

THE
CLEMSON
AGRICULTURAL
COLLEGE

RECORD
SIXTY-THIRD YEAR

CATALOG NUMBER
1955-1956

Preliminary Announcements 1956-1957

TABLE OF CONTENTS

COLLEGE CALENDAR 1955-1956	4
COLLEGE CALENDAR 1956-1957	5
PART I—PERSONNEL	7
Board of Trustees, Board of Visitors	8
Executive and Administrative Officers and Staff	9
Academic Faculty	11
Instructional Assistants, Library Staff	26
Standing Committees of the Faculty	27
Administration of Student Affairs	28
Administration of Business and Financial Affairs	29
Administration of Development Activities	30
PART II—INFORMATION	31
Administrative Organization	32
Requirements for Admission	33
Educational Benefits for Veterans	35
Selective Service Regulations	36
Expenses	37
Student Aid and Placement	40
Loan Funds, Grants and Financial Assistance	40
Honors and Awards	46
Buildings and Grounds	54
Living Conditions	56
Reserve Officers' Training Corps	57
Student Health Service	63
Religious Life	64
Historical Statement	64
Location	66
The Office of Public and Alumni Relations	66
PART III—STUDENT LIFE AND ACTIVITIES	69
Clubs and Societies	70
College Bands	72
Concert Series	72
Counseling System	73
The Student Center	73
The Young Men's Christian Association	73
Athletics	75
PART IV—SCHOLASTIC REGULATIONS	77
PART V—DEGREES AND CURRICULUMS	85
Curriculums	87
Description of Courses	127
PART VI—PUBLIC SERVICE ACTIVITIES	211
Personnel	212
Activities	226
PART VII—STUDENT REGISTER	233
INDEX	278

COLLEGE CALENDAR

SUMMER TERM 1955

Matriculation, new students	June 13
Matriculation and Registration	June 14
Classes begin	June 15
Independence Day holiday	July 4
Examinations	August 10, 11
Graduating Exercises	August 13

SESSION 1955-1956

Matriculation, new students	September 7
Registration, new students	September 12
Matriculation and Registration, former students ..	September 12, 13
Classes begin	September 14
Last day to add a subject	September 27
Last day to drop a subject without penalty	October 11
State Fair holidays begin at 12 noon	October 19
State Fair holidays end at 10 p. m.	October 23
Thanksgiving holidays begin at 1 p. m.	November 23
Thanksgiving holidays end at 10 p. m.	November 27
Christmas holidays begin at 12 noon	December 21
Christmas holidays end at 10 p. m.	January 3
End of First Semester	January 28
Mid-Year Graduating Exercises	January 29
Matriculation, new students	January 30
Registration, new students	February 1
Matriculation and Registration, former students	February 2
Classes begin	February 3
Last day to add a subject	February 16
Last day to drop a subject without penalty	March 1
Easter holidays begin at 12 noon	March 29
Easter holidays end at 10 p. m.	April 2
Commencement	June 3

FORT HILL, THE HISTORIC HOME OF JOHN C. CALHOUN AND THOMAS G. CLEMSON NOW STANDS IN THE CENTER OF THE EPISCOPAL CAMPUS

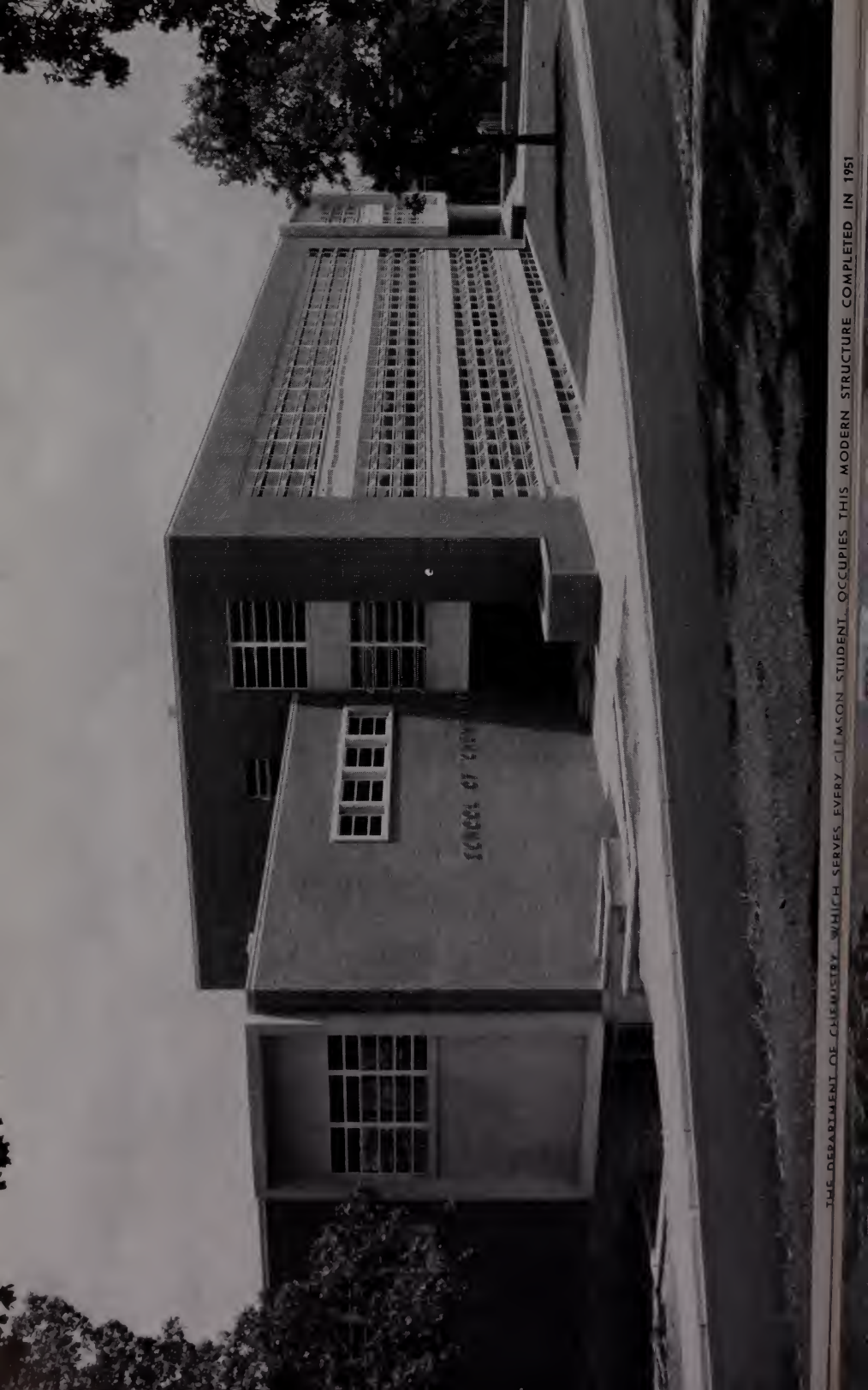




OLIN HALL AND ITS EXCELLENT EQUIPMENT WERE GIVEN TO CLEMSON BY THE OLIN FOUNDATION TO AID IN THE STUDY OF CERAMIC ENGINEERING

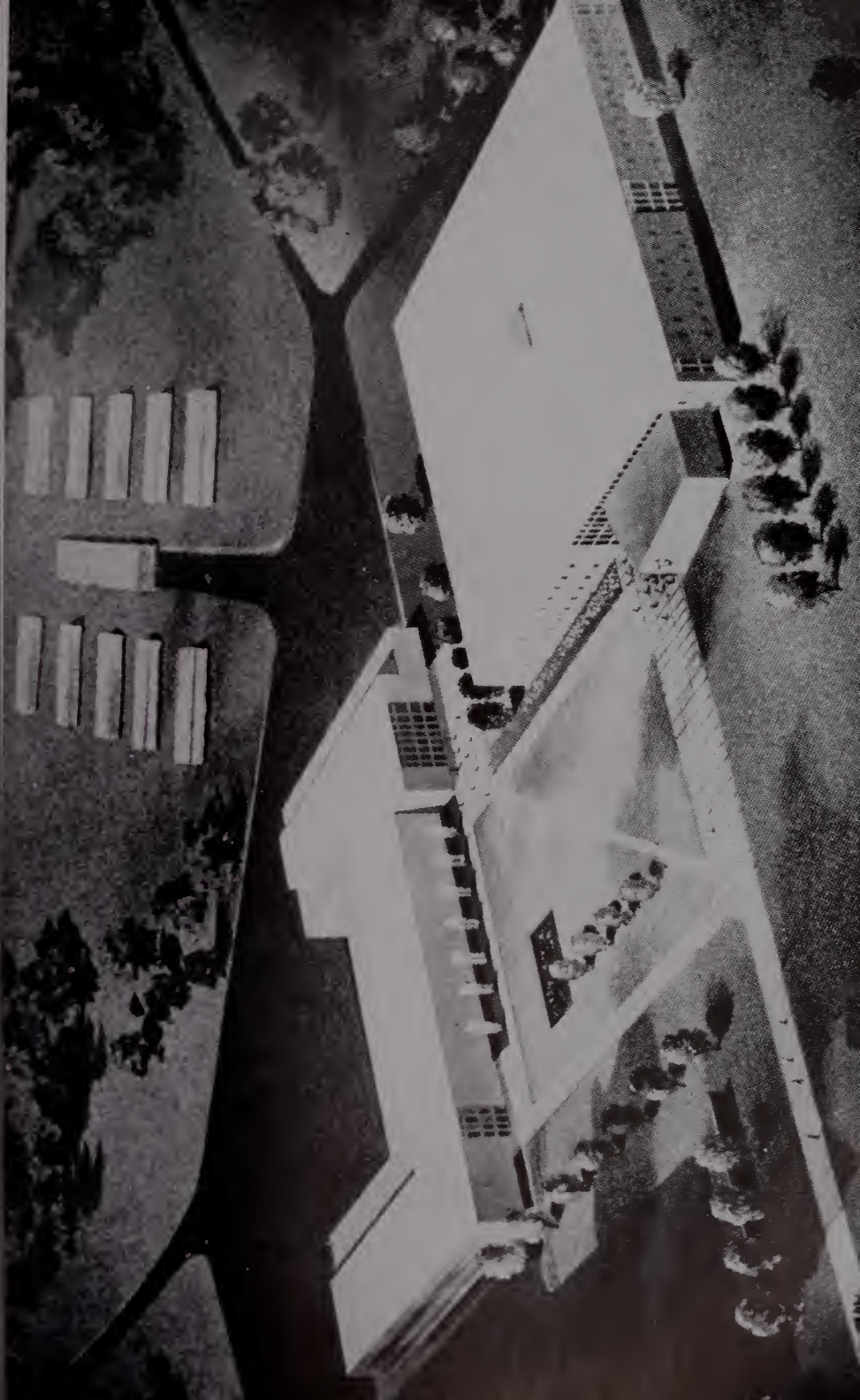
ONE OF THE LARGEST TEXTILE SCHOOLS IN THE WORLD IS HOUSED IN SIBBINE HALL WHICH CONTAINS TWO AND A HALF SQUARE FEET OF FLOOR SPACE





THE DEPARTMENT OF CHEMISTRY, WHICH SERVES EVERY CLEMSON STUDENT, OCCUPIES THIS MODERN STRUCTURE COMPLETED IN 1951

THE NEW \$3 520 000 00 AGRICULTURAL CENTER COMPLETED IN 1968 FOR THE ADVANCEMENT OF AGRICULTURE IN THE HAWAIIAN ISLANDS





LIVING QUARTERS FOR CLEMSON STUDENTS ARE IN THE NEW \$5,000,000.00 DORMITORY GROUP AND STUDENT ACTIVITIES CENTER



THE LOGGIA AND LOUNGE ARE PARTS OF THE ACTIVITIES CENTER





CLEMSON'S COLONEL HOMEcoming ACTIVITIES TAKE PLACE IN MEMORIAL STADIUM, HOME FIELD OF THE CLEMSON FOOTBALL TEAMS

SUMMER TERM 1956

Matriculation, new students	Mon., June 11
Matriculation and Registration	Tues., June 12
Classes begin	Wed., June 13
Independence Day holiday	Wed., July 4
Examinations	Wed.-Thurs., August 8, 9
Graduating Exercises	Sat., August 11

SESSION 1956-1957

Matriculation, new students	Wed., September 5
Registration, new students	Mon., September 10
Matriculation and Registration, former students—	
	Mon.-Tues., September 10, 11
Classes begin	Wed., September 12
Last day to add a subject	Tues., September 25
Last day to drop a subject without penalty ...	Tues., October 9
Report Teaching Load as of October 10	Thurs., October 11
State Fair Holidays begin at 12 noon	Wed., October 24
Classes Resumed	Mon., October 29
Mid-Semester Reports due	Thurs., November 8
Thanksgiving Holidays begin at 12 noon ...	Wed., November 21
Classes Resumed	Mon., November 26
Christmas Holidays begin at 12 noon	Wed., December 19
Classes Resumed	Thurs., January 3
End of First Semester	Sat., January 26
Matriculation, new students	Mon., January 28
Registration, new students	Wed., January 30
Matriculation and Registration, former students—	
	Thurs., January 31
Classes begin	Fri., February 1
Last day to add a subject	Thurs., February 14
Last day to drop a subject without penalty ...	Thurs., February 28
Report Teaching Load as of March 1	Sat., March 2
Mid-Semester Report due	Wed., March 27
Easter Holidays begin at 12 noon	Thurs., April 18
Classes Resumed	Tues., April 23
Commencement	Sun., June 2

1956

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

FEBRUARY						
S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	.	.	.

MARCH						
S	M	T	W	T	F	S
4	5	6	7	1	2	3
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

APRIL						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	.	.	.	.	.

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

JUNE						
S	M	T	W	T	F	S
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

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

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

SEPTEMBER							
S	M	T	W	T	F	S	
2	3	4	5	6	7	8	1
9	10	11	12	13	14	15	
16	17	18	19	20	21	22	
23	24	25	26	27	28	29	

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

NOVEMBER						
S	M	T	W	T	F	S
4	5	6	7	1	2	3
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	.

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

1957

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

FEBRUARY							
S	M	T	W	T	F	S	
..	..	..	..	..	1	2	
3	4	5	6	7	8	9	
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	..	..

MARCH						
S	M	T	W	T	F	S
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

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

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

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

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

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

SEPTEMBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	.	.	.	.	.

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

NOVEMBER							
S	M	T	W	T	F	S	
3	4	5	6	7	8	1	2
10	11	12	13	14	15	16	
17	18	19	20	21	22	23	
24	25	26	27	28	29	30	

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

THE
CLEMSON
AGRICULTURAL
COLLEGE
RECORD

PART I

Personnel

PART I—Personnel

BOARD OF TRUSTEES

LIFE MEMBERS

R. M. COOPER, <i>Chairman</i>	Wisacky, Lee County
PAUL SANDERS.....	Ritter, Colleton County
T. B. YOUNG.....	Florence, Florence County
J. F. BYRNES.....	Spartanburg, Spartanburg County
EDGAR A. BROWN.....	Barnwell, Barnwell County
CHARLES E. DANIEL.....	Greenville, Greenville County
WINCHESTER SMITH.....	Williston, Barnwell County

TERM EXPIRES 1958

BEN T. LEPPARD.....	Greenville, Greenville County
J. F. McLAURIN.....	Bennettsville, Marlboro County
W. A. BARNETTE.....	Greenwood, Greenwood County

TERM EXPIRES 1960

T. W. THORNHILL.....	Charleston, Charleston County
ROBERT S. CAMPBELL.....	Gaffney, Cherokee County
ROBERT L. STODDARD.....	Spartanburg, Spartanburg County

G. E. METZ, <i>Secretary</i>	Clemson
------------------------------------	---------

BOARD OF VISITORS

1955

E. H. Agnew.....	Starr
(Hold-over Member)	
L. F. Brabham.....	Bamberg
Harold Jackson.....	Cheraw
W. W. McEachern.....	Greenville
W. J. McLeod.....	Walterboro
W. E. Myrick.....	Ulmers
H. W. Sandlin.....	Anderson
Clifford Smith.....	Kinards
F. W. Toole, Jr.....	Aiken
Mrs. J. I. Waring.....	Charleston
Ralph Wilson.....	Laurens

EXECUTIVE OFFICERS

ROBERT FRANKLIN POOLE, Ph.D., D.Sc., LL.D., Litt.D.....	<i>President</i>
FRANCIS MARION KINARD, A.M., Litt.D.....	<i>Dean of the College</i>
WALTER THOMPSON COX, B.S.....	<i>Dean of Student Affairs</i>
MELFORD A. WILSON, B.S. in Commerce.....	<i>Comptroller</i>

ADMINISTRATIVE OFFICERS AND STAFF

PRESIDENT'S OFFICE

ROBERT FRANKLIN POOLE, Ph.D., D.Sc., LL.D., Litt.D.....	<i>President</i>
GUSTAVE ERNEST METZ, M.A.....	<i>Assistant to the President</i>
VIRGINIA EARLE SHANKLIN, A.B.....	<i>Secretary to the President</i>

ACADEMIC ADMINISTRATION

FRANCIS MARION KINARD, A.M., Litt.D.....	<i>Dean of the College and Dean of the Graduate School</i>
--	--

SCHOOL OF AGRICULTURE *

MILTON DYER FARRAR, Ph.D.....	<i>Dean, School of Agriculture</i>
JESS WILLARD JONES, Ph.D.....	<i>Director of Agricultural Teaching</i>
GEORGE HUBERT AULL, Ph.D.....	<i>Head, Department of Agricultural Economics and Rural Sociology</i>
ABSALOM WEST SNELL, M.S.,	<i>Head, Department of Agricultural Engineering**</i>
GILBEART HOOPER COLLINGS, Ph.D.....	<i>Head, Department of Agronomy.</i>
LAWRENCE VINCENT STARKEY, M.S.....	<i>Head, Department of Animal Husbandry</i>
GEORGE MILLER ARMSTRONG, Ph.D.....	<i>Head, Department of Botany and Bacteriology</i>
JOSEPH PAUL LAMASTER, M.S.....	<i>Head, Department of Dairying</i>
JAMES HARVEY COCHRAN, Ph.D.....	<i>Head, Department of Entomology and Zoology</i>
ALBERT MYERS MUSSER, B.S.....	<i>Head, Department of Horticulture</i>
CHARLES LEE MORGAN, M.S.....	<i>Head, Department of Poultry</i>
JAMES BEASLEY MONROE, M.S.....	<i>Head, Department of Vocational Agricultural Education</i>

SCHOOL OF ARTS AND SCIENCES

HOWARD LOUIS HUNTER, Ph.D.....	<i>Dean, School of Arts and Sciences</i>
DAVID WISTAR DANIEL, A.M., Litt.D.....	<i>Dean Emeritus, School of Arts and Sciences</i>
FRED HARVEY HALL CALHOUN, Ph.D.....	<i>Dean Emeritus, School of Chemistry and Geology</i>
FRANK BONNELL SCHIRMER, JR., Ph.D.—	<i>Head, Department of Chemistry and Geology</i>
HEADLEY MORRIS COX, M.A.....	<i>Acting Head, Department of English</i>
WALLACE DABNEY TREVILLIAN, Ph.D.—	<i>Head, Department of Industrial Management</i>
DAWSON CLEMENT SHELDON, Ph.D.....	<i>Head, Department of Mathematics</i>

* See also School of Agriculture Staff, including Public Service Activities, on page 211.

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

ORESTES PEARL RHYNE, Ph.D. *Head, Department of Modern Languages*
LORENZ DITMAR HUFF, Ph.D. *Head, Department of Physics*
SYDNEY JAMES LEONHARDT CROUCH, Th.D. . . . *Head, Department of Religion*
CARL LAFAYETTE EPTING, M.A. . . *Acting Head, Department of Social Sciences*

SCHOOL OF ENGINEERING

JAMES HAGOOD SAMS, JR., Ph.D. *Dean, School of Engineering*
SAMUEL BROADUS EARLE, A.M., M.E., LL.D. *Dean Emeritus,*
School of Engineering
HOWARD EMMITT GLENN, B.S. in C.E., C.E.—
Vice-Director, Engineering Experiment Station
ABSALOM WEST SNELL, M.S. , *Head, Department of Agricultural Engineering**
HARLAN EWART MCCLURE, M.A. *Head, Department of Architecture*
GILBERT CHASE ROBINSON, B.Cer.E.—
Head, Department of Ceramic Engineering
CHARLES EDWARD LITTLEJOHN, Ph.D.—
Acting Head, Department of Chemical Engineering
WALTER LEE LOWRY, JR., M.C.E. . . . *Head, Department of Civil Engineering*
JOSEPH EDWARD SHIGLEY, M.S. . . . *Head, Department of Drawing and Designing*
JAMES NORTON THURSTON, Sc.D.—
Head, Department of Electrical Engineering
JOHN LOGAN MARSHALL, B.S. *Head, Department of Industrial Arts*
EDWIN JONES FREEMAN, M.S. . . . *Head, Department of Industrial Engineering*
JAMES CLINTON COOK, JR., Ph.D.—
Head, Department of Mechanical Engineering
DONALD DEXTER CURTIS, M.S.—
Head, Department of Mechanics and Hydraulics

SCHOOL OF TEXTILES

HUGH MONROE BROWN, Ph.D.....*Dean, School of Textiles and Head,
Department of Textile Management*
JOSEPH LINDSAY, JR., M.S., *Head, Department of Textile Chemistry and Dyeing*
ARTHUR ERNEST MCKENNA, M.S.—
Head, Department of Weaving and Designing
GASTON GAGE, M.Ed.....*Head, Department of Yarn Manufacturing*

Air Science and Military Science

LLOYD HARRISON TULL, B.S., Colonel, U. S. Air Force. *Professor of Air Science*
 GEORGE ARCHIBALD DOUGLASS, B.S., Colonel, U. S. Army—
Professor of Military Science and Tactics

DIRECTOR OF THE LIBRARY

JOHN WALLACE GORDON GOURLAY, B.A., B.L.S., A.M.L.S.—
Director of the Library

EDUCATIONAL COUNCIL

R. F. POOLE, *President*; F. M. KINARD, *Dean of the College*; H. M. BROWN,
W. T. COX, M. D. FARRAR, J. W. G. GOURLAY, H. L. HUNTER, J. W. JONES,
J. H. SAMS, M. A. WILSON, and G. E. METZ, *Secretary*

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

ACADEMIC FACULTY*

ROBERT FRANKLIN POOLE

President

Ph.D., Rutgers University; D.Sc., Clemson Agricultural College; LL.D., University of South Carolina; Litt.D., Furman University

FRANCIS MARION KINARD

Dean of the College, Dean of the Graduate School

Professor of English

A.B., Wofford College, 1923; A.M., University of North Carolina, 1929; Graduate Work, University of North Carolina, Summer, 1930; Litt.D., Wofford College, 1944

ABEL, ARTHUR HAROLD, *Instructor in English.*

A.B., 1947, M.A., 1949, State University of Iowa; Graduate Work, University of Pennsylvania, 1949-1951, 1952-1954.

ADAMS, GREY LITTELTON, *Assistant Professor of Air Science.*

Captain, United States Air Force; A.B., University of North Carolina, 1949; Academic Instructors' School, 1955.

ADAMS, LEONARD CALDWELL, *Associate Professor of Electrical Engineering.*

B.E.E., Clemson Agricultural College, 1943; M.S., Oklahoma A & M College, 1950; Graduate Work, University of Florida, 1951-1953, Summer, 1954.

ALLEN, MARION CARROLL, *Assistant Professor of Religion.*

A.B., Furman University, 1937; B.D., Yale Divinity School, 1940; Graduate Work, Hartford Theological Seminary, 1943-1944; Andover Newton Seminary, Summer, 1945.

