
Padgett, L. G. (3 ME)	Buffalo
Padgett, M. G. (1 AH)	Williams
Padgett, R. N. (2 EE)	Smoaks
Page, B. J. (2 EE)	Spartanburg
Page, J. C. (2 ChE)	Nichols
Page, J. M. (4 AgE)	Oswego
Page, T. K. (2 IE)	Sumter
Palassis, C. N. (4 TMt)	Charleston
Palmer, F. C. (3 EE)	Rock Hill
Palmer, J. G. (4 Ed)	Anderson
Palmer, J. H. (2 Agron)	Anderson
Palombo, Robert (1 Arch)°	Belleville, N. J.
Papastathis, Dimitry (3 EE)	Athens, Greece
Parham, W. W. (G Chem)°—	Henderson, N. C.
Parish, G. A. (1 IM)	Yonges Island
Park, J. J. (1 IM)	Clemson
Parker, A. F. (1 CE)°	Jacksonville, Fla.
Parker, J. E. (1 E)°	North Charleston
Parker, J. M. (2 A&S)	Havertown, Pa.
Parker, L. V. (2 CE)	Wellford
Parker, S. E. (2 Pre-Med)	Florence
Parkins, R. A. (4 IM)	Greenville
Parkman, M. D. (1 ME)°	Augusta, Ga.
Parks, J. R. (1 EE)°	Parksville
Parks, K. M. (1 CE)°	Charleston Heights

Name and Course	*Address*
Parris, E. H. (1 Pre-Med)	Gaffney
Parris, R. M. (2 IM)	Campobello
Parris, S. D. (4 CrE)	Gaffney
Parrish, F. J. (5 Arch)	Dillon
Parrott, M. F. (2 A&S)	Spartanburg
Parsons, O. D. (2 EE)	Rock Hill
Parsons, S. A. (4 ME)	Georgetown
Parton, C. F. (2 ME)	Rutherfordton, N. C.
Parton, R. L. (2 ME)	Rutherfordton, N. C.
Partridge, B. J. (1 IM)°	Calhoun Falls
Paschal, F. V. (1 IM)°	Columbia
Pasqualini, C. V. (G Zool)—	Havre de Grace, Md.
Pass, B. C. (G Ent)	Cleveland, Ala.
Pate, C. E. (1 TMt)	Greenwood
Pate, D. H. (1 ME)°	Charleston
Pate, R. M. (3 IM)	Hartsville
Patel, M. H. (4 ME)	Kenya, Africa
Patrick, C. R. (2 Ent)	Brookfield, Ga.
Patrick, D. H. (1 IM)°	Charleston
Patrick, J. H. (1 CrE)°	Greenwood
Patrick, R. T. (1 IM)°	Charleston
Patten, F. C. (2 AgE)	Timmonsville
Patterson, B. S. (2 ME)	Burton
Patterson, D. D. (2 TMt)	Clemson
Patterson, D. O. (2 EE)	Augusta, Ga.
Patterson, Gary (3 IM)	Anderson
Patterson, I. M. (4 TS)	Columbia
Patterson, J. O. (1 IM)	Garnett
Patterson, L. R. (3 A&S)	Piedmont
Patterson, W. D. (1 EE)	Fort Mill
Patterson, W. J. (2 A&S)	Greenville
Patton, P. E. (4 InEd)	Charlotte, N. C.
Patton, W. W. (2 AgE)	Haines City, Fla.
Paul, R. L. (2 EE)°	Mottville, N. Y
Pavilack, Harold (4 A&S)	Pittsburgh Pa.
Paxton, J. H. (4 A&S)	Brevard, N. C.
Payne, F. G. (1 CE)	Mt. Pleasant
Payne, J. A. (G Ent)°	Knoxville, Tenn.