ANDERSON, GRANT WILLIAM, *Associate Professor of Zoology and Veterinary Medicine.*

B.S., D.V.M., Iowa State College, 1932; M.S., Virginia Polytechnic Institute, 1934.

ARMSTRONG, GEORGE MILLER, *Head of Botany and Bacteriology Department; Professor of Botany and Bacteriology.*

B.S., Clemson Agricultural College, 1914; M.A., University of Wisconsin, 1917; Ph.D., Washington University, 1921.

ARMSTRONG, PERCY LAMAR, *Assistant Professor of Mathematics.*

A.B., 1919, M.A., 1920, Southwestern University.

ARNDT, CHARLES HOMER, *Associate Professor of Botany.*

A.B., Lebanon Valley College, 1914; M.S., Purdue University, 1916; Ph.D., University of Pennsylvania, 1921.

AULL, GEORGE HUBERT, *Head of Agricultural Economics and Rural Sociology Department; Professor of Agricultural Economics.*

B.S., Clemson Agricultural College, 1919; M.S., University of Virginia, 1928; Ph.D., University of Wisconsin, 1937.

BAIR, GEORGE ELDRIDGE, *Associate Professor of English.*

B.A., Haverford College, 1947; M.A., 1948, Ph.D., 1951, University of Pennsylvania.

BALL, WALTER LEE, *Assistant Professor of Electrical Engineering.*

B.E.E., 1949, M.E.E., 1955, Clemson Agricultural College.

BANISTER, ROBERT ALLEN, *Assistant Professor of Drawing.*

B.S., Clemson Agricultural College, 1939; M.S., Bradley University, 1949.

BAUKNIGHT, LEHMAN MEYNARDIE, JR., *Associate Professor of Agricultural Economics.*

B.S., 1935, M.S., 1949, Clemson Agricultural College.

BELL, MARSHALL CORNETT, *Associate Professor of Mathematics.*

A.B., 1933, M.A., 1936, University of North Carolina.

* Faculty list compiled November 1, 1955.

- BENNETT, JOHN ZEBULUN,* *Assistant Professor of English.*
A.B., 1947, M.A., 1948, Vanderbilt University; Graduate Work, University of Texas 1949-1950; University of North Carolina, 1954-1955; Summers, 1951-1953.
- BIGGS, GILBERT WARREN, *Associate Professor of Economics.*
B.S., 1946, M.S., 1947, Virginia Polytechnic Institute; Ph.D., Cornell University, 1953.
- BLOSS, ARNOLD MANDIGO, *Assistant Professor of Military Science and Tactics.*
Lieutenant Colonel, Armor, United States Army; B.S., Lehigh University, 1940; Basic Infantry Officers' Course, The Infantry School, 1942; Advanced Infantry Officers' Course, The Infantry School, 1943; Advanced Armor Officers' Course, The Armor School, 1948; Ground Course, Command and General Staff College, 1946; Special Weapons Course, Command and General Staff College, 1953.
- BOLEN, CLAUDE WALDRON, *Professor of History and Government.*
A.B., Emory and Henry College, 1931; M.A., 1935, Ph.D., 1941, Duke University.
- BOND, JOHN HOWARD, *Associate Professor of Bacteriology.*
B.S., 1948, M.S., 1949, Louisiana State University; Graduate Work, University of Texas, 1949-1952.
- BOOKER, LEONARD ROWLAND, *Itinerant State Teacher-Trainer Industrial Education.*
B.S., Clemson Agricultural College, 1925; M.S., University of Tennessee, 1932; Graduate Work, Clemson Agricultural College, Summers, 1938, 1939.
- BOWEN, WILLIAM CLAYTON, *Associate Professor of Vocational Education.*
B.S., Clemson Agricultural College, 1932; M.S., Colorado A & M College, 1940.
- BOYD, VIRLYN ALEXANDER, *Associate Professor of Rural Sociology.*
B.S.A., Berry College, 1941; M.S.A., University of Kentucky, 1948.
- BOYKIN, WILLIAM BAYNARD SIMONS, *Associate Professor of Agronomy.*
B.S., Clemson Agricultural College, 1950; Ph.D., University of Wisconsin, 1954.
- BRADBURY, DOUGLAS WILSON, *Associate Professor of Drawing.*
B.M.E., Clemson Agricultural College, 1940; Graduate Work, Virginia Polytechnic Institute, Summer, 1948.
- BRADLEY, MARK EDWARD, *Head of English Department, Emeritus; Professor Emeritus of English.*
A.B., Erskine College, 1898; Graduate Work, University of Chicago, Summers, 1904, 1910; University of North Carolina, Summer, 1927.
- BRANDT, GRAYDON WILLIAM, *Associate Professor of Dairying.*
B.S., Ohio State University, 1936; M.S., University of Nebraska, 1938; Graduate Work, Ohio State University, 1937-1941.
- BRANNON, CARROLL CLEVELAND, *Associate Professor of Dairying.*
B.S., Clemson Agricultural College, 1934; Graduate Work, Clemson Agricultural College, 1949.
- BREAZEALE, ROSCOE JEFFERSON, *Assistant Professor of Textile Chemistry and Dyeing.*
B.S., 1947, M.S., 1950, University of South Carolina.
- BREWSTER, JAMES PENDLETON, *Professor of Mathematics.*
A.B., 1935, M.A., 1939, Ph.D., 1952, Duke University.
- BROCK, DEWEY CLIFTON, *Associate Professor of Industrial Arts.*
B.S., University of South Carolina, 1925; Graduate Work, Clemson Agricultural College, 1947-1949.
- BROCK, JOHN LELAND, *Professor of Vocational Education.*
B.S., Clemson Agricultural College, 1927; M.A., George Peabody College, 1936.
- BROWN, CHARLES QUENTIN, *Assistant Professor of Geology.*
B.S., 1951, M.S., 1953, University of North Carolina; University of Tennessee, Summer, 1955.
- BROWN, HUGH MONROE, *Dean, School of Textiles.*
B.A., 1920, M.A., 1921, University of Denver; Ph.D., University of California, 1927.

* On leave.

- BROWN, JONAS WILLIAM**, *Assistant Professor of Mathematics*.
B.S., North Carolina State College, 1931; M.A., Duke University, 1948.
- BROWNLEY, FLOYD IRVING, JR.**, *Professor of Chemistry*.
B.S., Wofford College, 1939; M.S., Virginia Polytechnic Institute, 1941; Ph.D., Florida State University, 1952.
- BURTNER, FRANK ALAN**, *Associate Professor of Sociology*.
B.A., M.A., University of Texas, 1939; Graduate Work, University of Texas, Summer, 1940; Harvard University, Summer, 1941; University of North Carolina, 1944; Yale University, 1946-1947; University of North Carolina, 1947-1948.
- BYARS, EDWARD FORD**,^{*} *Assistant Professor of Mechanics and Hydraulics*.
B.M.E., 1946, M.C.E., 1953, Clemson Agricultural College.
- CALHOUN, FRED HARVEY HALL**, *Dean Emeritus, School of Chemistry and Geology; Professor Emeritus of Geology and Mineralogy*.
B.S., 1898, Ph.D., 1902, University of Chicago.
- CAMPBELL, THOMAS ALEXANDER, JR.**, *Associate Professor of Textiles*.
B.S., Clemson Agricultural College, 1928; M.Ed., Pennsylvania State College, 1947.
- CARODEMOS, PETER**, *Professor of Chemistry*.
B.S., Tufts College, 1922; Ph.D., Cornell University, 1927; Harvard University, Summer, 1932; Massachusetts Institute of Technology, Summers, 1941, 1949.
- CARPENTER, CHARLES HAROLD**, *Assistant Professor of History and Government*.
A.B., Lenoir-Rhyne College, 1945; M.A., George Peabody College, 1946; Graduate Work, University of Chicago, 1948-1949; University of North Carolina, 1949-1950, Summers, 1949, 1950.
- CARPENTER, KENNETH EUGENE**, *Assistant Professor of Air Science*.
Lieutenant Colonel, United States Air Force; B.S., University of Illinois, 1936; M.A., Ohio State University, 1937; Graduate Work, New York University, 1938-1939, Summers, 1946, 1949, 1950; Academic Instructors' School, 1953.
- CARROLL, HARRY**, *Instructor in Physics*.
B.S., Clemson Agricultural College, 1955; Graduate Work, Clemson Agricultural College, 1955-1956.
- CARTEE, EUGENE FRANKLIN**, *Professor of Weaving and Designing*.
B.S., Clemson Agricultural College, 1925; M.S., University of Tennessee, 1937; Graduate Work, Pennsylvania State College, Summer, 1941.
- CARTER, CLIFTON WALKER**, *Assistant Professor of Drawing*.
B.S., Clemson Agricultural College, 1933.
- CASKEY, CLAIRE OMAR**, *Assistant Professor of English*.
B.S., Appalachian State Teachers College, 1947; A.M., Duke University, 1948; Graduate Work, Duke University, Summer, 1949; University of North Carolina, 1951-1954.
- CAVNESS, WILLIAM DARREL**, *Assistant Professor of Military Science and Tactics*.
Lieutenant Colonel, Infantry, United States Army; B.S., Oklahoma A & M College, 1938; Ground Course, Command and General Staff College, 1946; Advanced Infantry Officers' course, The Infantry School.
- CLARKE, ELWYN LORENZO**, *Head of Civil Engineering Department, Emeritus; Professor Emeritus of Civil Engineering*.
B.S. in C.E., 1902, C.E., 1931, University of Illinois.
- COCHRAN, JAMES HARVEY**, *Head of Entomology and Zoology Department; Professor of Entomology and Zoology*.
B.S., Clemson Agricultural College, 1935; M.S., 1936, Ph.D., 1946, Iowa State College.
- COKER, EDWARD CALEB, JR.**, *Associate Professor of Mathematics*.
B.S., University of South Carolina, 1928; M.A., University of North Carolina, 1930; Graduate Work, Brown University, 1932; University of Chicago, Summers, 1936, 1938, 1939; University of Chicago, 1939-1940.
- COLLINGS, GILBEART HOOPER**, *Head of Agronomy Department; Professor of Soils*.
B.S., Virginia Polytechnic Institute, 1915; M.S., University of Illinois, 1917; Ph.D., Rutgers University, 1925.

^{*} On leave.

- COOK, JAMES CLINTON, JR., *Head of Mechanical Engineering Department; Professor of Mechanical Engineering.*
B.M.E., 1939, M.M.E., 1951, Clemson Agricultural College; M.S.E., 1953, Ph.D., 1955, University of Michigan.
- COOK, JAMES RUSSELL, *Associate Professor of Animal Husbandry.*
B.S., Texas Agricultural and Industrial College, 1939; M.S., Iowa State College, 1943.
- COOPER, HERBERT PRESS, *Professor of Agronomy.*
B.S., Clemson Agricultural College, 1911; M.S., University of Wisconsin, 1916; Ph.D., Cornell University, 1922.
- COOPER, JAMES BRONAUGH, *Associate Professor of Poultry Husbandry.*
B.S., 1935, M.S., 1938, University of Kentucky.
- COUCH, JAMES HOUSTON, *Assistant Professor of Forge and Foundry.*
B.S., 1941, M.S., 1954, Clemson Agricultural College.
- COX, HEADLEY MORRIS, *Acting Head of English Department; Professor of English.*
A.B., 1937, M.A., 1939, Duke University; Graduate Work, University of Pennsylvania, 1948-1950, Summer, 1955.
- CRADDOCK, GARNET ROY, *Assistant Professor of Agronomy.*
B.S., Virginia Polytechnic Institute, 1952; Ph.D., University of Wisconsin, 1955.
- CRAIG, JAMES TELFORD, *Assistant Professor of Agricultural Engineering.*
B.S., Clemson Agricultural College, 1951; Graduate Work, University of Georgia, Summers, 1954, 1955.
- CROUCH, SYDNEY JAMES LEONHARDT, *Head of Religion Department; Professor of Religion.*
Scotch College, Western Australia, 1910; Biblical Seminary, New York, 1915; B.D., Hartford Theological Seminary, 1922; Th.D., Union Theological Seminary, Richmond, Virginia, 1937.
- CURTIS, DONALD DEXTER, *Head of Mechanics and Hydraulics Department; Professor of Mechanics and Hydraulics.*
B.E., 1919, M.S., 1931, University of Iowa.
- DANIEL, DAVID WISTAR, *Dean Emeritus, School of Arts and Sciences; Professor Emeritus of English.*
A.B., Wofford College, 1892; M.A., Vanderbilt University, 1901; Litt.D., Wofford College, 1914.
- DAVIS, CECIL COOK, *Assistant Professor of Economics.*
B.B.A., 1947, M.B.A., 1949, University of Georgia; Graduate Work, University of North Carolina, Summer, 1950.
- DAVIS, ROBERT EDWARD, *Assistant Professor of Military Science and Tactics.*
Captain, Signal Corps, United States Army; University of Illinois; RCA and Western Union Communications School, 1948; Signal Corps Officers' Advanced Course, 1954.
- DEAN, JORDAN ARTHUR, *Associate Professor of French and Spanish.*
A.B., Wofford College, 1933; M.A., Vanderbilt University, 1934; Graduate Work, University of Illinois, 1937.
- DINWIDDIE, JOSEPH GRAY, JR., *Associate Professor of Chemistry.*
B.S., Randolph-Macon College, 1942; Ph.D., University of Virginia, 1949.
- DOUGLASS, GEORGE ARCHIBALD, *Professor of Military Science and Tactics.*
Colonel, Infantry, United States Army; B.S., Clemson Agricultural College, 1931; M.S., University of Michigan, 1948; The Armored School, 1941; Command and General Staff College, 1945; The Infantry School, 1950; Armed Forces Staff College, 1951.
- DOYLE, ROBERT HUGH, *Assistant Professor of Drawing and Designing.*
B.S. in C.E., University of Kentucky, 1952.
- DUNAVAN, DAVID, *Associate Professor of Entomology and Zoology.*
B.S., Oregon Agricultural College, 1925; M.S., Iowa State College, 1928; Graduate Work, Cornell University, Summers, 1929, 1931, 1935.

- DUNKELBERG, GEORGE HAMLIN, *Professor of Agricultural Engineering.*
B.S., 1937, M.S., 1938, Iowa State College.
- EARLE, SAMUEL BROADUS, *Dean Emeritus, School of Engineering; Professor Emeritus of Mechanical Engineering; Director Emeritus, Engineering Experiment Station.*
A.B., 1893, A.M., 1899, Furman University; M.E., Cornell University, 1902; LL.D., Furman University, 1932.
- EDWARDS, JAMES LEON, *Associate Professor of Mechanical Engineering.*
B.M.E., Clemson Agricultural College, 1941; M.S., Pennsylvania State College, 1951.
- EFLAND, THOMAS DANIEL, *Associate Professor of Knitting.*
B.S., North Carolina State College, 1949; Graduate Work, Georgia Institute of Technology, 1954-1955.
- ELLNER, ANTHONY, JR., *Associate Professor of Architecture.*
A.B., Brooklyn College, 1939; M.A., Columbia University, 1940; B.Arch., Yale University, 1948.
- ELROD, ALVON CREIGHTON, *Assistant Professor of Mechanical Engineering.*
B.M.E., 1949, M.M.E., 1951, Clemson Agricultural College.
- EPTING, CARL LAFAYETTE, *Acting Head of Social Sciences Department; Professor of History and Government.*
A.B., Newberry College, 1921; A.M., University of South Carolina, 1924; Graduate Work, University of South Carolina, 1926, 1928, 1932-1934, 1953; University of North Carolina, Summers, 1927, 1928.
- FAIN, CHARLES CLIFFORD, *Instructor in Ceramic Engineering.*
B.Cr.En., Clemson Agricultural College, 1954.
- FARRAR, MILTON DYER, *Dean of Agriculture.*
B.S., Iowa State College, 1925; M.S., South Dakota State College, 1927; Ph.D., Iowa State College, 1933.
- FELDER, HERMAN McDONALD, JR., *Assistant Professor of English.*
A.B., Wofford College, 1930; M.A., Vanderbilt University, 1937; Graduate Work, Duke University, Summers, 1933, 1934, 1946; University of North Carolina, Summer, 1953.
- FERNOW, BERNHARD EDWARD, *Professor of Mechanical Engineering.*
A.B., 1904, M.E., 1906, Cornell University.
- FORD, JOHN MARTIN, *Associate Professor of Civil Engineering.*
B.C.E., Clemson Agricultural College, 1946; M.S., University of North Carolina, 1950.
- FREEMAN, EDWIN JONES, *Head of Industrial Engineering Department; Professor of Industrial Engineering and Metallurgy.*
B.S., 1922, M.E., 1939, Clemson Agricultural College; M.S., Virginia Polytechnic Institute, 1942.
- GAGE, GASTON, *Head of Yarn Manufacturing Department, Professor of Carding and Spinning.*
B.S., Clemson Agricultural College, 1921; M.Ed., Pennsylvania State College, 1941.
- GENTRY, JOHN BAKER, JR., *Professor of Education.*
B.S., Furman University, 1932; Ed.M., Duke University, 1939; Graduate Work, University of Georgia, Summers, 1949, 1950, 1951.
- GILLESPIE, JOHN WILLIAM, *Instructor in Chemistry.*
B.S., 1948, M.S., 1954, Clemson Agricultural College.
- GLENN, HOWARD EMMITT, *Vice-Director, Engineering Experiment Station, Professor of Civil Engineering.*
B.S. in C.E., 1922, C.E., 1927, University of Kentucky; Graduate Work, Illinois Institute of Technology, Summer, 1940.
- GODLEY, WILLIE CECIL, *Associate Professor of Animal Husbandry.*
B.S., Clemson Agricultural College, 1943; M.S., 1949, Ph.D., 1955, North Carolina State College.

- GOLDGAR, BERTRAND ALVIN,* *Assistant Professor of English.*
B.A., 1948; M.A., 1949, Vanderbilt University; Graduate Work, Columbia University, Summer, 1950, Princeton University, 1954-1956.
- GOODALE, BEN EDMUND, *Professor of Dairying.*
B.S., 1922; M.S., 1929, Iowa State College.
- GOODIN, CURTIS PAUL, *Assistant Professor of Electrical Engineering.*
B.S., University of Kentucky, 1948; Graduate Work, Georgia Institute of Technology, 1952-1953, Summer, 1954.
- GOODWIN, WILLIAM JENNINGS, JR., *Associate Professor of Entomology.*
B.S., Oklahoma A & M College, 1950; M.S., 1951, Ph.D., 1953, Cornell University.
- GRAHAM, DEE McDONALD, *Assistant Professor of Dairying.*
B.S., Mississippi State College, 1950; M.S., 1951, Ph.D., 1954, Iowa State College.
- GRAHAM, JOHN SMITH, *Assistant Professor of Research and Testing.*
B.S., Clemson Agricultural College, 1943.
- GRAVES, CHARLES PARKER, *Instructor in Architecture.*
B.S., 1953, B.Arch., 1954, Georgia Institute of Technology.
- GREEN, CLAUD BETHUNE, *Professor of English.*
B.A., 1935, M.A., 1938, University of Georgia; Ph.D., Duke University, 1953.
- GREEN, JOSEPH COLEMAN, *Professor of English.*
B.A., 1920, M.A., 1924, Ph.D., 1937, Vanderbilt University.
- GUGGINO, JOSEPH G., *Assistant Professor of Air Science.*
Captain, United States Air Force; B.S., Furman University, 1940.
- GUNNIN, EMERY AARON, *Associate Professor of Architecture.*
B.S., Clemson Agricultural College, 1950; Graduate Work, Clemson Agricultural College.
- GUNTHER, GEORGE WILLIAM, *Assistant Professor of Architecture.*
B.F.A., Washington University, 1948; M.F.A., Indiana University, 1951.
- HAMILTON, MAX GREENE, *Associate Professor of Horticulture.*
B.S., North Carolina State College, 1949; Ph.D., Cornell University, 1953.
- HAMMOND, ALEXANDER FRANCIS, *Assistant Professor of Drawing and Designing.*
B.E.E., Clemson Agricultural College, 1949.
- HANDLIN, DALE LEE, *Assistant Professor of Animal Husbandry.*
B.S., Kansas State College, 1951; M.S., Texas A & M College, 1954.
- HARDEN, JOHN CHARLES, JR., *Assistant Professor of Mathematics.*
B.S., Mississippi College, 1947; M.A., University of Tennessee, 1949.
- HARRIS, CLAUDE EARL, JR., *Assistant Professor of Air Science.*
Captain, United States Air Force, Senior Pilot; B.S., Oklahoma A & M College, 1955; Academic Instructors' School, 1953.
- HEYN, ANTONIUS NICOLAAS JOHANNES, *Professor of Natural and Synthetic Fibers.*
B.S., and M.S., 1929, Ph.D., 1931, Utrecht University; College de France, 1932-1933.
- HIND, ALFRED THOMAS, JR., *Professor of Mathematics.*
A.B., 1934, M.A., 1936, Emory University; Ph.D., University of Georgia, 1952.
- HOBSON, JAMES HARVEY, *Professor of Chemistry.*
B.S., University of South Carolina, 1939; M.A., 1947, Ph.D., 1953, Emory University.
- HODGE, WYLIE FORT DUPRE, *Associate Professor Emeritus of Architecture.*
Clemson Agricultural College, 1907-1909; New York School of Fine and Applied Arts, 1915-1916, 1920-1921; R.R., Gallerie di Firenze, Italy, Summer, 1931.
- HODGES, BAXTER HOWARD, *Assistant Professor of Chemistry.*
B.S., Clemson Agricultural College, 1933; Graduate Work, University of North Carolina, Summers, 1935-1939; Virginia Polytechnic Institute, Summers, 1940-1942.

* On leave.

- HOLT, ALBERT HAMILTON, *Assistant Professor of English.*
A.B., 1939, M.A., 1947, University of North Carolina; Graduate Work, Vanderbilt University, 1952-1953, Summers, 1951, 1954.
- HUBBARD, JULIUS CLIFFORD, JR., *Associate Professor of Weaving.*
B.S., Clemson Agricultural College, 1942; M.S., Georgia Institute of Technology, 1950.
- HUDSON, WILLIAM GARRAUX, *Assistant Professor of Mechanical Engineering.*
B.M.E., Clemson Agricultural College, 1946.
- HUFF, LORENZ DITMAR, *Head of Physics Department; Professor of Physics.*
A.B., 1927, M.S., 1928, Oklahoma University; Ph.D., California Institute of Technology, 1931.
- HUMPHREYS, HAROLD WESLEY, *Associate Professor of Mechanics and Hydraulics.*
B.C.E., North Carolina State College, 1943; M.S., State University of Iowa, 1950.
- HUNTER, HOWARD LOUIS, *Dean, School of Arts and Sciences; Professor of Chemistry.*
B.Chem., 1925, Ph.D., 1928, Cornell University; Massachusetts Institute of Technology, Summer, 1939.
- HUNTER, JOHN HENRY, *Associate Professor of Civil Engineering.*
B. of C.E., University of Virginia, 1944; M.S. in CE., Harvard University, 1949; Graduate Work, Columbia University, Summers, 1951, 1953; University of Illinois, Summer, 1952.
- HURST, VICTOR, *Associate Professor of Dairying.*
B.S., 1938, M.S., 1940, Rutgers University; Ph.D., University of Missouri, 1948.
- JAMESON, LAKE HUGH, *Assistant Professor of Textiles.*
B.S., Clemson Agricultural College, 1942; M.S., North Carolina State College, 1952.
- JOHNSON, JAMES KARL, JR., *Instructor in Mechanical Engineering.*
B.M.E., Clemson Agricultural College, 1950.
- JONES, CHAMP McMILLIAN, *Associate Professor of Agronomy.*
B.S., Clemson Agricultural College, 1939; M.S., Cornell University, 1940; Ph.D., Michigan State College, 1952.
- JONES, JESS WILLARD, *Director of Agricultural Teaching.*
B.S., Clemson Agricultural College, 1937; M.S., 1938, Ph.D., 1953, Cornell University.
- KELLY, LOUIS GRANT, *Associate Professor of Mathematics.*
B.S., Clemson Agricultural College, 1937; M.S., University of Minnesota, 1949; Graduate Work, University of Minnesota, 1949-1950.
- KENDRICK, NISBET STOVALL, JR., *Assistant Professor of Physics.*
B.S., North Georgia College, 1949; M.S., Emory University, 1950.
- KERSEY, ROBERT NOEL, JR., *Assistant Professor of Electrical Engineering.*
B.S. in E.E., Georgia School of Technology, 1942.
- KING, DONALD ALBERT, *Assistant Professor of Mathematics.*
A.B., Hanover College, 1950; M.S., Purdue University, 1952.
- KING, WILLIS ALONZO, *Professor of Dairying.*
B.S., Clemson Agricultural College, 1936; M.S., 1938, Ph.D., 1940, University of Wisconsin.
- KIRK, VERNON MILES, *Associate Professor of Entomology.*
B.S., Dickinson College, 1947; Ph.D., Cornell University, 1951.
- KIRKLEY, FRANCIS EDWARD, *Associate Professor of Vocational Education.*
B.S., Clemson Agricultural College, 1929; M.S., University of Kentucky, 1951.
- KIRKWOOD, CHARLES EDWARD, JR., *Associate Professor of Mathematics.*
A.B., Lynchburg College, 1935; M.S., University of Georgia, 1937; Graduate Work, University of North Carolina, Summer, 1939; Duke University, Summer, 1940.
- LAGRONE, JOHN WALLACE, *Associate Professor of Mathematics.*
B.S., Clemson Agricultural College, 1932; M.A., Vanderbilt University, 1934; Graduate Work, University of Kentucky, 1939-1940.