Payne, J. H. (3 IM)	Piedmont
Payne, L. J. (1 IM)°	Greenville
Pearce, B. K. (1 ME)°	Greenville
Pearce, F. W. (1 Arch)°	Cheraw
Pearce, J. B. (1 For)°	McColl
Pearce, J. P. (3 CrE)	Dillon
Pearman, F. E. (1 Arch)°	Anderson
Pearson, J. W. (1 IM)°	Laurens
Pearson, T. W. (3 CE)	Spartanburg
Pearson, W. F. (2 CrE)	Denmark
Peden, T. L. (1 A&S)°	Pelzer
Peek, Barry (1 Pre-Med)°	Six Mile
Peek, Richard E. (4 IM)	Charleston
Peek, Ronald E. (1 CE)°—	Charleston Heights
Peele, T. C. (2 Pre-Med)	Clemson
Peeler, G. E. (2 ME)	Charleston
Peeples, Nathaniel (3 Ed)	Charleston
Pennington, C. W. (1 Pre-Med)°	Starr
Pennington, H. D. (1 EE)	Blacksburg
Perkins, F. W. (2 A&S)	Elloree
Perna, A. J. (G ChE)°°	Brooklyn, N. Y.
Perritt, P. E. (2 CE)	Cheraw
Perry, C. E. (1 IM)°	Hartsville
Perry, D. A. (1 CE)°	Abbeville
Perry, S. S. (3 Arch)	Greenville
Perry, T. C. (3 ME)	Greenville
Peters, W. H. (G Math)°-°°	Anderson
Peterson, T. F. (1 CE)	Savannah, Ga.
Petoskey, F. L. (2 Arch)	Columbia
Petoskey, R. S. (1 CE)°	Columbia
Pettus, J. A. (1 EE)°	Fort Mill
Pfister, A. M. (1 FdT)°	Maspeth, N. Y.
Phelps, J. W. (2 ME)	Atlanta, Ga.
Philips, M. C. (1 IM)	Greensburg, Pa.
Phillips, A. C. (1 For)°	Hampton
Phillips, G. D. (2 EE)	Easley
Phillips, G. G. (1 IM)	Savannah, Ga.
Phillips, Jack B. (1 Arch)°	North Augusta
Phillips, James B. (4 IM)	Fort Mill
Phillips, J. E. (1 Arch)°	Greenville
Phillips, J. O. (3 EE)	Darlington

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Phillips, R. E. (4 TC)	Rock Hill
Phillips, R. H. (2 EE),	Charleston Heights
Phillips, R. P. (3 ME)	Greenville
Phillips, W. E. (3 Pre-Med),	Alpharetta, Ga.
Phillips, W. D. (1 TMt)	Anderson
Phinney, W. A. (4 Ed)—	Tarawa Terrace, N. C.
Phipps, D. P. (2 InEd)	Columbia
Piercy, B. E. (3 AgEd)—	Boiling Springs, N. C.
Pike, M. I. (2 Pre-Vet)	Spartanburg
Pinckney, W. R. (1 Chem)*	Walterboro
Pinson, R. L. (1 CE)*	Charleston
Pinson, W. P. (2 Pre-Med)	Greenwood
Pitner, J. W. (3 Pre-Med)	Florence
Pitts, L. M. (2 CE)	Rock Hill
Pitts, W. H. (4 AgE)	Newberry
Plant, A. N. (G Agron)	Clemson
Plant, R. D. (1 EE)*	Decatur, Ga.
Plaxco, W. B. (1 AgEd)*	York
Player, O. V. (1 Arch)*	Sumter
Plemmons, R. D. (1 ME)*	Greenville
Pless, W. H. (1 ME),	Havre de Grace, Md.
Plexico, B. D. (2 Phys)	Barnwell
Plumhoff, D. E. (1 ME)*	Baltimore, Md.
Plunkett, W. O. (1 CE)*	Savannah, Ga.