- LAMASTER, JOSEPH PAUL**, *Head of Dairy Department; Professor of Dairying.*
B.S., 1913, M.S., 1928, University of Kentucky.
- LANDER, ERNEST MCPHERSON, JR.**, *Professor of History and Government.*
A.B., Wofford College, 1937; M.A., 1939, Ph.D., 1950, University of North Carolina.
- LANDERS, KNOX SCHAFER**, *Instructor in Chemistry.*
B.S., 1951, M.S., 1955, University of Alabama.
- LANE, JOHN DEWEY**, *Professor of English.*
A.B., Newberry College, 1920; M.A., University of Virginia, 1924; Graduate Work, Columbia University, 1928-1929; Summer, 1923; George Peabody College, Summer, 1935.
- LANGSTON, JAMES HORACE**, *Professor of Textile Chemistry and Dyeing.*
A.B., Stephen F. Austin State Teachers College of Texas, 1937; M. A., 1939, Ph.D., 1941, University of North Carolina.
- LAROCHE, EVAN ALLEN**, *Associate Professor of Weaving.*
B.S., Clemson Agricultural College, 1942; M.S., Georgia Institute of Technology, 1951.
- LAYMAN, RALPH ELMER, JR.**, *Assistant Professor of Military Science and Tactics.*
Captain, Ordnance Corps, United States Army; Texas A & M College; Basic Ordnance Corps Officers' Course, 1949; Advanced Ordnance Corps Officers' Course, 1953.
- LAZAR, JAMES TARLTON, JR.**, *Associate Professor of Dairying.*
B.S., Clemson Agricultural College, 1943; M.S., Cornell University, 1949; Ph.D., North Carolina State College, 1955.
- LEE, RUDOLPH EDWARD**, *Head of Architectural Department, Emeritus; Professor Emeritus of Architecture.*
B.S., 1896, M.Arch., 1928, Clemson Agricultural College.
- LEHOTSKY, KOLOMAN**, *Professor of Forestry.*
Ing., Bohemian Technical University, Prague, Czechoslovakia, 1928; Ph.D., University of Michigan, 1934.
- LEWIS, ALEXANDER DODGE**, *Professor of Mechanical Engineering.*
B.S. in M.E., University of Tennessee, 1939; M.M.E., Yale University, 1946.
- LINDSAY, JOSEPH, JR.**, *Head of Textile Chemistry and Dyeing Department; Professor of Textile Chemistry and Dyeing.*
A.B., Erskine College, 1919; M.S., University of Tennessee, 1945.
- LINDSEY, TATE JEFFERSON**, *Professor of Physics.*
B.A., Mississippi College, 1928; Ph.D., Indiana University, 1936.
- LITTLEJOHN, CHARLES EDWARD**, *Acting Head of Chemical Engineering Department; Professor of Chemical Engineering.*
B.S., Clemson Agricultural College, 1940; M.Ch.E., North Carolina State College, 1941; Ph.D., Virginia Polytechnic Institute, 1952.
- LONG, JIM THOMAS**, *Associate Professor of Electrical Engineering.*
B.E.E., Clemson Agricultural College, 1943; M.S. in E.E., Georgia Institute of Technology, 1949; Graduate Work, Georgia Institute of Technology, 1951-1952.
- LOWRY, WALTER LEE, JR.**, *Head of Civil Engineering Department; Professor of Civil Engineering.*
B.S. in C.E., Virginia Military Institute, 1930; M.C.E., Rensselaer Polytechnic Institute, 1938.
- LUNA, BENJAMIN CURTIS, JR.**, *Assistant Professor of Air Science.*
Captain, United States Air Force; A.B., University of Alabama, 1949; Academic Instructors' School, 1953.
- LUSE, WILLIAM MARTIN**, *Assistant Professor of Military Science and Tactics.*
Captain, Ordnance Corps, United States Army; B.S., in Commerce, University of Santa Clara, 1949; Ordnance Officers' Associate Basic Course, 1950; Associate Infantry Company Officers' Course, 1952.

McCLURE, HARLAN EWART, *Head of Architectural Department; Professor of Architecture.*

A.B., B. Arch., George Washington University, 1937; ARK, KKH, Royal Swedish Academy, 1938; M. Arch., Massachusetts Institute of Technology, 1941.

McCORMAC, JACK CLARK, *Assistant Professor of Civil Engineering.*

B.S., The Citadel, 1948; M.S., Massachusetts Institute of Technology, 1949.

McGARITY, HUGH HARRIS, *Associate Professor of Music Education.*

B.F.A., 1940, M.F.A., 1946, University of Georgia; Graduate Work, University of Southern California, Summer, 1947; Florida State University, 1951-1953.

McGEE, CHARLES McKAY, JR., *Assistant Professor of English.*

A.B., Furman University, 1934; A.M., Duke University, 1941; Graduate Work, Duke University, 1946.

McHUGH, CARL MANNING, *Associate Professor of Drawing.*

B.S., Clemson Agricultural College, 1936; Graduate Work, Virginia Polytechnic Institute, Summer, 1948.

McKENNA, ARTHUR ERNEST, *Head of Weaving and Designing Department; Professor of Weaving and Designing.*

Graduate, Rhode Island School of Design, 1922; Bradford-Durfee Textile School, 1925; B.S., Clemson Agricultural College, 1930; M.S., University of Tennessee, 1933.

McLEOD, HERBERT EUGENE,* *Instructor in Agricultural Engineering.*

B.S., Clemson Agricultural College, 1951.

MACAULAY, HUGH HOLLEMAN, JR.,* *Assistant Professor of Economics.*

B.S., 1947, M.S., 1948, University of Alabama; Graduate Work, Columbia University, 1951-1955.

MACINTOSH, FRED HENRY, *Associate Professor of English.*

A.B., University of South Carolina, 1936; M.A., 1942, Ph.D., 1955, Duke University.

MACKENZIE, JOHN STRONG, *Instructor in English.*

B.A., University of Southern California, 1949; M.A., Columbia University, 1955; Graduate Work, University of North Carolina, Spring and Summer, 1955.

MAJOR, WILLIAM McLaurin, JR., *Assistant Professor of Military Science and Tactics.*

Captain, Infantry, United States Army; B.S., University of Florida, 1947; Officers Candidate School, The Infantry School, 1944; Army Air Support Specialist School, 1951; Officers Advanced Course, The Infantry School, 1955; Basic Airborne Course, The Infantry School, 1955.

MANWILLER, ALFRED, *Associate Professor of Agronomy.*

B.S., 1938, M.S., 1939, Iowa State College; Ph.D., Pennsylvania State College, 1944.

MARSHALL, JOHN LOGAN, *Head of Industrial Arts Department; Professor of Industrial Arts.*

B.S., Clemson Agricultural College, 1909; Graduate Work, Bradley Polytechnic Institute, 1919.

MARTIN, JOHN CAMPBELL, *Assistant Professor of Electrical Engineering.*

B.E.E., Clemson Agricultural College, 1948; M.S., Massachusetts Institute of Technology, 1953.

MARTIN, SAMUEL MANER, *Head of Mathematics Department, Emeritus; Professor Emeritus of Mathematics.*

B.S., The Citadel, 1896; Graduate Work, Cornell University, Summer, 1900; Harvard University, Summer 1904; University of Chicago, Summer, 1908.

MARVIN, JOHN HENRY, JR., *Assistant Professor of Yarn Manufacturing.*

B.S., Clemson Agricultural College, 1941.

MATHEWS, ANDREW CLARK, *Associate Professor of Botany.*

A.B., 1928, M.A., 1931, Ph.D., 1939, University of North Carolina.

MAULDIN, WILLIAM LAWRENCE, *Associate Professor of Chemistry.*

B.S., Furman University, 1936; M.A., 1939, Ph.D., 1954, University of North Carolina.

* On leave.

- MEANS, GEORGE CALVIN, JR., Associate Professor of Architecture.**
B. of Arch., Western Reserve University, 1947; M. Arch., Georgia Institute of Technology, 1955.
- MECKS, CHARLES DAVENPORT, Assistant Professor of Industrial Engineering.**
B.M.E., Clemson Agricultural College, 1942.
- MILLER, JOHN EDWARD, Associate Professor of Physics.**
B.S., Randolph-Macon College, 1948; M.A., 1950, Ph.D., 1952, University of Virginia.
- MILLER, WILLIAM GILBERT, Professor of Mathematics.**
A.B., Birmingham Southern College, 1931; M.A., 1933, Ph.D., 1951, University of Florida.
- MITCHELL, JACK HARRIS, Professor Emeritus of Chemistry.**
B.S., 1903, M.S., 1904, Alabama Polytechnic Institute; M.S., University of Illinois, 1911.
- MONROE, JAMES BEASLEY, Head of Vocational Agricultural Education Department; Professor of Vocational Education.**
B.S., Clemson Agricultural College, 1915; M.S., Texas A & M College, 1935; Graduate Work, Cornell University, Summer, 1938.
- MOORE, ELBERT LEE, Assistant Professor of Air Science.**
Major, United States Air Force; Senior Pilot; B.S., Virginia Polytechnic Institute, 1941; Academic Instructors' School, 1952.
- MOORMAN, ROBERT WARDLAW, Professor of Mechanics and Hydraulics.**
B.C.E., Clemson Agricultural College, 1940; M.S., 1947, Ph.D., 1955, State University of Iowa.
- MORGAN, CHARLES LEE, Head of Poultry Husbandry Department; Professor of Poultry Husbandry.**
B.S., 1918, M.S., 1927, University of Kentucky; Graduate Work, University of Wisconsin, 1931-1932.
- MOSS, ALEX ANDREW, Assistant Professor of Civil Engineering.**
B.C.E., Clemson Agricultural College, 1948; Graduate Work, Clemson Agricultural College.
- MOTES, MARSHALL MILFORD, Assistant Professor of Military Science and Tactics.**
Lieutenant Colonel, Quartermaster Corps, United States Army; B.S., Clemson Agricultural College, 1938; Officers' Advanced Course, Infantry School, 1943; Quartermaster School Officers' Basic Course, 1948; Post Graduate Course, Institutional Management, Cornell University, 1949; Officers' Advanced Course, Quartermaster, 1951.
- MURPHY, JAMES AUBREY, Instructor in Agricultural Engineering.**
B.S., Clemson Agricultural College, 1955.
- MUSSER, ALBERT MYERS, Head of Horticulture Department; Professor of Horticulture.**
B.S., University of Florida, 1918; Graduate Work, Michigan State College, 1930, 1933.
- NEWMAN, ROBERT COLEA, JR., Assistant Professor of Air Science.**
Major, United States Air Force; Senior Pilot; B.S., University of Maryland, 1949; Academic Instructors' School, 1954.
- NEWTON, ALFRED FRANKLIN, Instructor in Industrial Engineering.**
B.S., Clemson Agricultural College, 1952.
- NOWACK, ROBERT FRANCIS, Assistant Professor of Mechanics and Hydraulics.**
B.S., Carnegie Institute of Technology, 1948; M.S., University of Pittsburgh, 1952; Graduate Work, Virginia Polytechnic Institute, Summers, 1954, 1955.
- NYCARD, WALTER EDWIN, Assistant Professor of Military Science and Tactics.**
Major, Signal Corps, United States Army; B.S., United States Military Academy, 1943; Army Security Agency, Advanced Officers' School, 1948; Advanced Signal Corps Officers' Course, 1953.
- O'HANLON, JOSEPH PATRICK, Assistant Professor of Military Science and Tactics.**
Captain, Corps of Engineers, United States Army; B.S., United States Military Academy, 1945; M.S., Massachusetts Institute of Technology, 1949; Engineer Officers' Advanced Course, 1951.

- OLIVEROS, ROBERT LOVELL, *Assistant Professor of Religion*.
B.A., The Citadel, 1941; B.D., University of the South, 1949; University of Oxford, 1950-1951.
- OWINGS, MARVIN ALPHEUS, *Professor of English*.
A.B., Wofford College, 1931; M.A., 1932, Ph.D., 1941, Vanderbilt University.
- PAGE, CLAYTON MEREDITH, *Associate Professor of Architecture*.
B. Arch., University of Minnesota, 1946; M. Arch., Harvard University, 1949.
- PAGE, NORWOOD RUFUS, *Associate Professor of Agronomy*.
B.S., Clemson Agricultural College, 1939; M.S., North Carolina State College, 1941.
- PARK, EUGENE, *Associate Professor of Mathematics*.
A.B., University of Georgia, 1939; M.A., Lehigh University, 1941; Graduate Work, University of Wisconsin, 1947-1948.
- PERRY, ROBERT LINDSAY, *Assistant Professor of Mechanical Engineering*.
B.M.E., 1947, M.M.E., 1953, Clemson Agricultural College.
- PITNER, JOHN BRUCE, *Head of Agronomy Department; Professor of Agronomy*.
B.S., 1938, M.S., 1939, Mississippi State College; Ph.D., University of Wisconsin, 1944.
- POE, HERBERT VERNON, *Associate Professor of Electrical Engineering*.
B.S. in E.E., North Carolina State College, 1944; M.S. in E.E., Texas A & M College, 1950.
- POLK, HENRY TASKER, *Professor of Chemistry*.
B.S., 1931, M.S., 1933, University of Kentucky; Ph.D., Cornell University, 1938.
- POLLARD, FRANK HOWELL, *Professor Emeritus of Chemistry*.
B.Chem., 1916, Ph.D., 1922, Cornell University.
- PURSER, DAVID INGRAM, *Assistant Professor of English*.
B.A., Furman University, 1937; M.A., Duke University, 1942; M.A., Middlebury College, 1955.
- RAINEY, WILLIAM THOMAS, JR., *Associate Professor of Textile Chemistry and Dyeing*.
B.S., Davidson College, 1939; Ph.D., University of North Carolina, 1949.
- RAUSCH, KARL WILLIAM, *Professor of Mechanical Engineering*.
B.S. in M.E., 1920, M.E., 1923, Case School of Applied Science.
- REED, ALBERT RAYMOND, *Associate Professor of Physics*.
A.B., Wofford College, 1925; M.S., University of South Carolina, 1931; Graduate Work, University of North Carolina, Summers, 1931, 1933.
- REED, CHARLES ALBERT, *Professor of Physics*.
A.B., 1926, M.S., 1929, Ph.D., 1948, University of Oklahoma.
- RHODES, SAM ROSEBOROUGH, *Professor Emeritus of Electrical Engineering*.
B.L., 1900, M.S., 1901, Furman University; B.S., 1907, E.E., 1928, Clemson Agricultural College.
- RHYNE, ORESTES PEARL, *Head of Modern Language Department; Professor of Modern Languages*.
A.B., Lenoir-Rhyne College, 1907; A.B., 1908, A.M., 1909, University of North Carolina; Ph.D., Johns Hopkins University, 1913; University of Heidelberg, Summer, 1914; Resident in Leipzig, 1922.
- RICHARDSON, JOEL LANDRUM, *Assistant Professor of Textiles*.
B.S., Clemson Agricultural College, 1942.
- RITCHIE, ROBERT RUSSELL, *Professor of Animal Husbandry*.
B.S., 1926, M.S., 1938, Iowa State College.
- ROBINSON, GILBERT CHASE, *Head of Ceramic Engineering Department; Professor of Ceramic Engineering*.
B.Cer.E., North Carolina State College, 1940.
- ROGERS, ERNEST BRASINGTON, *Associate Professor of Agricultural Engineering*.
B.S., Clemson Agricultural College, 1948; M.S., Texas A & M College, 1952.

- ROSENKRANS, DUANE BENJAMIN, *Professor of Botany.*
A.B., Upper Iowa University, 1911; M.A., University of Wisconsin, 1917.
- ROSTRON, JOSEPH PRUGH, *Assistant Professor of Civil Engineering.*
A.A., Pasadena Junior College, 1935; B.S. in C.E., Southern Methodist University, 1941; Graduate Work, Clemson Agricultural College.
- RUSH, JOHN MILLARD, *Associate Professor of Bacteriology.*
A.B., Indiana University, 1928; M.S., Illinois University, 1935; Ph.D., Purdue University, 1947.
- RUTLEDGE, RAY WATSON, *Associate Professor of Botany.*
B.S., Union University, 1923; M.A., George Peabody College, 1924; Ph.D., University of Chicago, 1930.
- SALLEY, JAMES RAWORTH, JR., *Assistant Professor of Chemistry.*
B.S., College of Charleston, 1937; M.S., Clemson Agricultural College, 1953.
- SAMS, JAMES HAGOOD, JR., *Dean, School of Engineering.*
B.S., Clemson Agricultural College, 1924; E.E., Cornell University, 1926; M.S., 1931, Ph.D., 1937, University of Michigan.
- SANDERS, PAUL, *Assistant Professor of Military Science and Tactics.*
Captain, Armor, United States Army; B.S., Clemson Agricultural College, 1943; Officers Candidate School, 1943; Armored Officers' Basic Course, 1949; Armored Officers' Advanced Course, 1954.
- SCHILDHAUER, ADOLPH FREDERICK, *Visiting Professor of Mechanical Engineering.*
B.S., Case Institute of Technology, 1921.
- SCHIRMER, FRANK BONNELL, JR., *Head of the Department of Chemistry and Geology; Professor of Chemistry.*
B.S., Clemson Agricultural College, 1934; Ph.D., Cornell University, 1939.
- SEFICK, HAROLD JOHN, *Associate Professor of Horticulture.*
B.S., 1935, M.S., 1937, Rutgers University; Graduate Work, Michigan State College, 1941-1942, Fall, 1948.
- SENN, TAZE LEONARD, *Associate Professor of Horticulture.*
B.S., Clemson Agricultural College, 1939; M.S., University of Maryland, 1950.
- SHACKELFORD, MACFARLAND, *Assistant Professor of Physics.*
B.S., Virginia Polytechnic Institute, 1920.
- SHELDON, DAWSON CLEMENT, *Head of Mathematics Department; Professor of Mathematics.*
B.S., State College of Washington, 1925; M.A., 1927, Ph.D., 1929, University of California.
- SHELLEY, ROBERT CLIFTON, *Associate Professor of Agronomy.*
B.S., Clemson Agricultural College, 1940; Graduate Work, Mississippi State College, 1950-1951.
- SHIGLEY, JOSEPH EDWARD, *Head of Drawing and Designing Department; Professor of Machine Design.*
B.S. in E.E., 1931, B.S. in M.E., 1932, Purdue University; M.S., University of Michigan, 1946.
- SHOOLBRED, ROBERT ADAMS, *Assistant Professor of Mechanics.*
B.C.E., Clemson Agricultural College, 1951; M.S. in C.E., University of Missouri School of Mines and Metallurgy, 1954.
- SIMPSON, FRANCIS MARION, *Visiting Professor of Agricultural Economics.*
B.S., University of Illinois, 1909.
- SNELL, ABSALOM WEST, *Head, Agricultural Engineering Department; Professor of Agricultural Engineering.*
B.S., Clemson Agricultural College, 1949; M.S., Iowa State College, 1952.
- SPEER, WILLIAM ARTHUR, *Associate Professor of Architecture.*
B.S., Clemson Agricultural College, 1937.

- STANLEY, EDWARD LEMUEL, *Associate Professor of Mathematics.*
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.
- STARKEY, LAWRENCE VINCENT, *Head of Animal Husbandry Department;*
Professor of Animal Husbandry.
B.S., University of Illinois, 1914; M.S., University of Wisconsin, 1917; Graduate Work,
University of Wisconsin, 1930.
- STENSTROM, EDWARD FARNUM,* *Associate Professor of Industrial Engineering.*
B.S., Clemson Agricultural College, 1943; M.S.E., University of Florida, 1954.
- STAPP, JAMES MARVIN, *Professor of Agricultural Economics.*
A.B., Berea College, 1937; M.A., 1938, Ph.D., 1940, University of Virginia.
- ST. HUBERT, ROBERT LAMONTAGNE, *Visiting Professor of Architecture.*
Ecole des Beaux Arts, Paris; University of Paris.
- STRUBLING, BRUCE HODGSON, *Associate Professor of Vocational Education.*
B.S., Clemson Agricultural College, 1918; M.S., Ohio State University, 1945.
- STUART, CHARLES MORGAN, *Assistant Professor of Mathematics.*
A.B., Wofford College, 1920; M.A., Duke University, 1935; Graduate Work, University
of South Carolina, 1938, 1945.
- SULLIVAN, JOHN RUSSELL, *Assistant Professor of Mathematics.*
A.B., 1939, M.A., 1949, Georgetown University; Graduate Work, University of
North Carolina, 1950-1952, Summer, 1953.
- TARRANT, WILLIAM EDWARD, SR., *Associate Professor of Weaving.*
B.S., Clemson Agricultural College, 1927; M.Ed., Pennsylvania State College, 1947.
- TAYLOR, DONALD AUSTIN, *Assistant Professor of Military Science and Tactics.*
Captain, Corps of Engineers, United States Army; B.A., Wofford College, 1939.
- TAYLOR, HAROLD DOUGLASS, *Associate Professor of Horticulture.*
B.S., Clemson Agricultural College, 1948; M.S., North Carolina State College, 1953.
- TAYLOR, RUPERT, *Professor of English.*
A.B., 1903, A.M., 1906, University of Arkansas; Ph.D., Columbia University, 1911.
- THODE, FREDERICK WILBUR, *Associate Professor of Horticulture.*
B.S., Clemson Agricultural College, 1940; M.S., Cornell University, 1951.
- THOMPSON, JOHN LESTER, *Assistant Professor of Yarn Manufacturing.*
B.S., Clemson Agricultural College, 1942.
- THOMSON, DANIEL PARK, JR., *Associate Professor of Yarn Manufacturing.*
B.S., Clemson Agricultural College, 1927; M.A.Ed., University of Florida, 1952.
- THURSTON, JAMES NORTON, *Head of Electrical Engineering Department; Pro-*
fessor of Electrical Engineering.
B.E.E., Ohio State University, 1936; S.M., 1943, Sc.D., 1950, Massachusetts Institute
of Technology.
- TINGLE, WOODROW WILSON, *Instructor in Geology.*
B.S., University of North Carolina, 1950; Graduate Work, University of North
Carolina, 1951-1955.
- TODD, BOYD JOSEPH, *Associate Professor of Agricultural Economics.*
B.S., 1946, M.S., 1948, Clemson Agricultural College; Graduate Work, North Caro-
lina State College, Summer, 1949.
- TREVILLIAN, WALLACE DABNEY, *Head of Industrial Management Department;*
Professor of Economics.
B.S., 1940, M.A., 1947, Ph.D., 1954, University of Virginia.
- TRIVELY, ILO ALLELY, *Professor of Civil Engineering.*
B.S., in C.E., 1928, M.S. in C.E., 1941, University of Nebraska.