Plyler, G. M (1 IM)	Lancaster
Poe, S. E. (3 Arch)	Brunson
Polk, E. E. (3 Phys)	Varnville
Ponder, W. H. (3 ChE)	Anderson
Poole, C. E. (1 TMt)*	North Charleston
Poole, C. K. (1 CrE)*	Chester
Poole, E. D. (1 IM)	Greenville
Poole, H. B. (3 Chem)	Newberry
Poole, J. F. (3 EE)	Florence
Poole, L. A. (1 TMt)	North Charleston
Poole, R. E. (1 A&S)	Florence, Ala.
Poole, W. M. (3 IM)	West Columbia
Poore, R. W. (2 IE)	Greenville
Poore, W. M. (1 E)*	Seneca
Pope, D. O. (2 TMt)	Pageland
Porter, A. W. (1 Biol)	Rock Hill
Porter, C. E. (1 EE)*	Summerville
Porter, C. F. (1 Pre-Med)*	Pickens
Porter, R. A. (1 IM)	Williston
Porth, H. P. (1 IE)	Columbia
Poster, Gerbrand (1 Arch)*	Myrtle Beach
Poston, H. M. (1 TMt)*	Johnsonville
Poston, J. A. (3 Chem)	Pamplico
Poston, J. D. (1 Phys)*	Pamplico
Poston, R. M. (2 CE)	Pamplico
Poston, W. D. (1 ME)	Denmark
Poteat, D. W. (4 A&S),	Charleston Heights
Poteat, J. H. (1 AH)	Spartanburg
Poterala, R. J. (1 CE)*	Salisbury, N. C.
Potter, J. B. (1 IM)*	Moncks Corner
Potts, J. B. (2 For)	Rock Hill
Powell, H. D. (G Phys)	Wallace, N. C.
Powell, M. P. (PG Arch)	Mullins
Powell, N. S. (G Ed)*-**	Clemson
Powell, R. L. (3 Arch)	Tampa, Fla.
Powell, R S (G TC)	Clemson
Powell, S. T. (1 EE)*	Orlando, Fla.
Powers, A. K. (5 Arch)	Columbus, Ga.
Powers, T. E. (1 EE)	Marion
Praete, R. A. (1 Pre-Vet)*	Columbia
Prater, M. R. (1 TC)	Seneca
Prather, E. L. (2 CE)	Camden
Pregnall, R. A. (2 CrE)	Walterboro
Prescott, C. A. (1 E)*	Belvedere
Pressley, G. H. (4 IE)	Asheville, N. C.
Pressley, K. P. (1 Pre-Vet)	Lowrys
Preston, C. D. (3 CrE)	Columbia
Preston, D. W. (1 A&S)	Tryon, N. C.
Preston, L. P. (1 CE)*	Columbus, Ga.
Priester, L. E. (G Ent)**	Clemson
Prigger, P. B. (1 Phys)	Atlanta, Ga.
Prince, J. A. (1 CE)	Raleigh, N. C.
Privette, C. V. (3 AgE)	Bishopville
Privette, M. H. (1 IM)	Hartsville

Name and Course	*Address*
Proctor, Cortez (3 EE)	Aiken
Proctor, R. P. (1 ChE)*	Florence
Proffitt, G. M. (1 ME)*	Pickens
Prothro, J. E. (3 EE)	Charlottesville, Va.
Pruett, J. E. (2 TMt)	Drayton
Pruitt, D. D. (1 Hort)	Campobello
Pruitt, D. W. (2 ME)	Rock Hill
Pruitt, J. N. (4 TC)	Duncan
Pruitt, R. B. (1 EE)*	Anderson
Pruitt, T. W. (2 ChE)	Belton
Puckett, J. D. (3 A&S)	Seneca
Puckett, W. B. (1 CrE)*	Ravenel
Pulliam, N. F. (2 IM)	Augusta, Ga.
Purdy, J. G. (1 Phys)*	Atlanta, Ga.
Putnam, B. R. (4 ME)	Charleston
Putnam, H. W. (2 AgEd)	Shelby, N. C.
Pysar, E. J. (4 Hort)	Harvey, Ill.