* On leave.

- TULL, LLOYD HARRISON, *Professor of Air Science*.
Colonel, United States Air Force, Command Pilot; B.S., Georgia Institute of Technology, 1926.
- TUTTLE, JACK EDWIN, *Assistant Professor of History and Government*.
B.A., 1940, M.A., 1948, Pennsylvania State College; Graduate Work, University of South Carolina, 1949-1951.
- VAN BLARICOM, LESTER OSCAR, *Associate Professor of Food Technology*.
B.S., 1938, M.S., 1940, Ch.E., 1954, Oregon State College.
- VOGEL, HENRY ELLIOTT, *Assistant Professor of Physics*.
B.S., Furman University, 1948; M.S., University of North Carolina, 1950.
- VON KAENEL, JOHN CLIFFORD, *Assistant Professor of Machine Design*.
B.M.E., Clemson Agricultural College, 1954.
- WAITE, EDWIN EMERSON, JR., *Associate Professor of Sociology and Psychology*.
B.S., Middlebury College, 1929; M.A., Duke University, 1940.
- WALTERS, JOHN VERNON, *Associate Professor of Textiles*.
B.S., 1933, M.S., 1952, Clemson Agricultural College.
- WARE, ROBERT EDWARD, *Associate Professor of Entomology and Zoology*.
B.S., Iowa Wesleyan College, 1929; Graduate Work, Iowa State College, Summers, 1931, 1932, 1938, 1940.
- WARNHOFF, EDWARD HERMAN, JR., *Associate Professor of Entomology and Zoology*.
B.S., Clemson Agricultural College, 1946; M.S., Texas A & M College, 1947; Graduate Work, Oklahoma A & M College, 1950-1952.
- WASHINGTON, WILLIAM HAROLD, *Professor of Vocational Education*.
B.S., Clemson Agricultural College, 1920; M.S., Iowa State College, 1922; Graduate Work, Georgia School of Technology, Summer, 1925; George Peabody College, 1932-1933, Summers, 1928, 1929, 1951.
- WATSON, CHARLIE HUGH, *Assistant Professor of English*.
A.B., Wofford College, 1933; A.M., Duke University, 1945.
- WATSON, SAMUEL MCIVER, JR., *Professor of Mechanical Engineering*.
A.B., Elon College, 1936; B.S., 1937, M.S., 1942, North Carolina State College.
- WEBB, WILLIAM EDWARD, *Associate Professor of History and Government*.
A.B., Hampton-Sydney College, 1943; M.A., Duke University, 1947; Ph.D., University of Virginia, 1955.
- WHEELER, RICHARD FERMAN, *Associate Professor of Animal Husbandry*.
B.S., 1941, B.S., 1947, Clemson Agricultural College; M.S., Mississippi State College, 1949; Ph.D., University of Illinois, 1954.
- WHITE, THOMAS ARLINGTON, *Professor of Vocational Education*.
B.S., 1924, M.S., 1929, North Carolina State College; Ph.D., Cornell University, 1933.
- WHITESIDES, JACK CARTER, *Instructor in Agricultural Engineering*.
B.S., Clemson Agricultural College, 1955; Graduate Work, Clemson Agricultural College, 1955.
- WHITNEY, JOHN BARRY, JR., *Professor of Botany*.
B.S., University of Georgia, 1935; M.S., North Carolina State College, 1938; Ph.D., Ohio State University, 1941.
- WHITTEN, WILLIAM CLYDE, JR., *Assistant Professor of Textiles*.
B.S., Clemson Agricultural College, 1947; M.S., Georgia Institute of Technology, 1950.
- WILLIAMS, JACK KENNY, *Professor of History and Government*.
A.B., Emory and Henry College, 1940; M.A., 1947, Ph.D., 1953, Emory University.
- WILLIAMS, WILLIAM BRATTON, *Associate Professor of Weaving and Designing*.
B.S., 1923, M.S., 1950, Clemson Agricultural College.
- WILSON, HAROLD BETTS, *Assistant Professor of Textiles*.
B.S., Clemson Agricultural College, 1941.

- WILSON, HUGH HAYNES, *Associate Professor of Ceramic Engineering.*
B.S., 1948, M.S., 1949, North Carolina State College; Ph.D., Ohio State University, 1954.
- WILSON, MILNER BRADLEY, JR., *Associate Professor of English.*
A.B., Wofford College, 1924; A.M., Columbia University, 1936; Graduate Work, University of North Carolina, Summer, 1954.
- WINTER, JAMES PAUL, *Assistant Professor of English.*
A.B., Marshall College, 1930; M.A., Columbia University, 1932; Graduate Work, Columbia University, 1932-1933, Summers, 1939, 1940, 1950-1955; Tulane University, Summer, 1935; New York University, Summers, 1936, 1938.
- WISE, ROBERT CHARLES, *Assistant Professor of Air Science.*
Captain, United States Air Force; Senior Pilot; B.S., 1951, M.S., 1955, Indiana State Teachers College; Academic Instructors' School, 1955.
- WOOD, KENNETH LEE, *Assistant Professor of Physics.*
B.S., Carson Newman College, 1932; M.S., University of Tennessee, 1934; Graduate Work, Duke University, Summer, 1940.
- WOOD, ROY, *Assistant Professor of Economics.*
B.A., 1943, M.A., 1948, University of Virginia; Graduate Work, University of Virginia, 1947-1948.
- WRAY, CHARLES VICTOR, *Associate Professor of Textiles.*
B.S., Clemson Agricultural College, 1940; M.S., Georgia Institute of Technology, 1954.
- YOUNG, JOSEPH LAURIE, *Assistant Professor of Architecture.*
B.Arch., University of Texas, 1950; M.Arch., Georgia Institute of Technology, 1955.

LIBRARY STAFF

JOHN WALLACE GORDON GOURLAY, B.A., B.L.S., A.M.L.S.—

Director of the Library

SIDELLE BOUKNIGHT ELLIS, B.S., B.S. in L.S.... *Assistant Circulation Librarian*
 JOHN GOODMAN, B.S., B.S. in L.S..... *Assistant Librarian*
 LOIS JONES GOODMAN, B.S..... *Cataloger*
 CORNELIA AYER GRAHAM, B.S..... *Librarian*
 JOHN B. HOWELL, JR., B.A., B.A. in L.S., M.S..... *Assistant Librarian*
 FAYE JULIETTE MITCHELL, A.B..... *Acquisitions Librarian*
 MURIEL GIPSON RUTLEDGE, B.S..... *Science and Technology Librarian*
 MARY ELAINE SCHAAP, A.B..... *Government Documents Librarian*
 MARY CONRAD STEVENSON, A.B..... *Head, Catalog Department*

INSTRUCTIONAL ASSISTANTS *

BARNES, FRANK WILMER, M/Sgt., U. S. Army, *Military Science and Tactics*.
 BARNETTE, VOLNEY THEODORE, JR., B.S., *Chemistry*.
 BILTON, ROBERT LEROY, B.S., *Chemistry*.
 CORBIN, JOHN KENNETH. B.S., *Physics*.
 EASON, H. K., B.S., *Textiles*.
 FLEMING, MILLS LAWRENCE, B.S., *Physics*.
 GILLAND, RICHARD BOYD, M/Sgt., U. S. Army, *Military Science and Tactics*.
 GRAY, VANNIE EUGENE, B.S., *Chemistry*.
 GUY, EDWARD DOUGLAS, JR., B.E.E., *Mathematics*.
 HERBERT, THOMAS JACKSON, JR., B.S., *Chemistry*.
 HOWARD, ANDREW SWOFFORD, B.S., *Physics*.
 KELLER, LEON JEFFERSON, JR., B.S., *Chemistry*.
 LANGDON, CHARLES HENRY, M/Sgt., U. S. Army, *Military Science and Tactics*.
 MORGAN, HARVEY EUGENE, B.S., *Industrial Education*.
 PHELPS, ROY LEE, SFC, U. S. Army, *Military Science and Tactics*.
 POOLE, JAMES CORNELIUS, JR., M/Sgt., U. S. Army, *Military Science and Tactics*.
 ROUTH, WILLIAM EUGENE, B.A., B.S., *Chemistry*.
 SELLERS, EDGAR ELZIE, A.B., *Chemistry*.
 SIMPSON, TROY M., SFC, U. S. Army, *Military Science and Tactics*.
 SMITH, ROBERT REX, *Engineering*.
 SUTTON, WILLIAM, JR., A.B., *Chemistry*.
 TARPLEY, WALLACE ARMELL, B.S., *Entomology and Zoology*.
 TILLEY, DEWITT UMSTEAD, JR., B.S., *Textile Chemistry*.
 ULDRICK, JOHN PAUL, B.C.E., *Engineering*.
 VAZOPOLOS, STEVE, B.S., *Chemistry*.
 WAGES, WILLARD, M/Sgt., U. S. Army, *Military Science and Tactics*.
 WESTENDORFF, CLARENCE GANTT, JR., B.S., *Chemistry*.

* List of Instructional Assistants compiled November 1, 1955.

STANDING COMMITTEES OF THE FACULTY, 1955-1956

ADMISSIONS:

K. N. Vickery, *Chairman*; V. A. Boyd, J. B. Gentry, J. H. Langston, A. D. Lewis, W. L. Mauldin, E. L. Stanley.

CURRICULA:

F. M. Kinard, *Chairman*; C. W. Bolen, H. M. Brown, M. D. Farrar, H. L. Hunter, J. W. Jones, J. Lindsay, R. W. Moorman, J. H. Sams.

ETHICS AND RELIGION:

S. J. L. Crouch, *Chairman*; M. C. Allen, G. R. Cannon, J. R. Cooper, W. T. Cox, P. B. Holtzendorff, Jr., S. J. McFarland, R. L. Oliveros, C. E. Raynal, Jr., E. D. Stockman.

GRADUATE WORK:

F. M. Kinard, *Chairman ex officio*; H. J. Webb, *Vice-Chairman*; L. C. Adams, J. C. Cook, J. H. Hobson, W. A. King, J. E. Miller, W. T. Rainey, Jr., J. K. Williams.

HONORS AND AWARDS:

R. W. Rutledge, *Chairman*; C. Mc. Jones, J. Lindsay, J. M. Long, A. E. McKenna, K. W. Rausch, T. L. Senn, M. B. Wilson, Roy Wood.

KRESS RESEARCH:

H. M. Brown, *Chairman*; G. E. Bair, W. B. S. Boykin, J. G. Dinwiddie, Jr., A. T. Hind, Jr., C. E. Littlejohn, J. E. Shigley, M. A. Wilson, *ex officio*.

LIBRARY:

M. A. Owings, *Chairman*; C. W. Bolen, J. Lindsay, F. B. Schirmer, Jr., J. W. Thurston, J. B. Whitney, Jr., J. W. G. Gourlay, *ex officio*.

SCHEDULE:

J. W. LaGrone, *Chairman*; A. M. Bloss, J. L. Brock, F. I. Brownley, K. E. Carpenter, C. L. Epting, G. Gage, E. A. Gunnin, R. N. Kersey, C. M. McGee, Jr., R. L. Perry, C. A. Reed, E. B. Rogers, I. A. Trively, K. N. Vickery, J. B. Whitney, Jr.

SOCIAL:

J. R. Cooper, *Chairman*; G. E. Bair, D. D. Curtis, G. A. Douglass, R. H. Doyle, N. N. Gray, J. C. Green, P. B. Holtzendorff, D. G. Hughes, J. T. Lazar, G. C. Means, J. F. Miles, R. F. Nowack, Eugene Park, K. W. Rausch, Walter Slivka, L. R. Tull, J. S. Walker, W. B. Williams.

STUDENT AID:

D. G. Hughes, *Chairman*; A. J. Brown, J. L. Edwards, Eugene Park, J. M. Stepp, W. C. Whitten.

ADMINISTRATION OF STUDENT AFFAIRS

WALTER THOMPSON COX, B.S.....*Dean of Student Affairs*

REGISTRAR'S OFFICE

KENNETH NOTLEY VICKERY, B.S.....*Registrar*

REGINALD JUSTIN BERRY, B.S.—

Assistant to the Registrar and IBM Consultant and Supervisor

HELEN COKER, A.B.....*Recorder*

ROBERT BLANDING JOHNSON, B.S.....*Admissions Counselor*

STUDENT CENTER AND Y. M. C. A.

PRESTON BROOKS HOLTZENDORFF, JR., LL.B....*General Secretary, Y. M. C. A.*

JOHN ROY COOPER, M.A.—

Director of Student Center and Associate Y. M. C. A. Secretary

CHAPLAINS

MARION CARROLL ALLEN, B.A. B.D.....*Pastor, Baptist Church*

STEPHEN J. MCFARLAND, C.S.P.....*Pastor, Catholic Church*

ROBERT LOVALL OLIVEROS, B.A. B.D.....*Rector, Episcopal Church*

ENOCH D. STOCKMAN, A.B., B.D.....*Pastor, Lutheran Church*

GEORGE RUSSELL CANNON, A.B., B.D.....*Pastor, Methodist Church*

CHARLES EDWARD RAYNAL, JR., A.B., B.D.....*Pastor, Presbyterian Church*

SYDNEY J. L. CROUCH, B.D., Th.D.—

Chairman, Committee on Ethics and Religion

Y. M. C. A. ADVISORY BOARD

B. D. CLOANINGER, *Chairman*; JOSEPH LINDSAY, *Vice-Chairman*; R. F. POOLE, *President, ex officio*; G. H. AULL, H. M. BROWN, W. T. COX, S. B. EARLE, B. E. GOODALE, F. M. KINARD, J. C. LITTLEJOHN, S. M. MARTIN, T. A. FOLGER, J. A. HENRY, R. F. KOLB, T. B. YOUNG, *Trustee Member*; B. J. ARNOLD, *President of Y. M. C. A., ex officio*; P. B. HOLTZENDORFF, JR., *General Secretary of Y. M. C. A., ex officio*

STUDENT AID AND PLACEMENT

DAVIS GREGORY HUGHES, M.Ed.....*Director of Student Aid and Placement*

ATHLETIC STAFF

FRANK JAMES HOWARD, B.S.....*Director of Athletics and Head Coach*

ROBERT MORGAN JONES, B.S.....*Assistant Coach*

JAMES BANKS MCFADDEN, B.S.....*Assistant Coach*

COVINGTON McMILLAN, M.S.....*Assistant Coach*

ABSALOM WILLIS NORMAN, M.A.....*Assistant Coach*

ROBERT WILLIAM SMITH, B.S.....*Assistant Coach*

JAMES DONALD WADE, B.S.....*Assistant Coach*

CARL WILSON WISE, A.B.....*Assistant Coach*

EUGENE PERRIN WILLIMON, B.S.....*Executive Secretary*

ROBERT COLE BRADLEY, B.S.....*Acting Athletic Publicity Director*

ATHLETIC COUNCIL

R. R. RITCHIE, *Chairman*; GASTON GAGE, J. D. LANE, R. W. MOORMAN, T. W. MORGAN, G. H. HILL, *Budget Officer, ex officio*; K. N. VICKERY, *Registrar, ex officio*; GOODE BRYAN, *Alumni Member*; and R. H. FIKE, *Alumni Member*

STUDENT HEALTH SERVICE

LEE WATSON MILFORD, M.D.....*Director of Student Health Service*

MYRTLE DEAN.....*X-Ray and Laboratory Technician*

IRENE JULIAN, R.N.....*Director of Nurses*

GLADYS MITCHELL, R.N.....*Clinical Supervisor*

ADMINISTRATION OF BUSINESS AND FINANCIAL AFFAIRS

MELFORD A. WILSON, B.S. in Commerce..... *Comptroller*
ANDREW JOSEPH BROWN, B.S..... *Staff Assistant to Comptroller*
GRAHAM HAMILTON HILL..... *Budget Officer*
KENNY RIXIE HELTON..... *Internal Auditor*
JOHN WILLIAM SHINN..... *Methods and Procedures Supervisor*

ACCOUNTING DIVISION

TRESCOTT NEWTON HINTON, B.A..... *Chief Accountant*
JOSEPH SHELOR WALKER, B.S..... *Bursar*

PERSONNEL DIVISION

DOUGLAS GRANT MAC LEAN, B.A., M.P.A..... *Director of Personnel*

PHYSICAL PLANT DIVISION

DAVID JOSEPH WATSON, B.S..... *Director of Physical Plant*
JAMES CLEVELAND CAREY, JR., B.S..... *Superintendent of Grounds*
WILLIAM ERNEST MCGUIRE..... *Superintendent of Buildings*
EARL H. SWAIN, B.S..... *Superintendent of Planning and Engineering*

PURCHASING DIVISION

EARL SPENCER LIBERTY, B.A..... *Director of Purchasing*

AUXILIARY ENTERPRISES

HENRY HUGHES HILL, JR., B.S..... *Director of Auxiliary Enterprises*
FRANK DILLARD..... *Manager, Laundry*
LUTHER J. FIELDS, B.S..... *Manager, Student Food Service*
HENRY WORDSWORTH RIMMER..... *Dormitory Manager*

THE CLEMSON HOUSE HOTEL

FRED LEONARD ZINK, JR..... *Manager, The Clemson House*

ADMINISTRATIVE COUNCIL

DR. R. F. POOLE, *President*; M. A. WILSON, *Comptroller*; W. T. COX, G. H. HILL, H. H. HILL, T. N. HINTON, F. M. KINARD, E. S. LIBERTY, D. G. MAC LEAN, J. W. SHINN, D. J. WATSON, and G. E. METZ, *Secretary*

ADMINISTRATION OF DEVELOPMENT ACTIVITIES

PUBLIC AND ALUMNI RELATIONS

JOSEPH EDGAR SHERMAN, B.S. *Director of Public and Alumni Relations*
 JOHN WIETERS CALIFF, JR., B.S. *Acting Editor, College Publications*
 RAY GEORGE DAVIS, B.S. *Editor, College News Bureau*

COMMITTEE ON PUBLICATIONS AND RADIO

J. D. LANE, *Chairman*; J. W. CALIFF, JR., *Secretary*; W. T. COX, J. M.
 ELEAZER, J. R. MATTISON, J. E. SHERMAN, S. C. STRIBLING

OFFICERS CLEMSON ALUMNI CORPORATION, 1955-1956

President

Frank J. Jervey, '14 Clemson, S. C.

First Vice-President

J. A. Milling, '27 Indianapolis, Ind.

Second Vice-President

C. C. Coward, '19 Baltimore, Md.

Secretary-Treasurer

Joseph E. Sherman '34 Clemson, S. C.

Assistant Treasurer

A. J. Brown, '12 Clemson, S. C.

Board of Directors

<i>Districts</i>	<i>Term Expires</i>	<i>Name</i>	<i>Address</i>
1	—1957—	F. B. Schirmer, '34	Clemson, S. C.
2	—1958—	J. J. Norton, '25	Gaffney, S. C.
3	—1956—	W. J. Neely, '32	Rock Hill, S. C.
4	—1957—	W. G. Yarborough, '34	Edgefield, S. C.
5	—1958—	H. W. Asbill, '30	Columbia, S. C.
6	—1956—	J. R. White, '42	Walterboro, S. C.
7	—1957—	Percy Miley, '27	Charleston, S. C.
8	—1958—	G. G. Thrower, '19	Bennettsville, S. C.
9	—1956—	J. A. Milling, '27	Indianapolis, Ind.
10	—1957—	C. C. Coward, '19	Baltimore, Md.
11	—1958—	J. H. Yarborough, '30	Miami, Fla.
12	—1956—	F. H. Colbert, '25	Dallas, Texas
13	—1957—	W. L. Kinard, '44P ('47)	Atlanta, Ga.
14	—1958—	F. V. Smith, '25	Charlotte, N. C.
15	—1956—	C. L. Kehew, '25	Waban, Mass.
At Large—1957—		D. M. Camp, '47	Bakersfield, Calif.
At Large—1958—		B. L. Hewitt, '30	Charleston, S. C.
At Large—1956—		F. J. Jervey, '14	Clemson, S. C.

THE
CLEMSON
AGRICULTURAL
COLLEGE
RECORD

PART II

Information

PART II—Information

GENERAL INFORMATION

Clemson is a land-grant college, a state institution, and one of the A. and M. colleges which emphasizes agriculture and mechanical industries. Clemson is fully accredited by the Southern Association of Colleges and Secondary Schools.

The twenty-nine curriculums under the Schools of Agriculture, Arts and Sciences, Engineering, and Textiles form a background of training for the hundreds of occupations in which Clemson graduates engage. In addition to the training for a specific occupation, each curriculum is broadened to include fundamental training in the occupational area as well as the worthwhile values of general education. Although the College is organized on the university plan of various schools, it retains its entity through the inter-relationships of schools and departments in providing a well-balanced educational program.

The enrollment of Clemson has grown from 446 students at the opening of the college in 1893 to a pre-war peak of 2,381 and a post-war peak of 3,360 for the first semester, 1949-1950. Since the opening of the college 33,866 students have attended Clemson and of this number 11,980 have been awarded the bachelor's degree.

ADMINISTRATIVE ORGANIZATION

The government of the College is vested in a Board of thirteen members, including six elected by the Legislature and seven 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 and Dean of the Graduate School
 - A. School of Agriculture
 - B. School of Arts and Sciences
 - C. School of Engineering
 - D. School of Textiles
 - E. The Graduate School
 - F. The College Library

- II. Dean of Student Affairs
 - A. The Registrar's Office
 - B. Student Center and Y. M. C. A.
 - C. Student Aid and Placement
 - D. Athletic Department
 - E. Student Health Service
- 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 and Sponsored Research
 - C. Fund Development

REQUIREMENTS FOR ADMISSION

Entrance Requirements. The 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. Of the units presented for admission it is suggested, though not required, that four units be in English, at least two in algebra and one in geometry.

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

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

(2) Satisfactory scores on the 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 entrance examination and who meet the following requirements may qualify for entrance with advanced standing.

Work that has been completed in other colleges 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 one regular session in the College before he is eligible to apply for a degree.

Application Forms. Forms to be used in applying for admission to the College as well as application forms for the entrance examination may be obtained by writing the Registrar, Clemson College, Clemson, South Carolina.

Entrance Examinations. All new undergraduate candidates for admission as beginning freshmen, and transfer candidates with previous college attendance, are required to stand an entrance examination. Applications for the examination must be made to the College to which the applicant is applying and the ticket of admission issued by that institution. The examination, however, may be taken at Clemson, The University of South Carolina, Winthrop College or Wofford College. Residents of other states who find it more convenient to do so may take the College Board Scholastic Aptitude Test. This test is administered five times each year in numerous centers and locations over the nation and foreign countries by the College Entrance Examination Board.

Both examinations will require approximately three hours to administer and are essentially alike, drawing broadly from the student's educational background without direct dependence on any one course.

Information and application forms for the entrance examination may be obtained by writing the Registrar's Office, Clemson College, Clemson, South Carolina. Information concerning the College Entrance Examination Board Test may be obtained by writing the College Entrance Examination Board, Box 592, Princeton, New Jersey.

Placement Tests. The placement tests required of all students, consist of examinations on basic information in mathematics and English. The purpose in giving the tests is to determine which students are in need of review courses in mathematics and English before attempting college courses in these important subjects. 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 place-

ment test. Such students may begin taking their other freshman subjects, but will postpone freshman mathematics, English, or both, until after they complete satisfactorily the review course or courses required. All new students will be required to take the placement tests, but those who have previously completed college courses in mathematics and English will not be required to take the review courses in these subjects.

Matriculation. Students upon arrival at the College at the opening of the session must report at once to the Registrar's Office. 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.

EDUCATIONAL BENEFITS FOR VETERANS

Public Law 550. Eligible veterans who have served in the active service in the Armed Forces for ninety 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 thirty-six 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 \$822.60 to the college for room, board, laundry, tuition and all fees. A South Carolina veteran living off the campus or in a housing unit will make during 1956-1957, two payments of \$129.40

to the college for tuition and fees. These payments are due according to the schedule of payments on page 38 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 courses in English and mathematics must carry a minimum of 12 semester credit hours in addition to the remedial course or courses in order to qualify for full benefits.

Public Laws 16, 346 and 894. For veterans qualified for benefits under Public Law 16, 346 or 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 barracks at Clemson.

SELECTIVE SERVICE REGULATIONS

Registration. For the benefit of students who become eighteen years of age during the school year, provision has been made for such students to register for selective service in the Registrar's Office 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 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 deferment by attaining the required score of 70 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. 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 Tuition and Fees. 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 during a semester of five weeks or less shall be made on the following basis:

Two weeks or less	20%
More than two but not more than three weeks	40%
More than three but not more than four weeks	60%
More than four but not more than five weeks	80%
More than five weeks	100%

Refund of Living Expenses. Unused portions of paid living expenses during a quarter shall be refunded on a pro rata basis, holidays excepted. However, no refunds shall be due if the unused period in the quarter is two weeks or less. The beginning date of the refund period shall be determined by the Dean of Student Affairs upon written request from the student. The Dean of Stu-

dent Affairs shall approve all living status changes and no reduction of charges shall be made for late matriculation.

Non-Resident Students. An out-of-state student shall pay an additional tuition charge established for non-resident students. The bona fide residence of the parent or legal guardian determines the residence of a student who is a minor. The status of a student who is of age will be determined as resident or non-resident by the Registrar on the basis of submitted evidence. No change of resident status shall become effective until the beginning of a semester following approval of the change by the Registrar.

Schedule of Payments. The College reserves the right to adjust charges to current costs. The 1956-1957 charges for regular full-time students for tuition, fees and living expenses, including board, room and laundry, are shown below:

	<i>South Carolina Student</i>	<i>Non-Resident Student</i>
<i>First Semester</i>		
First Payment:		
Tuition and Fees (Semester) . . .	\$ 129.40	\$ 229.40
Living Expenses ($\frac{1}{2}$ Semester) . .	140.95	140.95
	<hr/>	<hr/>
Due at Entrance	\$ 270.35	\$ 370.35
Second Payment:		
Living Expenses due Nov. 10 . . .	\$ 140.95	\$ 140.95
	<hr/>	<hr/>
<i>Second Semester</i>	<i>South Carolina Student</i>	<i>Non-Resident Student</i>
First Payment:		
Tuition and Fees (Semester) . . .	\$ 129.40	\$ 229.40
Living Expenses ($\frac{1}{2}$ Semester) . .	140.95	140.95
	<hr/>	<hr/>
Due at Entrance	\$ 270.35	\$ 370.35
Second Payment:		
Living Expenses due April 1 . . .	\$ 140.95	\$ 140.95
	<hr/>	<hr/>
Total for Year	\$ 822.60	\$1,022.60

Uniforms. Students participating in the ROTC program at Clemson are required to purchase or have in their possession the prescribed uniform garments. Students enrolled in the basic course of the ROTC (freshmen and sophomores) wear a distinctive gray uniform. A minimum uniform will cost a new student entering the basic course approximately \$50.00. Students entering the advanced

course of the ROTC (juniors and seniors) will wear an officer's uniform for the branch of service in which he is enrolled. The minimum uniform for a student entering the advanced course will cost approximately \$100.00. After graduation this uniform can be worn while on active military duty. Serviceable uniforms which will last the student throughout the semester may be accepted by the Professor of Air or Military Science in lieu of new garments. The garments are made to measurements and no garment will be ordered unless paid for in advance. Parents are advised that those students who are successful in entering ROTC receive from the United States Government a cash payment, near the end of the session, uniform commutation. The present rate of commutation is \$25.00 each for the freshman and sophomore years and \$50.00 each for the junior and senior years.

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 thirty dollars. Students taking drawing must in addition purchase drawing instruments and equipment which cost approximately forty-two dollars.

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

The College will not be liable for lost or damaged laundry unless reported within two days after the date upon which the laundry was due to be delivered, and then not more than the actual depreciated value of such articles as have been lost or damaged.

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 young man. 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 him and his parents.

Transcripts. Official transcripts of scholastic records are issued on request. One transcript is furnished free; additional copies are issued for one dollar each. Remittances for transcripts should be

made payable to the Clemson Agricultural College, but should accompany transcript requests and should be mailed to the Registrar.

STUDENT AID AND PLACEMENT

The office of Student Aid and Placement coordinates financial assistance and placement services at the College. Prospective employers make arrangements concerning trips to interview students through this office. Correspondence pertaining to job openings and employment of former or current students should be addressed to the Director of Student Aid and Placement.

The College is in need of loan and scholarship funds for worthy students. Any person who is interested in establishing such a fund is encouraged to communicate with the Board of Trustees, the Alumni Foundation, the President of the College, or the Director of Student Aid and Placement. Funds for deserving students are often available from various civic and educational clubs, interested companies and non-profit organizations. Such funds may be outright grants, or loans with low interest rates during college attendance.

Financial assistance for those attending Clemson consists of part-time work, loans, scholarships, and participation in ROTC, Reserve, National Guard, or veterans benefit programs. Student wives desiring to secure employment with the College are encouraged to contact the Personnel Director, Clemson Agricultural College, Clemson, S. C. Many students help to finance their education by alternating periods at College and on jobs in cooperating establishments near their homes.

Upon entering college, students should plan to spend most of their time on the campus preparing lessons, attending classes, and participating in enriching extra-curricular activities. The College attempts to assist as many students as possible, with its limited funds, giving first consideration to the most deserving cases. Unless otherwise indicated in the following sections, those who must secure financial assistance through loans, part-time work, or scholarships should contact the Director of Student Aid and Placement.

LOAN FUNDS

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. Application should be made to J. M. Eleazer, Chairman, Camp Foundation Fund, Clemson Agricultural College, Clemson, S. C.

George Cherry Foundation. Mrs. Mary Cherry Doyle has provided the sum of \$1,700.00 to aid worthy and needy upper-classmen from Oconee County and the adjoining Pendleton area.

Clemson Student Loan Association Fund. A number of interested teachers, officers, alumni and friends of the College have provided the sum of \$3,500.00 to assist worthy students.

Daniel Memorial Loan Fund. Income from \$14,000.00 given by officers of the corporation, in memory of James Fleming Daniel and Fred Adams Daniel, is loaned to deserving students.

William Wilson Finley Loan Fund. The sum of \$1,900.00 has been provided as a loan fund to students living in counties traversed by the Southern or Blue Ridge Railways.

Ben and Kitty Gossett Fund. Income from \$12,000.00 is available for loans, primarily to Clemson students whose families are employed in the textile industry of South Carolina.

David Jennings Fund. Income from \$10,000.00 provided by David Jennings ('02), in memory of his parents and brother, is used to aid worthy and deserving students, with preference given to textile majors.

The S. R. Rhodes Loan Fund. A fund provided in honor of Mr. Rhodes by Engineering alumni to assist worthy, needy junior or senior Electrical Engineering students. Application should be made to the Head of the Department of Electrical Engineering.

Wade Stackhouse Loan Fund. Income from \$26,000.00 given by Dr. Wade Stackhouse, in memory of his father, is loaned for graduate study to ambitious students who give promise of becoming research leaders in the Biological Sciences.

GRANTS AVAILABLE TO ENTERING FRESHMEN

Sears-Roebuck Agricultural Scholarships. Ten \$200.00 scholarships are available for entering freshmen in the School of Agriculture, with an additional \$250.00 sophomore award to the student making the highest scholastic average as a freshman Sears-Roebuck scholar. Application for a freshman scholarship should be made not later than May 1, to the Agricultural Scholarship Committee, School of Agriculture, Clemson, S. C.

George E. and Leila Giles Singleton Scholarship. Income from a fund donated by Mr. G. H. Singleton ('19) provides a \$300.00 scholarship for a farm boy majoring in Agriculture, with preference given to applicants from Oconee, Pickens, or Anderson counties, in that order. The award is for an entering freshman, and may be renewed for an additional year. Application should be made not later than May 1, to the Agricultural Scholarship Committee, School of Agriculture, Clemson, S. C.

Smith-Douglas Agricultural Scholarships. Several \$750.00 scholarships are available for entering freshmen in the School of Agriculture, to be paid to the recipients during four years of satisfactory progress in college. Applicants must be residents of one of the following South Carolina counties: Clarendon, Darlington, Dillon, Florence, Georgetown, Horry, Lee, Marion, Marlboro, Sumter or Williamsburg. Application should be made not later than May 1, to the Agricultural Scholarship Committee, School of Agriculture, Clemson, S. C.

GRANTS BY COLLEGE COMMITTEES FOR ENROLLED STUDENTS

American Enka Scholarship. An annual award of \$400.00 is made to a rising junior majoring in Textiles. Selection is based on need, ability and evidence of good character. Application should be made during March to the Textile Scholarship Committee, School of Textiles, Clemson, S. C.

American Viscose Scholarship. An annual award of \$500.00 is made to a rising junior or senior majoring in Textile Chemistry or Textile Engineering. Application should be made during March to the Textile Scholarship Committee, School of Textiles, Clemson, S. C.

Blackmon-Uhler Scholarship. An annual award of \$500.00 is made to a rising junior majoring in Textile Chemistry and Dyeing, and may be renewed for the senior year if satisfactory progress is made. Selection is based on need, ability and evidence of good character. Application should be made during March to the Textile Scholarship Committee, School of Textiles, Clemson, S. C.

Burlington Industries Foundation Scholarship. An annual award of \$500.00 is made to a rising junior majoring in Engineering or Textiles, and may be renewed for the senior year if satisfactory progress is made. Selection is based on leadership, scholarship and financial need. Application should be made during March.

General Electric Engineering Award. An annual regional award is made to a rising senior enrolled in specified curriculums in Engineering. Each included institution recommends an entry for the regional award. Selection is based on outstanding scholastic work and evidence of leadership qualities. Application should be made in March to the Engineering Scholarship Committee, School of Engineering, Clemson, S. C.

Greenville Rotary Club Scholarship. An award of \$375.00 is provided in 1955-1956 for a worthy student attending Clemson, with preference to a resident of Greenville County or South Carolina, in that order. The recipient is selected by the College Scholarship Committee.

V. B. Higgins Award. Income from a considerable fund given by Mr. Higgins provides one or more annual scholarships for undergraduate and graduate students majoring in Engineering. Selection is based on scholastic ability and financial need. Application should be made in March to the Engineering Scholarship Committee, School of Engineering, Clemson, S. C.

Interchemical Corporation Scholarship. Two \$250.00 awards are made annually to rising juniors in Textiles, Chemistry, or Physics (in order of preference), and may be renewed for the senior year if satisfactory progress is made. Selection is based on need, ability, leadership potential and evidence of good character. Application is to be made in March.

Keever Starch Scholarship. An annual award of \$400.00 is made to a worthy rising sophomore majoring in Textiles. Application should be made in March to the Textile Scholarship Committee, School of Textiles, Clemson, S. C.

Owens-Corning Fiberglas Scholarship. An annual award of \$600.00 is made to an outstanding rising junior and rising senior majoring in Engineering or Textiles. Selection is based on academic standing and leadership ability. Application should be made in March.

Schlumberger Collegiate Award. An annual scholarship of \$500.00 is given a rising junior or senior majoring in specified curriculums in Engineering or Industrial Physics. Selection is based on outstanding scholastic work and leadership ability. Application should be made in March.

Westinghouse Achievement Scholarship. An annual award of \$500.00 is made to a rising senior majoring in specified curriculums

in Engineering. Selection is based on outstanding scholastic work and evidence of leadership ability. Application should be made in March to the Engineering Scholarship Committee, School of Engineering, Clemson, S. C.

FINANCIAL ASSISTANCE FOR GRADUATE STUDENTS

Recipients of the following grants for advanced study and research are selected by the departments concerned. In addition, there are certain funds available as assistantships for a number of students enrolled in the Graduate School. Further information may be obtained from the department in which the student plans to do his major work.

Alexander P. and Lydia Anderson Fellowship. Income from \$12,500.00 donated by Mr. and Mrs. Anderson, provides one or more awards for graduate study in the Biological Sciences, including Bacteriology and Entomology.

Celanese Fellowship. An award of \$1,500.00 plus tuition, fees and research materials is made annually to an outstanding student for graduate research in Textile Chemistry.

Dow Corning Fellowship. An award of \$1,500.00 plus tuition, fees and research supplies is made annually to an outstanding student for graduate research in Textile Chemistry.

The Edward Orton, Jr. Fellowship. An award of \$1,200.00 is made annually to an outstanding student for graduate research in Ceramic Engineering.

Warwick Chemical Foundation. Income from \$3,400.00, provided in memory of Manfred Caranci, may be awarded to enable worthy students to pursue graduate studies or research in Chemistry and to promote Chemical Education.

Zonolite Fellowship. An award of \$1,500.00 is made annually to an outstanding graduate student for fundamental research in Ceramic Engineering.

GRANTS MADE BY INDUSTRIES AND ORGANIZATIONS TO CLEMSON STUDENTS

A. Q. Mills, Incorporated. The company makes an annual award of \$500.00 to a Timmons ville High School student who meets certain requirements.

Agricultural Society of South Carolina. The society makes a full scholarship award annually to a deserving freshman attending Clemson from the Charleston area.

Anderson Rotary Club Scholarship. The club has provided an award in 1955-1956 for a deserving Clemson student from Anderson County.

Atlantic Cotton Association. The association provides an annual award of \$500.00 during the first two years the winner attends a State Agricultural College and earns satisfactory grades. 4-H Club members who are fifteen years old and enter the major five-acre cotton contest may apply to their county agent.

James F. Byrnes Foundation. The foundation awards a number of \$500.00 scholarships to deserving college students who have one or both parents deceased.

Clifton Company Foundation. The company selects two college students annually from the Clifton Community for \$200.00 awards, if they meet certain requirements.

Esso Standard Oil Company. The company provides an annual 4-H Club award of \$400.00 during four years, if the winner attends Clemson and majors in Agriculture with satisfactory grades. Selection of one applicant by each county agent is based on high school record and outstanding activities.

Hilton-Davis Chemical Company. The company awards a worthy student majoring in Textile Chemistry at Clemson \$400.00, which may be renewed if the recipient earns satisfactory grades.

Hillsboro Lodge 308 A.F.M. The lodge awards \$500.00 annually to a worthy student from the Lake View area of South Carolina who meets certain requirements.

Pauline Hanckel Dairy Scholarship. The Ladies Auxiliary of the South Carolina Dairy Association has provided an entering freshman for 1955-1956 a scholarship of \$800.00 during four years of college, if he majors in Dairying and makes satisfactory grades.

Edgar and Emily Hesselein Scholarship. The company makes two \$600.00 awards to deserving students who meet certain requirements, which may be renewed by Hesselein and Company.

Inman-Riverdale Foundation. The company awards a number of \$600.00 scholarships annually, which are renewable if student earns satisfactory grades and meets certain requirements.

LaFrance Industries, Incorporated. The company awards two full scholarships to students attending Clemson who meet certain requirements.

Leon Lowenstein Foundation. The company awards a number of \$500.00 scholarships annually to students attending Clemson, who meet certain requirements.

Marion County Department of Education. The department awards two \$200.00 scholarships annually to worthy students who meet certain requirements.

Norris Memorial Scholarship. The company awards \$500 annually to a worthy student who meets certain requirements of the Norris Cotton Mill.

Post and Courier Foundation. The publisher awards \$250.00 annually to a deserving student from the Charleston area who meets certain requirements of the company.

Charles H. Stone Scholarship. The association awards \$250.00 annually to a junior or senior majoring in Textile Chemistry, who meets certain requirements of the American Association of Textile Colorists and Chemists.

Textron Corporation. The corporation awards a number of \$500.00 scholarships annually to students meeting certain requirements.

HONORS AND AWARDS

Agricultural Certificates of Merit. Beginning with the session of 1914-1915 certificates of merit have at times been awarded to farmers in South Carolina who have rendered distinguished service in the agricultural development of the State.

Air Force Association Medal. The Air Force Association of Washington, D. C., awards this medal annually to the first year advanced Air Force cadet who has shown outstanding aptitude for both academic and military pursuits. In 1955 this medal was awarded to Ray M. Buck of Mt. Pleasant, South Carolina.

Alpha Chi Sigma Award. Awarded to the sophomore majoring in Chemistry, Textile Chemistry, or Chemical Engineering who maintained the highest scholastic record in chemistry during his first two semesters of work. In 1955 this award was presented to William Ray Wactor of Orangeburg, South Carolina.

Alpha Tau Alpha Scholarship Medal. Awarded to the senior in Agricultural Education having the highest scholastic record. In 1955 this award was presented to David Allen Inabinet of St. Matthews, South Carolina.

Alpha Zeta Award. An annual award given to the sophomore having the highest scholastic record while majoring in the School of Agriculture. In 1955 this award was given to David Frederick Borchert of Greenville, South Carolina.

American Association of Textile Chemists and Colorists Award. This award for the best work done in Textile Chemistry and Dye-

ing by a member of the graduating class was given in 1955 to Joe Franklin Mattison of Belton, South Carolina.

The American Association of Textile Technologists Award. Awarded to the graduate having the highest scholarship and all-round qualifications for success in the textile industry. In 1955 this award was given to Allston Thomas Mitchell of Spartanburg, South Carolina.

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

American Institute of Chemical Engineers Award. Each year, the American Institute of Chemical Engineers sponsors an award consisting of an engraved certificate, a gold emblem of student membership in the national organization, remission of undergraduate dues, and subscription to the "Chemical Engineering Progress" to the junior student, majoring in Chemical Engineering, who has attained the highest scholastic standing through the sophomore year. In 1955 this award was presented to John Baecher Butt of Greensboro, North Carolina.

American Institute of Electrical Engineering Junior Scholastic Award. Awarded to the second semester junior or the first semester senior in Electrical Engineering having the highest scholastic record. In 1955 this award was presented to Robert Rex Smith of Brevard, North Carolina.

American Society of Civil Engineers Membership Award. Awarded each year by the South Carolina Section of the American Society of Civil Engineers to the outstanding graduating senior in Civil Engineering. In 1955 this award was presented to Henry Reynolds Coleman of Abbeville, South Carolina.

The 75th Anniversary A.S.M.E. Medal. Awarded to a senior in Mechanical Engineering for his outstanding service in the School of Engineering. This award was given to Walter Hazel Hendrix of Heath Springs, South Carolina.

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. In 1955 certificates of merit were awarded to Richard Dillard Mitchell, a senior in architecture, of Greenville, South Carolina and John Carroll Cox, a senior in architectural engineering, of Greenville, South Carolina.

Armed Forces Communications and Electronics Association Medal. The Armed Forces Communications Association of Washington, D. C., sponsors annually an award to the outstanding sophomore, junior and senior student taking military training with communications or electronics as the major courses. In 1955 awards were given to Elton M. Calder of Savannah, Georgia as the outstanding Army ROTC senior pursuing Electrical Engineering as his major course, and Thomas C. Drew of Gaffney, South Carolina as the outstanding Air Force ROTC senior pursuing Electrical Engineering as his major course.

The Armor Medal. A medal awarded to the student selected for outstanding scholastic achievement in Armor Second Year Advanced ROTC. In 1955 this award was given to John R. Underwood of West Union, South Carolina.

Armored Association Scroll. The Armor Association of Washington, D. C., awards this Scroll annually to the Senior Armor Cadet who has shown outstanding aptitude for both academic and military pursuits. In 1955 this Scroll was awarded to John R. Underwood of West Union, South Carolina.

Arnold R. Boyd English Honor Key. Arnold R. Boyd, Class of 1914, donates this Honor Key annually to the student in the graduating class who makes the best record in English during his college course. In 1955 this award was given to James Travis Greene of Augusta, Georgia.

Association of the United States Army Infantry ROTC Medals. Two awards given annually. One award to the outstanding Infantry Senior, and one award to the outstanding Army ROTC senior. In 1955 the awards went to Charles H. Ferguson of Great Falls, South Carolina, as the outstanding Infantry Senior, and to David Morris of Shelby, North Carolina, as the outstanding Army ROTC Senior.

The Beta Sigma Chi Award. An award of \$100 to be given to the winner of a competitive examination among students from the vicinity of Charleston. In 1955 this award was given to Guy E. Sabin of Charleston, South Carolina.

Borden Agricultural Scholarship. The Borden Company Foundation awards annually the sum of \$300.00 to the eligible senior achieving the highest average grade on all college work preceding the senior year. To be eligible for this award, the student must have included in his curriculum two or more Dairy subjects. In 1955, this award was given to Elbridge Juetta Wright, Jr. of Belton, South Carolina.

The Chemical Rubber Company Achievement Award. An award given by the Chemical Rubber Company to the student not majoring in Chemistry, Textile Chemistry or Chemical Engineering who made the highest grade in the first semester course in Chemistry. In 1955 this award was given to Stanley White Winchester of Fort Mill, South Carolina, who was major in Electrical Engineering.

Chicago Tribune Gold Medal Award. Awarded annually to the two Senior AFROTC cadets who are most outstanding in military training, academic achievement and motivation for flying training. The 1956 presentation will be the initial award at Clemson College.

Chicago Tribune Silver Medal Award. Awarded annually to the two Junior AFROTC cadets who are most outstanding in military training, academic achievement and motivation for flying training. The 1956 presentation will be the initial award at Clemson College.

Class of 1902 Awards. In recognition of the distinguished teaching services of three professors who were on the College faculty at the time the Class of 1902 was at Clemson, and in memory of those of the class who have passed on, the members of the Class of 1902 have deposited with the Clemson College Foundation the three following funds of \$2,000.00 each, the income from these funds to be awarded annually.

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. In 1955 this award was given to Charles Edward Gray of Spartanburg, South Carolina.

The Rudolph Edward Lee award, to a worthy undergraduate student in Architecture, selected upon the recommendation of the faculty of the Department of Architecture after consideration of the student's grades, extra-curricular activities, and those qualities that go toward making a successful professional architect. In 1955 this award was given to Thomas Edwin Cunningham of Greenville, South Carolina.

The Samuel Maner Martin award, to a worthy undergraduate student taking mathematics as a major subject was awarded in 1955 to Melvin Eugene Barnette of Pendleton, South Carolina.

Thomas G. Clemson Award. Established by the Pendleton Farmers Society to recognize the senior showing the most proficiency in agriculture. In 1955 this prize, a gold cup, was presented to Bryan Legare Walpole, Jr. of Johns Island, South Carolina.

Howard Carlisle Copeland Memorial Fund. 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. In 1955 an award of \$35.00 was made to Augustus Maynard Sharkey of Clemson, South Carolina.

Convair Cadet Award. Awarded annually to the most outstanding sophomore student of the basic AFROTC course who is qualified and motivated for flying training. This award was presented to Hansford T. Johnson of Aiken, South Carolina in 1955.