Quarles, J. M. (3 IM)	Edgefield
Quarles, L. W. (1 TMt)	McCormick
Queen, J. B. (2 EE)	Gaffney
Queen, J. E. (2 IM)	Gaffney
Quinn, A. R. (1 IM)	Converse
Rabasa, G. A. (1 A&S)—	Mexico, D. F., Mexico
Rabon, L. D. (3 Pre-Med)	Aynor
Rackley, E. C. (1 EE)	Seneca
Ragin, J. J. (1 TMt)	Rock Hill
Ragin, W. S. (1 For)	Rock Hill
Ragsdale, J. K. (1 IM)*	Blair
Raines, C. R. (2 CrE)	Blackstock
Raines, J K. (1 IE)*	Charleston
Rainey, J. M. (1 Pre-Med)*	Walterboro
Rambo, A. M (1 IM)*	Mobile, Ala.
Ramey, H E. (2 ME)	Walhalla
Ramey, R. L. (2 Biol)	Inman
Ramey, W. R. (3 EE)	Westminster
Ramirez, Danilo (3 AH)—	Maracay, Venezuela
Ramsay, D. B. (4 ApMath)—	Washington, D. C.
Ramsay, T. A. (2 EE)	Simpsonville
Ramsey, B. H. (2 IM)	Pauline
Ramsey, S. L. (2 IM)	Greenville
Randall, L. S. (3 IM)	Johnston
Raneri, A. A. (4 A&S)	Averill Park, N. Y.
Rankin, G. L. (1 IM)	Cross Creek, Pa.
Rankin, L. L. (1 ME)*	Ridge Spring
Rantanen, J. J. (1 IM)	Ardmore, Pa.
Rasheed, Issam (4 ME),	Beit Mery, Lebanon
Rasmussen, R. W. (2 EE)	Annandale, Va.
Rast, H. E. (3 EE)	Orangeburg
Ratterree, P. C. (3 CE)	Rock Hill
Rawcliffe, T. H. (1 CE)*	Wheaton, Md.
Rawlings, G. L. (2 TMt)	Gastonia, N. C.
Ray, T. B. (1 A&S)*	Columbia
Rayon, R. L. (3 TMt)	Flushing, N. Y.
Raz, J. E. (2 EE)	Shaw AFB
Redmond, K. C. (1 Phys)	Central
Redmond, M. K. (1 A&S)*	Central
Reed, C. H. (1 Arch)*	Charlotte, N. C.
Reed, T. C. (1 For)*	Sumter
Reese, B. P. (2 CrE)	Union
Reese, F. L. (1 ME)*	Clinton
Reeves, J. F. (1 Arch)	Florence
Reeves, L. D. (2 ChE)	Anderson
Reeves, R. G. (1 E)*	Charleston
Reeves, T. B. (1 E)*	Greenville
Reid, H. W. (G InEd)**	Piedmont
Reid, R. B. (1 IM)*	Richburg
Reilly, J. E. (1 ChE)*	Charleston
Reinartz, F. E. (1 A)*	Columbia
Reinhardt, J. E. (2 Pre-Med)	Edgemoor
Rentz, H. H. (4 CE)	Varnville
Renwick, H. M. (3 IM)	Winnsboro
Reuben, B. J (G TC)*	Bombay, India
Reynolds, D. O. (2 IE)	Columbia
Reynolds, J B. (1 Pre-Med)*	Anderson
Reynolds, N. W. (1 TMt)*	Gaffney
Reynolds, R. W. (4 TMt)	Greenville

Name and Course — *Address*

Reynolds, W. T. (2 Pre-Med)—Charleston Heights
Rhinehardt, J. B. (2 TMt) .... Winnsboro
Rhoad, D. B. (2 AgEd) .... Branchville
Rhodes, K. E. (3 EE) .... Florence
Rhodes, V. W. (1 A&S) ...... Anderson
Rians, C. W. (4 Ed) ... Charleston Heights
Rice, E. K. (2 IM) .... Bamberg
Rice, R. E. (1 Phys) .... Anderson
Rice, R. J. (1 ChE)* .... Charlotte, N. C.
Rice, R. R. (3 TMt) .... Anderson
Rice, T. M. (3 ME) .... Bowman, Ga.
Rice, Walter H. (4 InEd) ...... Greenville
Rice, William H. (PG CE) ...... Anderson
Rich, R. R. (1 CE)* .... Greenville
Richards, A. G. (2 Pre-Med) ... N. Augusta
Richards, J. A. (2 IM) .. College Park, Md.
Richards, W. A. (1 Arch)* ... Scranton, Pa.
Richards, W. E. (2 ME) .... Savannah, Ga.
Richardson, B. L. (G TC) ...... Newberry
Richardson, D. D. (2 IM) ...... Lexington
Richardson, F. L. (3 IM) .... Lancaster
Richardson, H. W. (3 EE) .... Seneca
Richardson, J. G. (4 ChE) ...... Greenville
Richardson, J. T. (1 ME)* ...... Anderson
Richardson, R. E. (1 EE)* .... Mullins
Rickenbacker, J. E. (2 EE) ...... Cameron
Ricker, C. E. (1 Pre-Med)* ..... Anderson
Riddle, A. B. (1 CE)* ...... Jefferson, Ga.
Riddle, O. L. (2 Arch) .... Seneca
Ridings, D. F. (1 AH) ... Kingsport, Tenn.
Ridlehoover, J. M. (1 IM)* .... Bradley
Ridley, J. C. (4 For) .... Mt. Rest
Ridley, J. D. (1 Hort)* .... Mt. Rest
Rifkin, S. M. (2 Arch) ... Laurelton, N. Y.
Riggs, C. O. (1 Arch)* .... Savannah, Ga.
Rij, R. E. (G AgEc) .... Bronx, N. Y.
Riley, W. M. (1 A&S) .... Seneca
Rimmer, W. D. (1 ChE)* .... Sumter
Ringold, M. S. (2 A&S) .... Clemson
Rippy, D. V. (2 TMt) .... Landrum
Riser, G. M. (1 For)* .... Saluda
Riser, W. H. (4 IE) .... Whitmire
Rish, N. W. (3 Agron) .... Lexington
Rishel, E. B. (3 A&S) .... Greenville
Risher, T. H. (2 ChE) .... Clemson
Roache, C. E. (4 AgEd) .... Pelzer
Roark, W. B. (4 IM) .... Blacksburg
Robbins, H. O. (1 AgE)*, Covington, Tenn.
Robbins, M. L. (2 Hort) .... Inman
Roberson, J. H. (3 ME) .... Greenville
Roberts, C. L. (3 IE) .... Lancaster
Roberts, J. B. (1 A)* .. White Springs, Fla.
Roberts, J. T. (3 ME) .... Rock Hill
Roberts, W. D. (2 Arch) . Mars Hill, N. C.
Robertson, A. E. (1 For)* ...... Charleston
Robertson, C. D. (1 ME)* ...... Lancaster
Robertson, F. L. (1 A&S) ... Heath Springs
Robertson, J. B. (G Phys) ...... Charleston
Robertson, J. D. (1 Pre-Med)*, Greenwood
Robertson, R. E. (1 AgEd) .... Laurens
Robertson, T. M. (2 CE) ..... Spartanburg
Robertson, W. E. (3 EE) .... Anderson
Robinette, F. M. (2 Arch) .... Pacolet
Robinson, A. B. (G Ed) .... Anderson
Robinson, E. C. (2 A&S) .... Greenville
Robinson, G. L. (2 A&S) .... Clemson
Robinson, H. H. (4 IE) .... Chester
Robinson, J. T. (2 TMt) .... Easley
Robinson, M. A. (1 ME)* .... North
Robinson, R. L. (3 CE) ... Asheville, N. C.