Virginia Dare Award. An award of \$25.00 given annually by the Virginia Dare Extract Company, Incorporated, to the senior majoring in Dairying and having the highest grade in Dairy 402, Dairy Manufactures. In 1955 this award was given to Benjamin Stinson Wiggins of Hopkins, South Carolina.

Danforth Fellowships. The Danforth Foundation of St. Louis awards fellowships each year to two agricultural students. One of these is given to an outstanding member of the junior class majoring in either Agricultural Economics, Animal Husbandry, Dairying, Poultry Husbandry, or Vocational Agricultural Education. The award amounts to \$195.00 and provides expenses incident to the attendance of the recipient at a two-weeks summer short course for training in salesmanship at the laboratories of the Ralston Purina Company in St. Louis, and also for a two-weeks stay at the American Youth Foundation Leadership Training Camp at Shelby, Michigan. The fellowship for 1955 was awarded to Richard Furman Elliott, Jr., of Rimini, South Carolina, a junior in Animal Husbandry. The second Danforth Fellowship amounting to \$50.00 is awarded to an outstanding freshman in the School of Agriculture. It provides for a two-weeks stay at the Leadership Camp at Shelby, Michigan—the same camp to which the recipient of the Junior award goes. This award for 1955 was received by George Eugene Stembridge, Ellijay, Georgia.

Samuel B. Earle Award. An award established by Clemson Alumni in honor of Dean Samuel B. Earle who ended forty-eight years of service to Clemson College in July, 1950, given annually to an outstanding senior in the School of Engineering. In 1955 this award was presented to Walter Hazel Hendrix of Heath Springs, South Carolina.

Society of American Military Engineers Award. The Society of Military Engineers of Washington, D. C., sponsors annually awards to the outstanding cadets in ROTC majoring in Engineering—one

for Second Year Advanced and one for First Year Advanced ROTC. In 1955 the following awards were made: David Morris of Shelby, North Carolina as the outstanding Second Year Advanced ROTC Student and to Barton D. Pattie as the outstanding First Year Advanced Student in ROTC.

The General Electric Professors' Conference Association Scholarship. An award of \$500.00 to be given to a rising senior in Mechanical Engineering in recognition of his outstanding record and achievements. In 1955 this award was given to John Baecher Butt of Greensboro, North Carolina.

The Institute of Textile Technology Fellowship. An award of \$1,125.00 given to an outstanding graduate in the School of Textiles to be used for further work at the Institute of Textile Technology.

James Lynah Merit Awards. Income for these 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.

In 1955 recipients of \$50.00 each were: The Charles Manning Furman prize in English to William Edwin Myrick, Jr of Ulmers, South Carolina. The Mark Bernard Hardin prize in Chemistry was not awarded in 1955. The William Shannon Morrison prize in History was awarded to John Robert Cooper of Clemson, South Carolina. The Charles Carter Newman prize in Horticulture to Robert James Donaldson, Jr. of Mt. Pleasant, South Carolina. The Walter Merritt Riggs prize in Electrical Engineering to John Martin Bailey of Seneca, South Carolina. The Augustus G. Shanklin prize in Military Science and Tactics to Thomas Champion Drew, Jr. of Gaffney, South Carolina.

Clark Lindsay McCaslan Award. The sum of \$1,000.00 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. In 1955 this award was given to James Aubrey Murphy of Starr, South Carolina and Pembroke, North Carolina.

Minaret Award. Awarded to the outstanding sophomore in Architecture. In 1955 this award was presented to John Davis Rogers, Jr. of Easley, South Carolina.

National Association of Cotton Manufacturers Medal. For several years, this medal has been awarded to the outstanding

graduate in Textile Engineering, both in February and in June. In 1955 these awards were given to Maung Maung Aye of Rangoon, Burma, and Joe Franklin Mattison of Belton, South Carolina.

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 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)."

In 1955 this medal was awarded to Allston Thomas Mitchell of Spartanburg, South Carolina.

American Ordnance Association Medal. The American Ordnance Association, Washington, D. C., sponsors annually an award to the outstanding second year advanced ordnance cadet. In 1955 the outstanding cadet in Ordnance Second Year Advanced ROTC was Whitten E. Little of Myrtle Beach, South Carolina.

Phi Eta Sigma Scholarship Medal. Awarded to the senior having the highest scholastic record. In 1955 this award was made to John Martin Bailey, Jr of Seneca, South Carolina.

Phi Kappa Phi Award. Awarded to the junior having the highest scholastic record. In 1955 this award was presented to William Plexico Hood, Jr. of Hickory Grove, North Carolina.

Phi Psi Award. This award is made 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. In 1955 this award was given to Allston Thomas Mitchell of Spartanburg, South Carolina.

Quartermaster Association Annual Awards. The Quartermaster Association, Washington, D. C., sponsors annual awards to the outstanding First Year Advanced Quartermaster Cadet and to the outstanding Second Year Advanced Quartermaster Cadet. In 1955 the outstanding cadet in Quartermaster First Year Advanced ROTC was Louis H. Wright of Staten Island, New York. The outstanding cadet in Quartermaster Second Year Advanced ROTC was Wildon Hucks of Galivants Ferry, South Carolina.

Ralston Purina Scholarship. An award of \$500.00 given annually by the Ralston Purina Company to an incoming senior in the

School of Agriculture. The award is made on the basis of scholarship, leadership, character, extra curricula activities, sincerity of purpose in agriculture and financial need. In 1955 this award was given to Morgan Irvin Fralick, Jr., Bamberg, South Carolina.

Republic Aviation Award. The Republic Aviation Corporation has made available a miniature model aircraft to be awarded to the Air Force ROTC Graduate who has demonstrated the greatest personal achievement and professional development in the study of Aeronautical Sciences while enrolled in the Aircraft Maintenance Option. In 1955, this award was presented to Benjamin S. Wiggins of Hopkins, South Carolina.

Sears, Roebuck Award. An award of \$250 is given to the sophomore who makes the highest scholastic average as a Freshman Sears, Roebuck Scholar. In 1955 this award was given to Henry Lewis Young, Jr. of Hemingway, South Carolina.

Sigma Pi Sigma Prize. Awarded to the outstanding senior in the Physics Department. In 1955 this award was presented to Richard Harry Carroll of Anderson, South Carolina.

Sigma Tau Epsilon Membership Award. Awarded to the sophomore majoring in the School of Arts and Sciences and having the highest scholastic record. In 1955 this award was not presented.

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. In 1955 the medal was awarded to William J. Purvis of Esmont, Virginia.

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.

In 1955 these medallions were awarded to Thomas Woodward Bookhart of Kingstree, South Carolina, a member of the graduating class, and to Sam Roseborough Rhodes, Professor Emeritus, School of Electrical Engineering, of Clemson, South Carolina.

Third Army Certificate of Meritorious Leadership Achievement. An award given annually by the Commanding General of Third Army to the outstanding cadet on the basis of leadership development throughout the ROTC career. This award was presented to Cadet Charles H. Ferguson of Great Falls, South Carolina as the outstanding ROTC Cadet in 1955.

Tau Beta Pi Scholastic Award. Awarded to the sophomore in engineering having the highest scholastic record. In 1955 this award was presented to Wistar Gustave Metz of Clemson, South Carolina.

Trustees' Medal. The Board of Trustees has provided for a gold medal to be awarded annually to the best speaker in the student body. The medal was awarded in 1955 to Marion Walter Sams, Jr. of Walterboro, South Carolina.

The Wall Street Journal Student Achievement Award. Awarded to the most outstanding graduate senior with a concentration in Economics in the School of Arts and Sciences. In 1955 this was given to William Theodore Jefferies of Burlington, North Carolina.

BUILDINGS AND GROUNDS

Buildings and Grounds. Tillman Hall serves as the administration building of the College, housing the offices of the president, the dean of the College, the comptroller and the registrar. At the north end of the building is Memorial Hall, the College auditorium, with a seating capacity of two thousand. On the upper floors there are also some twenty classrooms used by the School of Arts and Sciences.

The library building houses the main library, the agricultural reference department and the browsing room. In the library there are some 150,000 bound volumes, consisting of books, periodicals and government publications. In addition there are almost 800,000 unbound federal, state, experiment station and extension service publications and numerous unbound periodicals, pamphlets and clippings.

In the basement of the library building is the browsing room, a large, comfortably furnished space with popular books, current magazines and daily newspapers. Here is also housed the Carnegie record collection with turntables and individual listening arrangements.

The Schools of Agriculture, Engineering and Textiles have individual buildings as do the departments of chemistry, agricultural

engineering and ceramic engineering, the latter built and equipped in recent years by the Olin Foundation.

In addition to Long Hall, the School of Agriculture now also has the new agricultural center, made up of the plant and animal sciences building, the food industry building and ten greenhouses. These structures also house facilities of the extension service, experiment station, nutrition and fertilizer departments and other affiliated organizations. Some laboratory courses are taught at the poultry plant, veterinary hospital, dairy and livestock barns and other such buildings on the College farms.

Sirrine Hall, one of the largest buildings on the campus, provides ample space for the School of Textiles, for government and industrial cotton fiber testing laboratories and for the department of Air Science.

The School of Engineering is housed in Riggs Hall, Olin Hall, the old dairy building, a shop and laboratory building and temporary classroom structures.

Tillman Hall, the old and new chemistry buildings and the physics building contain the classrooms and laboratories of the School of Arts and Sciences.

The department of Military Science similarly is housed in the physics building, the old education building and a temporary classroom building.

Located about a quarter of a mile from the dormitories, the College infirmary contains facilities and equipment to care for the usual student illnesses and non-operative emergencies.

In 1954 the College completed a new dormitory and student center costing more than four million dollars. Of steel and concrete "lift-slab" construction, the structure has its rooms arranged around a vast quadrangle. With it and five other dormitories built during the late 1930's, all students are housed two per room in modern facilities. The student center contains an information room, a barber shop, a canteen, lounges, music and television rooms, a chapel and meeting rooms for clubs and other student activities.

The Y. M. C. A. building is conveniently located on the edge of the campus adjacent to the downtown area. With club rooms, lounges, game rooms, a cafeteria, thirty bedrooms for transient guests, two movie-theater-auditoriums and a swimming pool, it serves as a center for recreation, social activities and voluntary religious work. Plans are now being developed for a renovation and expansion program.

The physical education building near Memorial Stadium has a central office and dormitory section, dressing rooms, a field house and a gymnasium.

A new laundry building was completed recently and equipped with the latest laundry machinery to accommodate the students and some departments of the College.

The Clemson House, a modern college-owned hotel, provides permanent housing for faculty members, employees and rooms for transient guests. Its regular dining room, snack bar, private dining rooms and meeting rooms have made it a center for conferences and meetings of varied scope.

Fort Hill, the former home of John C. Calhoun and Thomas G. Clemson, stands in the center of the campus. In accordance with the provisions of Mr. Clemson's will, this residence has been made a shrine in honor of Mr. Calhoun. It is furnished with Calhoun and Clemson heirlooms and is open to visitors.

The College grounds comprise almost 29,000 acres, including the campus proper, the farms, the experiment station plots and the land-use area. The two hundred acre campus is laid out in walks, drives and lawns, shaded by native forest trees.

LIVING CONDITIONS

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.

Each student room is equipped with single width beds, built-in clothes lockers, study table and two chairs. Bed linen, bed cover, pillows, towels and laundry bags (minimum size 20 by 30 inches) must be furnished by the students. The upkeep of student rooms is checked by the dormitory supervisors and manager.

All students living in the College dormitories must take their meals in the dining hall. 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 five-day week plan (Monday through Friday) by paying for the meal on the semester basis.

At the present time no dormitory facilities are open for women students, who must find housing facilities in the town of Clemson and surrounding areas.

There are two housing projects operated by the College for married students. The Veterans Village consists of 287 units and are

equipped with oil burning space and water heaters. The monthly rental ranges from \$18.00 to \$27.00 and includes water, garbage and ground maintenance. Each unit is metered for electricity and bills are rendered monthly to tenants for electricity consumed.

The New Brick housing units consist of 50 two bedroom apartments and are equipped with cooking range, ice box, oil burning water and space heaters. The monthly rental is \$31.00 and \$34.00 per month, which includes water, 300 kw electricity per billing period, garbage and ground maintenance.

Applications for married student housing should be made to the College Housing Project Office which maintains a waiting list and assigns units on the basis of the date of application. Veterans are given priority on the assignment of units in the Veterans Village.

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 four-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.

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 thirty 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.

Students who have had at least six months of active military service are exempt from the basic ROTC course.

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 Dean of the College and the Professor of Air or Military Science concerned.

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

Students who complete the prescribed ROTC courses and receive a bachelors degree may be awarded commissions in either the Air Force or Army Reserve. Each student receives one credit hour for each semester of the basic course and three credit hours for each semester of advanced ROTC successfully completed, all of which are counted as approved credits in the curriculum 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 \$78.00 per month, reimbursed for travel at rate of five cents per mile for the round trip, and are messed, housed, uniformed and receive medical attention at government expense while at camp. The Air Force encampment is normally of four weeks duration and the Army encampment is normally of six 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 Department of Air Force and Army and accepted by the institution as a regularly enrolled student. To be enrolled initially in Air Force ROTC, a student must not be less than fourteen years of age. Maximum age requirements for enrollment in Air Force ROTC are that student must be able to complete all requirements for appointment as a Reserve Officer of the Air Force prior to his twenty-eighth birthday. The minimum requirements for enrollment in Army ROTC are that a student must not be less than fourteen years of age and must not have reached his twenty-third birthday at the time of the student's initial enrollment in the basic course. At the time of the student's initial enrollment in the advanced course of the Army ROTC, a student must not have reached his twenty-seventh birthday.

Currently, commutation in lieu of uniforms is paid to basic ROTC students at the rate of \$25.00 per year, not to exceed two years.

Advanced ROTC students receive \$100.00 commutation in lieu of uniforms for the Junior and Senior years combined, and commutation in lieu of subsistence at the rate of ninety cents per day for a total not to exceed 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 other benefits, provisions have been made to defer from Selective Service induction those 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 commissioned, and to satisfy the regular or reserve requirements as prescribed by law.

Rifle Team. The Air Force and Army jointly sponsor the College rifle team which consists of members of the Army and Air Force ROTC units and civilian members of the student body. In addition, there are separate Army and Air Force teams. 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 in an indoor range.

AIR FORCE ROTC

The main emphasis in the AFROTC program is to produce young officers who are highly qualified and motivated toward flying training, either as pilots or observers to fill active duty spaces in the Air Force. A very limited number of cadets, not qualified for flight training but who major in certain engineering courses, are also produced through this program. At present approximately 80% of commissioned officers entering the Air Force are AFROTC graduates.

The program is also expected to benefit students who enroll only in the basic course and intend to remain civilians. The purpose of the instruction is to increase the student's ability to understand and evaluate national and world affairs in the Air Age. It will give an additional point of view—a new perspective—on international developments, on the place of civilian and military aviation in the U. S. economy, and the importance of air power in the defense of the nation. The AFROTC program is concerned with developing thoughtful and well-rounded future leaders whether they are to be civilians or Air Force officers.

In addition to classroom instruction, all AFROTC cadets are organized into an AFROTC Cadet Wing, an organization patterned after the typical Air Force fighting unit. Once per week this organization meets to conduct the Leadership Training Laboratory, the primary mission of which is to develop by precept, example and instruction the qualities of leadership and other attributes required to be an Air Force officer. All of the supervisory positions during this time are held by AFROTC cadets.

An important part of the course is to provide orientation flights and field trips to cadets. Orientation flights are made regularly by cadets in Air Force aircraft at Donaldson Air Force Base, S. C., approximately 35 miles from Clemson. Such aircraft are flown by officers assigned to this detachment. Field trips are also arranged to Donaldson AFB to observe the base from all aspects of daily operation.

Screening for acceptance into advanced course is begun during second half of sophomore year. Students who plan to make application for advanced air science should make every effort to produce good records during first two years as it will be evaluated in the selection of the best qualified students.

Entrance requirements into advanced AFROTC are directly governed by officer manning requirements of the Air Force and are subject to change from year to year. At present the output from the course is restricted by a numerical quota, resulting in only best qualified students being accepted for the program and finally commissioned. Minimum requirements for consideration at the present are:

- (1) Demonstrate high degree of motivation toward securing commission and undergoing flying training in the Air Force.
- (2) Demonstrate qualities of leadership; or desire to acquire same.
- (3) Pass medical examination.
- (4) Make acceptable scores on Air Force Officer Qualification Test.
- (5) Pass at least 70 credits toward graduation and have grade point ratio of 2.0, or better.
- (6) Be within two years of graduation (if in 5 year curriculum, entrance into advanced is delayed until fourth year).
- (7) Have high moral character and meet other security rules and regulations.

During enrollment in advanced course cadets must continue to meet or improve on the entrance requirements for high academic grades, motivation for flying training and securing commission and leadership responsibilities. A continual program of observation is conducted and cadets who fall below minimum requirements and who do not make required adjustments after being counseled, are discharged from the program.

To continue enrollment during the final year of the program a cadet must:

- (1) Have completed Air Science III with grades that indicate a desire for and potential for further training.
- (2) Have demonstrated during his junior year that he possesses the necessary leadership qualities.
- (3) Have completed summer training with a rating which indicates a desire and potential for further training.
- (4) Have maintained at least entry grade point ratio.
- (5) Be within one year of graduation.

Currently, graduates who receive commissions are being called to active duty for three years, approximately 13 months of which is spent in flight training for those in flying categories.

The Air Force recently initiated a program of offering Regular Air Force commissions to outstanding AFROTC graduates. Any Air Force ROTC graduate may apply for a Regular Air Force commission after serving at least eighteen months active duty. Those students who are designated Distinguished AFROTC Graduates may apply and compete with graduates from other institutions for a Regular Air Force commission. Distinguished AFROTC Graduates are those who meet and *maintain* the requirements for designation as Distinguished AFROTC Cadets. Distinguished Cadets are appointed at the end of each school year from those juniors who are in the upper 25% of their major course and Air Science courses and who possess and have demonstrated outstanding qualities of leadership, character and aptitude for military service. These designations are approved by the College President and the Professor of Air Science.

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 walk of life 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 completes Army ROTC is appointed in the Army Reserve as a Second Lieutenant and called to active military service for two years or for six 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 six-month training period requires that the student retain his reserve commission and fulfill his reserve obligations for a total of eight years. A two-year training period entails a like obligation for six years.

Outstanding Army ROTC Cadets who attain grades in the upper half of the class in both academic and Military Science subjects during their Junior year and who possess outstanding qualities of leadership, character and aptitude for military service may be designated, with the approval of the College President, as Distinguished Military Students by the PMST. 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 115 or higher on a general intelligence test which is administered during the sophomore year, be physically qualified and must have acquired a minimum of 72 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. (A veteran must only meet the academic and physical requirements for entry in the Advanced Program.)

Senior Year. Must have completed all previous Military Science courses successfully and have attended summer camp except under certain circumstances; and must have acquired enough credits to enable him to graduate with two additional normal semesters of work. In addition, he must have the cumulative Grade Point Ratio required for graduation.

Exceptions to the above general rules may be made by the Professor of Military Science and Tactics.

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 overall knowledge in military subjects.

STUDENT HEALTH SERVICE

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

During clinic hours, students who desire may consult the Director of Student Health, and those who are admitted to the infirmary are cared for by experienced nurses. In case of necessity students are allowed to consult the Director of Student Health at any time, or to send for him in an emergency.

The Director of Student Health will not notify parents each time a student reports to the infirmary for medicine, rest or minor treatment. In event of serious illness or injury, parents will be notified immediately.

The medical fee paid by each student is intended to cover all ordinary cases of sickness and their treatment. It is not intended

to cover fees of doctors or specialists called into consultation, for performing operations, for special nurses or for any medical or surgical attentions performed away from the college. Clemson College does not assume any responsibility for accidents that happen away from the college. Such expenses are the responsibility of the student concerned. The right of Director of Student Health Service, with the approval of the President of the college, to incur in behalf of any student under his care any of these extra services is hereby expressly reserved.

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. Two of them have full-time student workers and one has a part-time student worker 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 and one of the church student workers serves as head of the Department of Religion. 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 thirty-seven—fifteen in the agricultural courses and twenty-two 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 five thousand 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.

THE OFFICE OF PUBLIC AND ALUMNI RELATIONS

The office of public and alumni relations was formed in 1951 by coordination of the functions of the alumni office and the news bureau. All matters concerning alumni and public information are handled through this office. The director of public and alumni relations is also secretary of the Clemson Alumni Corporation through election by its board of directors. He is assisted in his work by three associates: a director of the news bureau, a college editor and a director of sports publicity.

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

The purpose of the Alumni Corporation is to serve the college and its alumni in every possible way. The Corporation holds its regular annual meeting at the college on the Saturday of Commencement. At this meeting the directors of the Corporation are

elected and they in turn choose the officers. Annual dues are three dollars for those men whose classes have been graduated for less than five years and five dollars for all others.

The Clemson College Foundation was founded by interested members of the Alumni Corporation 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 Corporation.

THE
CLEMSON
AGRICULTURAL
COLLEGE
RECORD

PART III

Student Life and Activities

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, Alpha Chi Sigma, 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, Chemistry, 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, American Society of Mechanical Engineers, American Society of Civil Engineers, American Institute of Chemical Engineers, American Ceramic Society, American Institute of Architects, American Society of Agricultural Engineers and the Society of American Military Engineers.

The National Textile Manufacturing Society. Students majoring in Textile Manufacturing and Textile Engineering 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 under the musical leadership of the Director of Music. The organization performs the best in choral literature and makes appearances at various student functions on the campus. Students interested in the organization may become members by satisfactorily completing a simple audition. Previous experience and the ability to read music are not required.

In the spring of each year, the Glee Club makes a short tour of nearby institutions. Another highlight of the year is the participation by the Glee Club in a three hundred voice mixed choir

of South Carolina College students in a performance with the Southern Symphony Orchestra. This concert is given annually in Township Auditorium, Columbia, South Carolina.

There are two student orchestras, The Jungaleers and The Blue Notes. These orchestras furnish dance music at Clemson for some dances and at other places where they may be scheduled.

The Band is composed of students who are interested in playing at football games, concerts and parades. Some of the special occasions such as parades for certain ceremonies are away from the College.

Student Clubs. Students majoring in various courses of instruction have organized clubs. Among such clubs are the Agricultural Economics Society, Block and Bridle Club (Animal Husbandry), Dairy Club, History Club, Horticultural Club, Iota Epsilon (Industrial Education) and the Pre-Med Club. Gamma Alpha Mu recognizes superior journalistic services rendered by students.

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, 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, The Pershing Rifles, a national honorary military organization. Air Force students are recognized through The Arnold Air Society, a national Air Force honor fraternity. In addition to the military and Air Force honor fraternities, The Senior Platoon is organized as a Fancy Drill unit, composed of military and Air Force students of the Senior Class. The organization was activated in 1931 for the purpose of increasing proficiency and developing pride among cadet officers. Exhibitions of fancy drill are presented by this platoon and by Pershing Rifles at football games, parades and other celebrations and ceremonies.

Athletic. There are two clubs for students who participate in athletics, The Block C Club, which includes students who have earned letters in major sports, and The Minor C Club, which includes students who have earned letters in minor 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 agricultural clubs, The Bobbin and

Beaker, by the textile fraternity, The Slip Stick, by the engineering societies, Y. M. C. A. Handbook and The Clemson Tower 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.

COLLEGE BANDS

Membership in three bands active on the Clemson College campus is open to all those who successfully pass an entrance audition.