Robinson, R. N. (1 IM) .... Belleville, N. J.
Robinson, T. L. (1 Ed) .... McDonald, Pa.
Robinson, W. R. (1 A&S)* ..... Columbia
Rochester, E. W. (1 AgE) ...... Greenville
Rochester, F. D. (2 ApMath) ...... Salem
Rock, O. H. (3 IM) .... Rock Hill
Roddy, R. L. (1 A&S) .... Greenville
Rodgers, B. C. (2 ME) .... Sumter
Rodgers, C. C. (1 ChE)*, North Charleston
Rodgers, E. L. (1 IM) .... Greenville
Rodgers, W. S. (4 EE) .... Columbia
Roe, R. B. (3 EE) .... Travelers Rest
Rogers, C. L. (1 IE) .... Williamston
Rogers, E. P. (2 AgEd) .... Dillon
Rogers, F. B. (1 Pre-Med) .... Pelzer
Rogers, G. W. (1 CE)* ... Clearwater, Fla.
Rogers, James L. (4 Dairy) .... Mullins
Rogers, Jerry L. (1 IM)* .... Warren, Ohio
Rogers, J. Martin (2 Dairy) ..... Piedmont
Rogers, J. Maurice (4 For) .... Mullins
Rogers, Le Mont (3 Dairy) .... Hemingway
Rogers, L. P. (2 For) .... Andrews
Rogers, R. C. (1 CE) .... Inman
Rogers, R. P. (3 A&S) .... Mullins
Rogers, R. T. (1 ApMath)* .. N. Charleston
Rogers, T. S. (1 AgE)*, Charleston Heights
Rogers, W. B. (1 A&S)* ...... Walterboro
Rogers, W. F. (4 IM) .... Cayce
Rogers, W. W. (1 IE) .... Williamston
Roller, J. A. (4 IM) .... Camden
Rollison, J. A. (2 ChE) .... Greenwood
Roper, R. D. (1 EE) .... Pickens
Roper, T. D. (1 ApMath)* ..... Columbia
Roquemore, J. P. (1 E)* .... Pamplico
Rosamond, H. D. (2 CE) ...... Greenville
Rose, G. S. (4 TC) .... Camden
Rosen, A. H. (1 Chem)* .... Charleston
Roskovich, F. R. (2 A&S), Fayette City, Pa.
Ross, G. A. (5 Arch) .... Kingstree
Ross, L. J. (1 ApMath)* .... Clemson
Ross, T. A. (1 Dairy)* .... Rembert
Roth, T. L. (4 IM) .... Charleston
Rourk, J. C. (1 Agron) .... Charleston
Rourke, J. E. (4 IM) .... North Charleston
Rourke, L. W. (3 Ent) .. North Charleston
Rowe, J. W. (1 Pre-Med) ...... Newberry
Rowe. K. J. (1 A&S)* .... Manning
Rowe, T. M. (1 Pre-Med)* .... Walterboro
Rowland, H. C. (2 A&S) .... Greenville
Rowland, P. W. (3 EE) .. Mocksville, N. C.
Roxburgh, J. M. (1 For)*, Stamford, Conn.
Rozier, J. H. (2 Hort) .... Moncks Corner
Ruby, P. M. (1 For)* .... Orlando, Fla.
Ruckdashel, J. M. (3 CrE) .... Aiken
Rucker, D. M. (2 ME) .... North Augusta
Rudisill, H. E. (1 Arch)* . Belmont, N. C.
Rudloff, J. H. (1 IM)* .... Charleston
Ruehling, G. F. (3 ChE) .. Savannah, Ga.
Ruff, W. J. (1 AH) ..... Flat Rock, N. C.
Runnion, C. E. (3 ApMath) .... Greenville
Runton, J. H. (1 Arch)* . Jacksonville, Fla.
Rush, L. B. (1 For)* .... Camden
Rushton, F. R. (3 EE) .... Greenwood
Rushton, J. D. (3 ChE) ...... Greenwood
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Wise, J. W. (3 Ed)	Pamplico
Witaszek, C. G. (2 ApMath)	Charlotte, N. C.
Witherspoon, J. H. (1 CrE)*	Barnwell
Witherspoon, W. C. (1 AgE)	Camden
Witsell, J. A. (1 ME)	North Charleston
Witt, J. L. (2 TMt)	Saluda
Wofford, B. P. (1 TC)*	Gastonia, N. C.
Wolcken, F. W. (5 Arch)	Havertown, Pa.
Wolfe, J. F. (1 CE)*	Chesnee
Wolfe, R. S. (2 EE)	Orangeburg
Womack, J. M. (2 TMt)	Camden
Wood, A. M. (1 IM)*	Aiken
Wood, B. K. (2 EE)	Anderson
Wood, F. W. (1 Arch)*	Charlotte, N. C.
Wood, G. L. (2 EE)	Gaffney
Wood, J. C. (G Phys)	Spartanburg
Wood, J. G. (4 A&S)	Florence
Wood, J. H. (2 AgEc)	Anderson
Wood, J. T. (2 Phys)	Tigerville
Woodham, J. T. (1 ChE)*	Bishopville
Woodhead, H. A. (2 ME)	Aiken
Woods, J. E. (2 CE)	Fountain Inn
Woods, S. B. (2 IM)	Marion
Woodward, R. S. (2 A&S)	Spartanburg
Woodward, W. L. (1 IM)	Fairforest
Wooten, T. E. (2 ChE)	Graniteville
Wooten, T. J. (1 CE)	Boykin
Workman, J. P. (4 For)	Woodruff
Workman, L. K. (1 E)*	Honea Path
Wrenn, J. D. (1 ChE)*	Greenwood
Wrenn, J. E. (4 IM)	Fountain Inn
Wrenn, J. P. (2 IM)	Chester
Wrenn, R. G. (3 AgEd)	Clinton
Wright, D. I. (4 IM)	Camden
Wright, H. L. (3 TMt)	Greenville
Wright, J. S. (1 Pre-Med)*	Gastonia, N. C.
Wright, L. E. (2 IM)	North Charleston
Wright, L. L. (3 CE)	Gastonia, N. C.
Wright, R. A. (1 EE)*	Highstown, N. J.
Wright, T. C. (1 EE)*	Ward
Wyatt, A. B. (1 Pre-Med)*	Liberty
Wyatt, J. A. (2 A&S)	Easley
Wyman, J. W. (1 Pre-Med)*	Clemson
Wynn, J. T. (1 CE)	Bennettsville
Wysong, C. F. (3 CrE)	Atlanta, Ga.
Yarborough, B. J. (2 IM)	Gastonia, N. C.
Yarborough, J. H. (1 InEd)	Chattanooga, Tenn.
Yates, H. W. (2 TMt)	Liberty
Yates, R. V. (4 Phys)	Sumter
Yon, W. S. (2 ME)	Loris
Yongue, W. R. (1 A&S)	Chester
York, J. M. (3 Chem)	Allendale
Young, C. E. (1 TMt)*	Darlington
Young, E. A. (1 ChE)*	Charleston
Young, E. L. (2 IM)	Charlotte, N. C.
Young, H. F. (1 CE)*	Beaufort
Young, H. G. (1 Pre-Vet)	Orangeburg
Young, M. L. (3 Arch)	Hemingway
Young, P. E. (1 EE)*	Thomson, Ga.
Young, R. W. (2 Arch)	Smyrna, Ga.
Young, W. L. (3 CE)	Yonges Island
Youngblood, J. E. (G Phys)	Columbia
Youngblood, J. R. (2 IE)	Easley
Zeigler, B. S. (2 CE)	Denmark
Zimmerman, R. D. (1 IM)	Florence
Zinn, H. M. (1 Arch)*	Merrick, N. Y.
Zoretich, F. N. (4 Hort)	Monessen, Pa.