Tiger Band. The *Tiger Band* and Color Guard, composed of approximately 125 members, participate in football games, college functions and parades throughout the south. This band has appeared in major stadiums, including bowls, from Maryland to Florida, and has participated in the Azalea Festival, the Governor's Inauguration at Columbia. Membership in this band is open to all members of the student body.

Concert Band. The Clemson College *Concert Band* is composed of the better musicians on the campus. It is formed in the spring semester and gives several concerts during that time, both on and off the campus. This organization plays the more difficult works of the great composers. Membership is open to the entire student body and depends on passing an audition at the beginning of the semester.

ROTC Band. Talented students are encouraged to join the *ROTC Band*, consisting of both Air Force and Army units. Instruments are furnished by the College under the departments of the Air Force and Army. This band participates in all major military functions, including ceremonial parades and reviews. Admission to the band is open to all ROTC personnel and is based on passing a simple audition at the beginning of the semester.

All three bands are under the direction of Robert E. Lovett, Director of Bands.

CONCERT SERIES

The college, through the Concert Committee composed of faculty and student members, 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. All students are admitted to the concerts without additional charge.

Listed below is the program of concerts offered in 1955-1956:

The Marine Band
Ballet Espagnol
The Medium
Claudio Arrau
The Minneapolis Symphony
George London

THE COUNSELING SYSTEM

Fifty or more faculty members serve each year as special counselors for freshmen. Only fifteen or twenty freshmen are assigned to each counselor who is available to talk with his freshmen concerning their scholastic reports as well as to help them with any problems they may have.

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 Registrar's Office acts as a clearinghouse of information concerning students 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; and two magazines, *The Bobbin and Beaker* and *The Agrarian*. The visitors' lounge and the information center are on the first floor.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION

The Y. M. C. A. coordinates the religious, social, and recreational activities of students at Clemson. Its purpose is to meet these needs in the lives of students and to promote their growth in Christian character. Being a student Y. M. C. A. the needs of college students are of primary concern, but in addition to the college students and faculty, many of the residents of the Clemson community are closely associated with the program.

Religious activities promoted by the Y. M. C. A. include, vesper services on Sunday evenings, where some outstanding speakers and deputations from other colleges and universities lead the services, prayer groups in the dormitories each evening, forums in the dormitories, cooperation with church groups in the overall religious

program and counseling with students. Also the Y. M. C. A. is one of the agencies sponsoring the Religious Emphasis Week program for the college community. Deputations to other colleges, high schools and churches gives students an opportunity to give expression to their religious beliefs and convictions.

The Y. M. C. A. program is carried forward by the staff of three men and the Y. M. C. A. Cabinet and Councils. The Cabinet is composed primarily of students from the Junior and Senior classes. In addition to the cabinet there is a Y. M. C. A. Council in each of the four classes, which is responsible for specific religious and social activities in the class.

Prayer groups meet in the dormitories each evening and a morning watch service is held in the student chapel daily immediately after breakfast. The student chapel is also open at all times for private meditation. Rooms for counseling are adjacent to the student chapel where private conferences may be held.

The Y. M. C. A. has always tried to bring to the campus outstanding religious leaders and speakers in other fields, many of whom have been graduates of Clemson. Through such special services students are stimulated in their religious thinking and are also given an opportunity to present questions either in conferences or in private interviews.

Particular emphasis is given to work with young boys and girls in the community. The Day Camps, football, basketball, baseball and canteen programs are all related to the Christian ideals of the Y. M. C. A.

Counseling with students has become more important as the days go by. The Dean of Student Affairs, Y. M. C. A. Secretaries and local ministers are available to counsel with students at any time.

The Y. M. C. A. building and the student center provide space for the program. The Y. M. C. A. building has two auditoriums where regular movies are shown daily. One of them is used for the vesper services on Sunday evenings. Club rooms are available for socials and as meeting rooms. Some rooms provide some of the recreational facilities and the swimming pool is in use throughout the year. There are several nice rooms available to transients. A craft shop for the use of boys and girls is now being developed.

ATHLETICS

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 inter-collegiate athletics, the student must meet the requirements of the Atlantic Coast Conference as well as the requirements of the college.

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 inter-collegiate 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.

THE
CLEMSON
AGRICULTURAL
COLLEGE
RECORD

PART IV

Scholastic Regulations

PART IV—Scholastic Regulations

SCHOLASTIC REGULATIONS

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

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. All incomplete grades (I's) for a semester not removed within thirty days after the beginning of the next semester shall become F's unless an extension of time is approved by the instructor concerned and the Registrar.

WP—Withdrew Passing. This grade indicates that the student withdrew from the course while doing satisfactory work. The credit hours of a subject on which the grade of WP is received are counted as credits taken in computing the student's grade-point ratio.

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.

Removal of Conditions. 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 twelve 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.

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.

Special Examinations. Any request for a special examination must be approved by (1) the instructor concerned, (2) the head

of the department concerned, (3) the dean of the school, and (4) the registrar.

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

Grade Points—New System. Beginning with the first semester of the 1952-1953 session, four grade points are assigned for each credit hour on which the student receives the grade of A, three grade points for each credit hour of grade B, two grade points for each credit hour of grade C, and one 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.

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.

Minimum Requirements for Continuing Enrollment. To be eligible to enroll for the next session, a student in his first year of attendance in college must pass a minimum of 24 semester hours. Remedial work completed may be counted in this minimum total. Approved courses completed in summer school just prior to the first year or following the first year may also be included, except that the student attending summer school both years must choose which summer's work to include. He cannot count the work of both summer schools toward meeting this requirement.

A student in his second or any later year of attendance in college, to be eligible to continue his enrollment, must pass either (1) a minimum of twenty-four semester credit hours of work in the two semesters of the regular session, or (2) a minimum of thirty semester credit hours of work in the two semesters of the regular session and the summer term.

In the cases of upperclassmen failing to pass thirty semester credit hours of work in two regular sessions and the summer term, excep-

tion may be made for those students whose cumulative grade-point ratio, computed up to date to the nearest whole number, added to the number of hours passed will total thirty. For example, if a student passes twenty-eight hours, and his grade-point ratio is two, the two added together will total thirty, and he will be eligible to enroll for the next session. The above requirements will be prorated for students entering in February.

A student who enrolls for his first semester in September and who fails to earn a minimum of three semester credit hours must apply to the Committee on Admissions for permission to continue his enrollment. Remedial work completed may be counted in this minimum total.

The attention of students is directed to the fact that the freshman requirements apply to first year college students, and the more rigid requirements apply to college students in their second or later years, regardless of whether or not the student's attendance has been at Clemson or at some other institution. The student's classification does not enter into these regulations. The required minimum totals shall be exclusive of courses graded E and exclusive of courses graded I unless there are extenuating circumstances for the I.

The summer term referred to above is interpreted to mean the Clemson College Summer Term unless the student has special approval by the Committee on Admissions and the Committee on Transfer Credits to pursue a summer program at some other institution in an effort to redeem his academic standing at Clemson.

New Minimum Requirements for Continuing Enrollment. The minimum standards given below are effective for all students enrolled for the 1956-1957 session. By the end of the 1956-1957 session, a student must meet the minimum standard to be eligible to continue his or her enrollment.

(a) A student who has taken a total of 30 to 59 credit hours at Clemson must have a cumulative grade-point ratio of 0.8 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 1.2 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 1.4 or above.

A student who fails to meet the required grade-point ratio of 0.8 or 1.2, respectively, as indicated above may apply for readmission after a minimum of one semester has elapsed. A student who fails to meet the required grade-point ratio of 1.4 or above after

having taken 90 or more credit hours is permanently ineligible for readmission.

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 Registrar's Office. By obtaining advance approval the student is assured of receiving proper credit at Clemson providing he passes the work with a grade of C or higher. This approval is preferably obtained by the student in the spring prior to his leaving Clemson for the summer.

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 1.6 or above under the new grade-point system.

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 1.6 or above under the new grade-point system.

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 1.3 or above under the new grade-point system.

For sophomore classification in September, 1956, a student must have completed at least 30 semester credit hours and have a ratio of 1.4.

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.

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:

<i>Grade-point ratio required</i>	<i>Maximum credit hours which may be scheduled as advised by Class Adviser</i>
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

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.

Quality Requirements for Graduation. For graduation in the calendar years 1956, 1957, 1958 and 1959, a cumulative grade-point ratio of 1.7 or above is required. In 1960 a cumulative grade-point ratio of 1.8 will be required.

Honor Students and Honor Graduates. An honor list is published each semester, and each spring a Scholarship Day Program is held honoring students who qualify for the honor list as well as those qualifying for special awards. To qualify for honors on the semester honor list, a student must have a grade-point ratio of 3.0 or above, and to qualify for high honors a student must have a grade-point ratio of 3.5 or above.

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.

THE
CLEMSON
AGRICULTURAL
COLLEGE
RECORD

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 four-year curriculums offered under the Schools of Agriculture, Arts and Sciences and Textiles. The five-year course in Architecture leads to the Bachelor of Architecture degree. The degrees of Bachelor of Ceramic Engineering, Bachelor of Chemical Engineering, Bachelor of Civil Engineering, Bachelor of Electrical Engineering, and Bachelor of Mechanical Engineering are awarded to the graduates of these respective four-year courses.

The total semester credit hours required for graduation amount to 150 in each of the regular four-year curriculums. These credits include the prescribed subjects in each curriculum and an appropriate number of approved electives or technical electives as outlined in the regular four-year curriculums.

For graduation in February, June and August 1956, a student must complete his course with a grade-point ratio of 1.7 or above. For graduation in the calendar years of 1957, 1958 and 1959, a minimum grade-point ratio of 1.7 will be required. Candidates for the degrees listed above are required to apply for their degrees at least two months prior to the date the degrees are to be awarded. These applications should be filled out in the Registrar's Office on the regular blanks provided.

All work for a degree must be completed by 5 p. m., on the Thursday preceding graduating exercises. Residence of at least one regular session is required for graduation. Every candidate for a degree must pay to the Bursar of the College the cost of his diploma before the time the diploma order is placed.

A senior who fails to graduate because of one F on a subject or one or more grades of E or I shall have an opportunity of removing the unsatisfactory grades by examination after commencement, provided he can furnish evidence of having done satisfactory study. A senior who qualifies for graduation under this regulation 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 Master of Ceramic Engineering, Master of Civil Engineering, Master of Electrical Engineering, Master of Mechanical Engineering and Master of Science are awarded to those students who satisfactorily complete prescribed graduate programs of work consisting of a minimum of 30 semester credit hours in the student's fields of concentration. Of the 30 semester credit hours required 6 must be for research and at least 12 must come from the courses which are designed exclusively for graduate students.

For further information concerning advanced degrees see *The Graduate Bulletin*, which may be obtained from the Office of the Registrar.

PROFESSIONAL DEGREES

The College offers the following professional engineering degrees: Civil Engineer, Electrical Engineer and Mechanical Engineer.

The requirements for these degrees are: (a) a Bachelor's degree from Clemson College in one of these three branches in engineering, (b) five years of subsequent professional experience, one year of which must have been in responsible charge of engineering or engineering instruction, (c) the preparation of a thesis demonstrating distinct technical ability. (Detailed information regarding professional degrees may be obtained from the Registrar.)

CURRICULUMS

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

SCHOOL OF AGRICULTURE

Agricultural Economics
 *Agricultural Engineering
 Agronomy
 Animal Husbandry
 Botany
 Dairy
 Entomology
 Horticulture
 Poultry

Vocational Agricultural
 Education

Pre-Forestry
 Pre-Veterinary

SCHOOL OF ARTS AND SCIENCES

Agricultural Chemistry
 Arts and Sciences
 Chemistry
 Education
 Industrial Education

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

Industrial Management

Industrial Physics

Pre-Medicine

SCHOOL OF ENGINEERING

*Agricultural Engineering

Architecture

Ceramic Engineering

Chemical Engineering

Civil Engineering

Electrical Engineering

Mechanical Engineering

SCHOOL OF TEXTILES

Textile Chemistry

Textile Engineering

Textile Manufacturing

While the College is glad to assist all who ask for help in securing employment, it does not guarantee positions to those who complete any of the courses of study.

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 School of Agriculture is composed of four main divisions: Resident Teaching, Research (Agricultural Experiment Station), Extension (Agricultural Extension Service), and Livestock Sanitation. Organized under the division of Resident Teaching are curriculums in Agricultural Economics, Agricultural Engineering, Agronomy, Animal Husbandry, Botany, Dairying, Entomology, Horticulture, Poultry, Vocational Agricultural Education, Pre-Forestry, and Pre-Veterinary Medicine. Some of the job opportunities in each of eight areas of employment are indicated below: Farming—both general and specialized farm production. Research—research with Agricultural Experiment Stations, the United States Department of Agriculture and other agencies in the fields of farm production, processing, marketing, and agricultural engineering. Education—positions with high schools, colleges and universities, agricultural extension services, and farm organizations. Industry—employment related to meat and poultry packing, farm machinery, fertilizers and lime, pesticides and herbicides, dairy processing, food and seed processing and feed manufacturing. Business—banking and credit, insurance, farm management, land appraisal, marketing, storage and warehousing, transportation, and private businesses. Communications—newspapers, publications, magazines, radio and television. Conservation—work related to the conservation of soil, water, forests, fish, and wildlife. Agricultural Services—pub-

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

lic services with the United States Department of Agriculture and state departments of agriculture, and private service, such as veterinarians and agricultural consultants. 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.

The curriculum in Agricultural Engineering is jointly administered by the School of Engineering and the School of Agriculture and may be found in this catalog under the School of Agriculture.

AGRICULTURE

BASIC CURRICULUM

Required of all agricultural students except those in Agricultural Engineering, Vocational Agricultural Education, Pre-Forestry, and Pre-Veterinary

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
AH 101 Types and Breeds.....	2 (2,0)	Agron 101 Farm Crops.....	3 (3,0)
AH 103 Types and Breeds Lab....	1 (0,3)	Chem 102 General Chemistry....	4 (3,3)
Bot 101 General Botany.....	3 (3,0)	Engl 102 Engl. Composition.....	3 (3,0)
Bot 103 General Botany Lab.....	1 (0,3)	Math 102 Trigonometry.....	3 (3,0)
Chem 101 General Chemistry.....	4 (3,3)	Zool 101 General Zoology.....	3 (3,0)
Engl 101 Engl. Composition.....	3 (3,0)	Zool 103 General Zoology Lab....	1 (0,3)
Math 101 College Algebra.....	3 (3,0)	AS or MS - Basic.....	1 (2,1)
AS or MS - Basic.....	1 (2,1)		

18

18

SOPHOMORE YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Ag Ec 201 Agric. Economics.....	3 (3,0)	Ag Ch 220 Agric. Org. Chemistry*..	4 (3,3)
Ag En 201 Farm Machinery.....	3 (2,3)	Agron 202 Soils.....	3 (2,3)
Engl 203 Survey of Engl. Lit.....	3 (3,0)	Dairy 201 Dairying.....	3 (2,3)
For 205, 207 Farm Forestry.....	3 (2,3)	Engl 204 Survey of Engl. Lit.....	3 (3,0)
or Geol 201 Agric. Geology.....	3 (3,0)	Phys 202 General Physics.....	3 (3,0)
Hort 201 Gen. Horticulture.....	3 (2,3)	Phys 204 General Physics Lab....	1 (0,3)
Phys 201 General Physics.....	3 (3,0)	AS or MS - Basic.....	1 (2,1)
Phys 203 General Physics Lab....	1 (0,3)		
AS or MS - Basic.....	1 (2,1)		

20

18

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

Training in Agricultural Economics and Rural Sociology prepares students wholly or in part for farming; managing farms; appraising land; marketing activities; supervising agricultural loan departments in private banks; directing farmer cooperatives such as the production credit and farm loan associations affiliated with the Farm Credit Administration; educational work as teachers or extension workers; public relations research and sales work for the manufacturers of agricultural implements, fertilizers, etc.; organi-

* Agricultural Economics majors may substitute Math 104 for Ag Ch 220.

zational and publicity work for farm organizations and cooperative associations; positions in state, county and local government service; research work in farm management, farm credit, taxation, marketing, farm population and rural life trends; farm planning work for the Soil Conservation Service; and for operating numerous enterprises where a knowledge of economic principles is an essential supplement to knowledge of the technical requirements of the business.

AGRICULTURAL ECONOMICS MAJOR

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

First Semester

Ag Ec 305 Farm Accounting	3 (2,3)
Ag Ec 309 Marketing	3 (2,3)
Engl 301 Public Speaking	3 (3,0)
Hist 301 U. S. since 1865	3 (3,0)
RS 301 Rural Sociology	3 (3,0)
Approved Electives	4

19

Suggested Electives:

Ag Ec 357 Con. Nat. Resources	3 (3,0)
Ag Ec 361 Mktg. Livestock	3 (3,0)
AS or MS - Advanced	3 (4,1)
YM 305 Cotton Marketing	1 (0,3)

Second Semester

Ag Ec 302 Farm Management	4 (3,3)
Ag Ec 352 Public Finance	3 (3,0)
Engl 401 Adv. Comp.	3 (3,0)
PH 301 Farm Poultry	3 (3,0)
PH 303 Farm Poultry Lab.	1 (0,3)
Approved Electives	4

18

Suggested Electives:

AS or MS - Advanced	3 (4,1)
Econ 302 Money and Banking	3 (3,0)
Ent 301 Elem. & Econ. Ent.	3 (2,3)

SENIOR YEAR

First Semester

Ag Ec 401 Statistics	4 (3,3)
Ag Ec 405 Seminar	1 (1,0)
Ag Ec 451 Agricultural Coop.	2 (2,0)
or Ag Ec 460 Agric. Finance	2 (2,0)
Ag 302 Genetics	3 (2,3)
Psych 301 General Psychology	3 (3,0)
Approved Electives	7

20

Suggested Electives:

AS or MS - Advanced	3 (4,1)
Gov 403 International Relations	3 (3,0)
RS 459 The Rural Community	3 (3,0)

Second Semester

Ag Ec 406 Seminar	1 (1,0)
Ag Ec 452 Agric. Policy	3 (3,0)
Ag Ec 456 Prices	3 (3,0)
Gov 301 Am. G. & Pol. Par.	3 (3,0)
Approved Electives	9

19

Suggested Electives:

Ag Ec 462 Applied Statistics	3 (2,3)
AS or MS - Advanced	3 (4,1)
RS 461 Rural Leadership	3 (3,0)
Soc 402 The Family	3 (3,0)

AGRONOMY

Agronomy graduates have opportunities in general farming, soil conservation service, agricultural extension and experiment station work, and may also be found as plant breeders, soil analysts, and crop specialists. Other positions include work with commercial concerns such as fertilizer companies, seedsmen, and manufacturers of certain food products.

AGRONOMY MAJOR

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

First Semester

Ag En 301 Soil Conservation.....	3	(2,3)
Agron 301 Fertilizers.....	3	(3,0)
Bact 301 Gen. Bacteriology.....	3	(3,0)
Bact 303 Gen. Bacteriology Lab....	1	(0,3)
Engl 301 Public Speaking.....	3	(3,0)
Approved Electives.....	6	

19

Suggested Electives:

AS or MS - Advanced.....	3	(4,1)
Chem 215 Qual. Analysis.....	4	(2,6)
Chem 216 Quan. Analysis.....	4	(2,6)
Ent 301 Elem. & Econ. Ent.....	3	(2,3)
RS 301 Rural Sociology.....	3	(3,0)

Second Semester

Agron 302 Genetics.....	3	(2,3)
Agron 306 Forage Crops.....	4	(3,3)
Bot 352 Plant Physiology.....	3	(3,0)
Bot 354 Plant Physiology Lab....	1	(0,3)
PH 301 Farm Poultry.....	3	(3,0)
PH 303 Farm Poultry Lab.....	1	(0,3)
Approved Elective.....	3	

18

Suggested Electives:

Ag Ec 302 Farm Management.....	4	(3,3)
AS or MS - Advanced.....	3	(4,1)
For 205 Farm Forestry.....	2	(2,0)
For 207 Farm Forestry Lab.....	1	(0,3)

SENIOR YEAR

Agron 401 Adv. Crop Lab.....	1	(0,3)
Agron 405 Plant Breeding.....	3	(2,3)
Agron 409 Cotton & Tobacco.....	3	(3,0)
Agron 451 Min. Nutr. Crops.....	2	(2,0)
Agron 455 Seminar.....	1	(1,0)
Agron 457 Res. and Thesis.....	1	(0,3)
Bot 401 Plant Pathology.....	2	(2,0)
Bot 403 Plant Pathology Lab.....	1	(0,3)
Psych 301 Gen. Psychology.....	3	(3,0)
Approved Elective.....	3	

20

Suggested Electives:

Ag Ec 309 Marketing.....	3	(2,3)
Ag Ec 401 Statistics.....	4	(3,3)
AS or MS - Advanced.....	3	(4,1)

Agron 452 Soil Management.....	2	(2,0)
Agron 454 Adv. Soil Lab.....	1	(0,3)
Agron 456 Seminar.....	1	(1,0)
Agron 458 Res. and Thesis.....	1	(0,3)
AH 301 Feeds and Feeding.....	3	(3,0)
Bact 410 Soil Microbiology.....	2	(2,0)
Bact 412 Soil Microbiology Lab....	1	(0,3)
Gov 301 Am. G. & Pol. Par.....	3	(3,0)
Approved Electives.....	5	

19

Suggested Electives:

Ag Ec 460 Agric. Finance.....	2	(2,0)
AS or MS - Advanced.....	3	(4,1)
Bot 356 Taxonomy.....	1	(1,0)
Bot 358 Taxonomy Lab.....	2	(0,6)
Bot 402 Economic Botany.....	2	(2,0)
Bot 404 Economic Botany Lab.....	1	(0,3)

ANIMAL HUSBANDRY

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

ANIMAL HUSBANDRY MAJOR

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

First Semester

Agron 301 Fertilizers.....	3	(3,0)
Agron 302 Genetics.....	3	(2,3)
AH 301 Feeds and Feeding.....	3	(3,0)
AH 303 Feeding Lab.....	1	(0,3)
Engl 301 Public Speaking.....	3	(3,0)
Approved Electives.....	6	

19

Second Semester

Ag Ec 302 Farm Management.....	4	(3,3)
Agron 306 Forage Crops.....	4	(3,3)
AH 306 Judging.....	1	(0,3)
AH 310 Pork Production.....	2	(2,0)
AH 312 Breeds of Livestock.....	2	(2,0)
AH 314 Pork Production Lab.....	1	(0,3)
Gov 301 Am. G. & Pol. Par.....	3	(3,0)
Approved Elective.....	3	

20

Suggested Electives:

AS or MS — Advanced.....	3 (4,1)
Ent 301 Elem. & Econ. Ent.....	3 (2,3)
RS 301 Rural Sociology.....	3 (3,0)

Suggested Electives:

Ag Ec 460 Agric. Finance.....	2 (2,0)
Ag En 301 Soil Conservation.....	3 (2,3)
AS or MS — Advanced.....	3 (4,1)

SENIOR YEAR

AH 401 Beef Production.....	2 (2,0)
AH 403 Beef Production Lab.....	1 (0,3)
AH 451 Advanced Feeds.....	2 (2,0)
AH 455 Farm Meats.....	2 (0,6)
Bact 301 Gen. Bacteriology.....	3 (3,0)
Bact 303 Gen. Bacteriology Lab.....	1 (0,3)
Psych 301 Gen. Psychology.....	3 (3,0)
Approved Electives.....	6

20

AH 402 Horse & Sheep Prod.....	2 (2,0)
AH 406 Seminar.....	2 (2,0)
AH 452 Animal Breeding.....	2 (2,0)
AH 454 Animal Breeding Lab.....	1 (0,3)
AH 456 Advanced Meats.....	1 (1,0)
PH 301 Farm Poultry.....	3 (3,0)
PH 303 Farm Poultry Lab.....	1 (0,3)
Approved Electives.....	5

17

Suggested Electives:

Ag Ec 309 Marketing.....	3 (2,3)
AS or MS — Advanced.....	3 (4,1)
AH 405 Advanced Judging.....	1 (0,3)
Dairy 309 Animal Nutrition.....	3 (3,0)
Zool 402 Animal Anat. & Phys.....	3 (2,3)

Suggested Electives:

Ag Ec 361 Mktg. Livestock.....	3 (3,0)
AS or MS — Advanced.....	3 (4,1)
Hort 464 Food Preservation.....	3 (2,3)
Zool 404 Diseases of Animals.....	3 (2,3)

BOTANY

Botany involves the study of the structure, physiology, classification, and diseases of plants. Graduates specializing in botany can choose teaching, research, or agricultural extension work in educational institutions. Opportunities also exist with manufacturers of foods, fibers, antibiotics, chemical fertilizers, soil conditioners, weed control chemicals, herbicides, fungicides, and with seed companies. Specialists find jobs in nursery, orchard, and food inspection, as well as in the new fields developing from the study of growth regulators and radioactive isotopes in the metabolic processes in plants.