ENROLLMENT BY COUNTIES AND STATES
FIRST SEMESTER, 1961-1962

County	*Total*
Abbeville	38
Aiken	114
Allendale	20
Anderson	240
Bamberg	26
Barnwell	28
Beaufort	27
Berkeley	15
Calhoun	17
Charleston	260
Cherokee	44
Chester	47
Chesterfield	43
Clarendon	25
Colleton	37
Darlington	73
Dillon	33
Dorchester	31
Edgefield	17
Fairfield	17
Florence	81
Georgetown	23
Greenville	356
Greenwood	91
Hampton	23
Horry	54
Jasper	5
Kershaw	46
Lancaster	52
Laurens	67
Lee	24
Lexington	56
Marion	35
Marlboro	16
McCormick	12
Newberry	49
Oconee	126
Orangeburg	92
Pickens	207
Richland	132
Saluda	29
Spartanburg	214
Sumter	74
Union	45
Williamsburg	33
York	118
SOUTH CAROLINA TOTAL	3,212

State or Country	*Total*
Alabama	17
Alaska	1
Brazil	1
British E. Africa	1
British West Indies	1
California	5
Canada	2
Canal Zone	1
Colombia	1
Connecticut	11
Cuba	2
Delaware	3
District of Columbia	8
Ecuador	1
El Salvador	1
Florida	72
Georgia	165
Greece	2
Guatemala	1
Hong Kong	1
Illinois	11
India	1
Indiana	4
Iowa	1
Iran	1
Kentucky	8
Lebanon	3
Maine	1
Maryland	31
Massachusetts	10
Mexico	1
Mississippi	1
Missouri	1
New Hampshire	1
New Jersey	55
New York	55
North Carolina	229
Ohio	15
Oklahoma	2
Pakistan	1
Panama	1
Pennsylvania	77
Puerto Rico	3
Rhode Island	2
South Carolina	3,212
Tennessee	20
Texas	9
Venezuela	4
Virginia	37
West Virginia	7
Wisconsin	2
GRAND TOTAL	4,104

NUMBER OF STUDENTS MAJORING IN EACH CURRICULUM, FIRST SEMESTER, 1961-1962

Classification	Agriculture	Agric. Economics	Agric. Education	Agronomy	Animal Husbandry	Biology	Dairy	Entomology	Food Technology	Forestry	Horticulture	Poultry	Pre-Veterinary	Architecture	Applied Math.	Arts and Sciences	Chemistry	Education	Industrial Mgt.	Physics	Pre-Medicine	Agric. Engr.	Ceramic Engr.	Chemical Engr.	Civil Engr.	Electrical Engr.	Industrial Ed.	Industrial Engr.	Mech. Engr.	Textile Chemistry	Textile Mgt.	Textile Science	Postgraduate	Graduate	Unclassified	Enroll. by Classes
Senior		12	15	5	11	5	7	1	..	26	12	..	..	23	7	49	12	18	69	6	3	14	19	16	39	36	7	11	56	7	43	9	..	...	..	538
Junior		12	20	4	12	5	3	2	..	28	6	1	..	22	11	39	10	17	97	12	13	8	22	24	38	74	3	18	61	8	33	4	..	...	..	607
Sophomore	..	4	21	9	13	9	6	3	..	25	14	3	15	52	11	91	19	11	137	17	46	13	26	53	60	150	4	17	92	8	57	7	..	...	..	993
Freshman	10	12	34	14	21	10	23	4	1	70	16	5	24	136	18	140	25	8	242	18	78	32	43	88	136	231	6	27	174	22	97	8	..	...	..	1,773
Postgraduate	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	...	..	12
Graduate	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	159	..	159
Unclassified	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22	22
Total	10	40	90	32	57	29	39	10	1	149	48	9	39	233	47	319	66	54	545	53	140	67	110	181	273	491	20	73	383	45	230	28	12	159	22	4,104

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