BOTANY MAJOR

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

First Semester

Bact 301 Gen. Bacteriology.....	3 (3,0)
Bact 303 Gen. Bacteriology Lab.....	1 (0,3)
Bot 351 Plant Morphology.....	2 (2,0)
Bot 353 Plant Morphology Lab.....	2 (0,6)
Bot 355 Histology.....	2 (0,6)
Engl 301 Public Speaking.....	3 (3,0)
Ger 101 Elementary German.....	3 (3,0)
Approved Elective.....	3

19

Second Semester

Agron 302 Genetics.....	3 (2,3)
Bot 352 Plant Physiology.....	3 (3,0)
Bot 354 Plant Physiology Lab.....	1 (0,3)
Bot 356 Taxonomy.....	1 (1,0)
Bot 358 Taxonomy Lab.....	2 (0,6)
Ger 102 Elementary German.....	3 (3,0)
Gov 301 Am. G. & Pol. Par.....	3 (3,0)
Approved Elective.....	3

19

Suggested Electives:

AS or MS — Advanced.....	3 (4,1)
Econ 312 Commercial Law.....	3 (3,0)
Hort 301 Prin. Veg. Prod.....	3 (2,3)

Suggested Electives:

AS or MS — Advanced.....	3 (4,1)
Ent 302 General Entomology.....	3 (2,3)
For 205 Farm Forestry.....	2 (2,0)
For 207 Farm Forestry Lab.....	1 (0,3)

SENIOR YEAR

Bot 401 Plant Pathology.....	2 (2,0)	Bot 402 Economic Botany.....	2 (2,0)
Bot 403 Plant Pathology Lab.....	1 (0,3)	Bot 404 Economic Botany Lab.....	1 (0,3)
Bot 405 Seminar & Thesis.....	2 (1,3)	Bot 406 Seminar & Thesis.....	2 (1,3)
Bot 451 Morph. of Fungi.....	2 (2,0)	Bot 452 Ecology.....	2 (2,0)
Bot 453 Morph. Fungi Lab.....	1 (0,3)	Bot 454 Ecology Lab.....	2 (0,6)
Ent 301 Elem. & Econ. Ent.....	3 (2,3)	PH 301 Farm Poultry.....	3 (3,0)
Psych 301 Gen. Psychology.....	3 (3,0)	PH 303 Farm Poultry Lab.....	1 (0,3)
Approved Electives.....	6	Approved Electives.....	5

20

Suggested Electives:

Ag Ec 401 Statistics.....	4 (3,3)
Agron 405 Plant Breeding.....	3 (2,3)
Agron 451 Min. Nutr. Crops.....	2 (2,0)
AS or MS - Advanced.....	3 (4,1)

18

Suggested Electives:

Agron 452 Soil Management.....	2 (2,0)
Agron 454 Adv. Soil Lab.....	1 (0,3)
AS or MS - Advanced.....	3 (4,1)
Bact 410 Soil Microbiology.....	2 (2,0)
Bact 412 Soil Microbiology Lab.....	1 (0,3)
Hort 456 Truck Crops.....	3 (2,3)

DAIRY

Opportunities in dairying include dairy farming, dairy plant management, dairy herdsmen for large breeding companies, ice cream manufacturing, laboratory and technical work in dairy plants, milk inspection work, dairy extension specialist, research work with state, federal and commercial organizations, as well as many positions with milk products laboratories and production plants.

DAIRY MAJOR

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

First Semester

Agron 302 Genetics.....	3 (2,3)
Bact 301 Gen. Bacteriology.....	3 (3,0)
Bact 303 Gen. Bacteriology Lab.....	1 (0,3)
Dairy 302 Dairy Technology.....	3 (2,3)
Dairy 305 Dairy Cattle Judging.....	1 (0,3)
Dairy 309 Animal Nutrition.....	3 (3,0)
Approved Electives.....	5

19

Suggested Electives:

Ag Ec 401 Statistics.....	4 (3,3)
AS or MS - Advanced.....	3 (4,1)
Ent 301 Elem. & Econ. Ent.....	3 (2,3)
Zool 302 Embryology.....	3 (2,3)
Zool 402 Animal Anat. & Phys.....	3 (2,3)

Second Semester

AH 301 Feeds and Feeding.....	3 (3,0)
Dairy 306 Market Milk.....	3 (3,0)
Engl 301 Public Speaking.....	3 (3,0)
PH 301 Farm Poultry.....	3 (3,0)
PH 303 Farm Poultry Lab.....	1 (0,3)
Approved Electives.....	6

19

Suggested Electives:

AS or MS - Advanced.....	3 (4,1)
AH 310 Pork Production.....	2 (2,0)
AH 314 Pork Production Lab.....	1 (0,3)
Dairy 304 Judg. Dairy Prod.....	1 (0,3)
Dairy 308 Adv. Dy. Cattle Judg.....	1 (0,3)
Dairy 352 Advertising & Mktg.*.....	3 (3,0)
Dairy 354 Endocrinology**.....	3 (3,0)
Dairy 358 Artificial Insemination of Farm Animals**.....	3 (2,3)

SENIOR YEAR

Agron 301 Fertilizers.....	3 (3,0)	Dairy 402 Dairy Manufactures.....	4 (2,6)
Bact 402 Dairy Bacteriology.....	2 (2,0)	Dairy 405 Breeding.....	3 (2,3)
Bact 404 Dairy Bacteriology Lab.....	1 (0,3)	Dairy 410 Seminar.....	2 (2,0)
Dairy 401 Dairy Manufactures.....	3 (2,3)	Gov 301 Am. G. & Pol. Par.....	3 (3,0)
Dairy 409 Seminar.....	2 (2,0)	Psych 301 Gen. Psychology.....	3 (3,0)
Dairy 452 Feeding & Mgt.....	3 (2,3)	Approved Elective.....	3
Approved Electives.....	6		

20

18

* Dairy 306 and 352 are given in alternate years.

** Dairy 354 and 358 are given in alternate years.

Suggested Electives:

Agron 306 Forage Crops.....	4 (3,3)
AS or MS - Advanced.....	3 (4,1)
Econ 312 Commercial Law.....	3 (3,0)
Econ 401 Accounting.....	3 (3,0)

Suggested Electives:

Ag Ec 302 Farm Management....	4 (3,3)
Ag Ec 460 Agric. Finance.....	2 (2,0)
AS or MS - Advanced.....	3 (4,1)
Dairy 352 Advertising & Mktg.*	3 (3,0)
Zool 404 Diseases of Animals....	3 (2,3)

ENTOMOLOGY

Many Entomology graduates normally enter federal service with the U. S. Bureau of Entomology and Plant Quarantine as research men or as inspectors. Others enter responsible positions in teaching, research and extension staffs of the several State Colleges and Universities. Insecticide manufacturing concerns also attract many Entomology graduates. Beekeeping is also one phase of entomological work.

ENTOMOLOGY MAJOR

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

First Semester

Bact 301 Gen. Bacteriology.....	3 (3,0)
Bact 303 Gen. Bacteriology Lab....	1 (0,3)
Engl 301 Public Speaking.....	3 (3,0)
Ent 301 Elem. & Econ. Ent.....	3 (2,3)
Ger 101 Elementary German.....	3 (3,0)
Zool 301 Advanced Zoology.....	3 (2,3)
Approved Elective.....	3

19

Suggested Electives:

AS or MS - Advanced.....	3 (4,1)
Hort 305 Plant Propagation.....	3 (2,3)
RS 301 Rural Sociology.....	3 (3,0)

Second Semester

Agron 302 Genetics.....	3 (2,3)
Bot 352 Plant Physiology.....	3 (3,0)
Bot 354 Plant Physiology Lab....	1 (0,3)
Ent 302 General Entomology.....	3 (2,3)
Zool 306 Game Management.....	2 (2,0)
Approved Electives.....	7

19

Suggested Electives:

AS or MS - Advanced.....	3 (4,1)
For 205 Farm Forestry.....	2 (2,0)
For 207 Farm Forestry Lab.....	1 (0,3)
Ger 102 Elementary German.....	3 (3,0)
Zool 302 Embryology.....	3 (2,3)

SENIOR YEAR

Bot 401 Plant Pathology.....	2 (2,0)
Bot 403 Plant Pathology Lab....	1 (0,3)
Ent 401 Econ. Entomology.....	3 (2,3)
Ent 405 Insect Morphology.....	3 (2,3)
Ent 451 Res. Tech. & Meth.....	2 (1,3)
Psych 301 Gen. Psychology.....	3 (3,0)
Approved Electives.....	6

20

Suggested Electives:

Ag Ec 401 Statistics.....	4 (3,3)
AS or MS - Advanced.....	3 (4,1)
Bot 451 Morph. of Fungi.....	2 (2,0)
Bot 453 Morph. Fungi Lab.....	1 (0,3)
Soc 301 Intro. Sociology.....	3 (3,0)
Zool 403 Protozoology.....	3 (2,3)
Zool 405 Animal Histology.....	3 (2,3)

Ent 402 Econ. Entomology.....	3 (2,3)
Ent 406 Beekeeping.....	3 (2,3)
Ent 452 Taxonomic Ent.....	2 (1,3)
Ent 456 Parasitology.....	3 (2,3)
Ent 460 Seminar.....	2 (2,0)
Gov 301 Am. G. & Pol. Par.....	3 (3,0)
Approved Elective.....	2

18

Suggested Electives:

AS or MS - Advanced.....	3 (4,1)
Bot 356 Taxonomy.....	1 (1,0)
Bot 358 Taxonomy Lab.....	2 (0,6)
Econ 312 Commercial Law.....	3 (3,0)
Zool 402 Animal Anat. & Phys....	3 (2,3)

HORTICULTURE

Opportunities in Horticulture include vegetable and fruit farm management, nursery management, landscape gardening, fresh fruit and vegetable and food products inspection, plant breeding, agricultural extension service, experiment station research, and food canning, freezing and dehydration. Other occupations include work with florists, seedsmen, fruit products companies, fertilizer companies, fungicide and insecticide manufacturers and dealers, and spraying and dusting equipment manufacturers and dealers.

HORTICULTURE MAJOR

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

First Semester

Agron 301 Fertilizers	3	(3,0)
Bact 301 Gen. Bacteriology	3	(3,0)
Bact 303 Gen. Bacteriology Lab.	1	(0,3)
Ent 301 Elem. & Econ. Ent.	3	(2,3)
Hort 301 Prin. Veg. Prod.	3	(2,3)
Hort 305 Plant Propagation	3	(2,3)
Approved Elective	3	

19

Suggested Electives:

AS or MS - Advanced	3	(4,1)
RS 301 Rural Sociology	3	(3,0)

Second Semester

Agron 302 Genetics	3	(2,3)
Bot 352 Plant Physiology	3	(3,0)
Bot 354 Plant Physiology Lab.	1	(0,3)
Engl 301 Public Speaking	3	(3,0)
Gov 301 Am. G. & Pol. Far.	3	(3,0)
Hort 306 Landscape Design	2	(2,0)
Hort 308 Landscape Design Lab.	1	(0,3)
Approved Elective	3	

19

Suggested Electives:

Ag Ec 302 Farm Management	4	(3,3)
AS or MS - Advanced	3	(4,1)
Bot 356 Taxonomy	1	(1,0)
Bot 358 Taxonomy Lab.	2	(0,6)

SENIOR YEAR

Ag Ec 302 Farm Management	4	(3,3)
or Ag Ec 309 Marketing	3	(2,3)
Bot 401 Plant Pathology	2	(2,0)
Bot 403 Plant Pathology Lab.	1	(0,3)
Hort 409 Seminar	1	(1,0)
Hort 451 Syst. Pomology	3	(2,3)
Hort 455 Breeding Hort. Crops	3	(2,3)
or Hort 405 Nut Culture *	3	(2,3)
Psych 301 Gen. Psychology	3	(3,0)
Approved Elective	3	- 4

20

Suggested Electives:

AS or MS - Advanced	3	(4,1)
Hort 401 Landscape Design	2	(2,0)
Hort 403 Landscape Design Lab.	1	(0,3)
Hort 415 Floriculture	3	(2,3)

Hort 410 Seminar	1	(1,0)
Hort 452 Commercial Pomology	3	(2,3)
or Hort 402 Garden Design	2	(2,0)
Hort 404 Garden Design Lab.	1	(0,3)
Hort 456 Truck Crops	3	(2,3)
or Hort 460 Landscape Design	3	(2,3)
Hort 464 Food Preservation	3	(2,3)
PH 301 Farm Poultry	3	(3,0)
PH 303 Farm Poultry Lab.	1	(0,3)
Approved Elective	4	

18

Suggested Electives:

Ag En 301 Soil Conservation	3	(2,3)
AS or MS - Advanced	3	(4,1)
Ent 406 Beekeeping	3	(2,3)
Hort 466 Research Methods	3	(2,3)

* Hort 405 and 455 are given in alternate years.

POULTRY

Graduates in Poultry Husbandry have opportunities as poultry farm operators, hatchery managers, sales and servicemen with feed manufacturers and poultry equipment concerns, poultry research workers and extension agents.

POULTRY MAJOR

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

First Semester

Agron 302 Genetics.....	3 (2,3)
AH 301 Feeds and Feeding.....	3 (3,0)
AH 303 Feeding Lab.....	1 (0,3)
RS 301 Rural Sociology.....	3 (3,0)
Zool 402 Animal Anat. & Phys.....	3 (2,3)
Approved Electives.....	6

19

Suggested Electives:

AS or MS - Advanced.....	3 (4,1)
Ent 301 Elem. & Econ. Ent.....	3 (2,3)
Zool 301 Advanced Zoology.....	3 (2,3)

Second Semester

Ag Ec 302 Farm Management....	4 (3,3)
Bact 301 Gen. Bacteriology.....	3 (3,0)
Bact 303 Gen. Bacteriology Lab....	1 (0,3)
Engl 301 Public Speaking.....	3 (3,0)
PH 301 Farm Poultry.....	3 (3,0)
PH 303 Farm Poultry Lab.....	1 (0,3)
Approved Elective.....	3

18

Suggested Electives:

Agron 306 Forage Crops.....	4 (3,3)
AS or MS - Advanced.....	3 (4,1)
Zool 302 Embryology.....	3 (2,3)
Zool 306 Game Management.....	2 (2,0)

SENIOR YEAR

PH 451 Poultry Breeding.....	3 (2,3)
PH 455 Grading & Process.....	3 (2,3)
PH 459 Diseases & Parasites.....	3 (2,3)
Psych 301 Gen. Psychology.....	3 (3,0)
Approved Electives.....	7

19

Suggested Electives:

Ag Ec 309 Marketing.....	3 (2,3)
Ag Ec 401 Statistics.....	4 (3,3)
AS or MS - Advanced.....	3 (4,1)
Dairy 309 Nutrition.....	3 (3,0)

Gov 301 Am. G. & Pol. Par.....	3 (3,0)
Hort 464 Food Preservation.....	3 (2,3)
PH 452 Feed. & Flock Mgt.....	3 (2,3)
PH 456 Incubat. & Brood.....	3 (2,3)
PH 460 Seminar.....	2 (2,0)
Approved Electives.....	6

20

Suggested Electives:

AS or MS - Advanced.....	3 (4,1)
Ent 406 Beekeeping.....	3 (4,0)
Zool 405 Animal Histology.....	3 (2,3)

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, equip-

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

ment retailers and consulting engineers. The Agricultural Engineering curriculum is accredited by the Engineers' Council for professional development.

AGRICULTURAL ENGINEERING

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry.....	4	(3,3)
DD 105 Engr. Drawing.....	2	(0,6)
Engl 101 Engr. Composition.....	3	(3,0)
IE 101 Mfg. Processes.....	2	(0,6)
Math 103 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)

17

Second Semester

Chem 102 General Chemistry.....	4	(3,3)
CE 101 Elementary Surveying.....	2	(1,3)
DD 106 Engr. Drawing.....	2	(0,6)
Engl 102 Engr. Composition.....	3	(3,0)
Math 104 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)

17

SOPHOMORE YEAR

Ag En 203 Ag. Engr. Problems.....	2	(1,3)
Ag En 207 Farm Mechanics.....	2	(1,3)
AH 101 Types and Breeds.....	2	(2,0)
Engl 203 Survey of Engr. Lit.....	3	(3,0)
Math 203 Diff. Calculus.....	5	(5,0)
Phys 211 Gen. Phys. for Engr.....	4	(4,0)
Phys 213 Gen. Phys. Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)

20

Ag En 202 Farm Equipment.....	3	(2,3)
Agron 101 Farm Crops.....	3	(3,0)
Engl 204 Survey of Engr. Lit.....	3	(3,0)
Math 204 Integral Calculus.....	5	(5,0)
Phys 212 Gen. Phys. for Engr.....	4	(4,0)
Phys 214 Gen. Phys. Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)

20

JUNIOR YEAR

Ag En 351 Farm Tractors.....	3	(2,3)
Agron 202 Soils.....	3	(2,3)
EE 305 Elec. Cir. & Machines.....	4	(3,3)
ME 302 Elem. Thermodynamics.....	3	(3,0)
ME 307 Mech. Engr. Lab.....	1	(0,3)
Mech 302 Statics.....	3	(3,0)
Approved Elective.....	3	

20

Ag En 304 Rur. Electrification.....	3	(2,3)
Bot 101 General Botany.....	3	(3,0)
Bot 103 General Botany Lab.....	1	(0,3)
Gov 301 Am. G. & Pol. Par.....	3	(3,0)
IE 201 Metal Processes.....	2	(1,3)
IE 302 Welding.....	2	(1,3)
Mech 304 Mech. of Matr.....	3	(3,0)
Approved Elective.....	3	

20

Suggested Electives:

AS or MS - Advanced.....	3	(4,1)
Arch 215 Building Materials.....	2	(2,0)
CE 203 Topog. Survey & Map.....	1	(0,3)
CE 319 Gen. Photogrammetry.....	3	(2,3)
DD 305 Kinematics of Mach.....	2	(1,3)
Mech 303 Kinetics.....	3	(3,0)

Suggested Electives:

Ag Ec 302 Farm Management.....	4	(3,3)
Agron 306 Forage Crops.....	4	(3,3)
AS or MS - Advanced.....	3	(4,1)
Arch 216 Building Design.....	2	(2,0)
DD 306 Machine Design.....	2	(1,3)
ME 306 Heat Power.....	3	(3,0)

SENIOR YEAR

Ag En 401 Soil & Wat. Con. En.....	3	(2,3)
Ag En 409 Seminar.....	1	(1,0)
Ag En 451 Farm Structures.....	3	(2,3)
Hist 301 U. S. since 1865.....	3	(3,0)
Mech 401 Fluid Mechanics.....	3	(3,0)
Mech 403 Fluid Mech. Lab.....	1	(0,3)
Approved Elective.....	3	

17

Ag En 402 Drain. & Irrig.....	3	(2,3)
Ag En 406 Adv. Farm Mach.....	3	(2,3)
Ag En 410 Seminar.....	1	(1,0)
Ag En 452 Adv. Farm Struct.....	3	(2,3)
Engl 301 Public Speaking.....	3	(3,0)
Hort 464 Food Preservation.....	3	(2,3)
Approved Elective.....	3	

19

Suggested Electives:

Ag Ec 401 Statistics.....	4	(3,3)
AS or MS - Advanced.....	3	(4,1)
IE 402 Metallurgy.....	3	(3,0)
Mech 464 Flow in Open Channels.....	2 or 3	(2 or 3,0)

Suggested Electives:

AS or MS - Advanced.....	3	(4,1)
Hort 452 Commercial Pomology.....	3	(2,3)
ME 414 Heat Power Lab.....	2	(0,6)
Mech 460 Hydrology.....	3	(3,0)

VOCATIONAL AGRICULTURAL EDUCATION

The majority of the graduates in Vocational Agricultural Education are employed to teach Vocational Agriculture in the public schools as sponsored by State Department and United States Office of Education. The curriculum, however, is well balanced with training in related fields and many graduates enter general farming and other agricultural educational or business occupations. Employment opportunities for graduates in Vocational Agricultural Education are excellent and for a number of years the demand for these graduates has exceeded the supply.

After a few years of teaching experience many graduates have advanced in the teaching profession or have entered related agricultural work such as farm credit, agricultural extension work, soil conservation and other government agencies.

VOCATIONAL AGRICULTURAL EDUCATION

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Agron 101 Farm Crops.....	3 (3,0)	AH 101 Types and Breeds.....	2 (2,0)
Chem 101 General Chemistry.....	4 (3,3)	AH 103 Types and Breeds Lab...1	(0,3)
Educ 101 Orientation.....	1 (1,0)	Bot 101 General Botany.....	3 (3,0)
Engl 101 Engl. Composition.....	3 (3,0)	Bot 103 General Botany Lab...1	(0,3)
Math 101 College Algebra.....	3 (3,0)	Chem 102 General Chemistry.....	4 (3,3)
Zool 101 General Zoology.....	3 (3,0)	Engl 102 Engl. Composition.....	3 (3,0)
Zool 103 General Zoology Lab...1	(0,3)	Math 102 Trigonometry.....	3 (3,0)
AS or MS - Basic.....	1 (2,1)	AS or MS - Basic.....	1 (2,1)
	19		18

SOPHOMORE YEAR

Ag Ch 220 Agric. Org. Chemistry..4	(3,3)	Ag Ec 201 Agric. Economics.....	3 (3,0)
Dairy 201 Dairying.....	8 (2,3)	Ag En 201 Farm Machinery.....	3 (2,3)
Engl 203 Survey of Engl. Lit.....	3 (3,0)	Agron 202 Soils.....	3 (2,3)
Gov 101 Am. Nat'l Gov't.....	3 (3,0)	Engl 204 Survey of Engl. Lit.....	3 (3,0)
Phys 201 General Physics.....	3 (3,0)	Hort 201 Gen. Horticulture.....	3 (2,3)
Phys 203 General Physics Lab...1	(0,3)	Phys 202 General Physics.....	3 (3,0)
AS or MS - Basic.....	1 (2,1)	Phys 204 General Physics Lab...1	(0,3)
	18	AS or MS - Basic.....	1 (2,1)
			20

JUNIOR YEAR

Ag En 301 Soil Conservation.....	3 (2,3)	Ag En 205 Farm Shop.....	3 (2,3)
Agron 301 Fertilizers.....	3 (3,0)	AH 301 Feeds and Feeding.....	3 (3,0)
Educ 301 Intro. to Educ.....	3 (2,3)	Bact 301 General Bacteriology...3	(3,0)
PH 301 Farm Poultry.....	3 (3,0)	Bact 303 Gen. Bact. Lab.....	1 (0,3)
PH 303 Farm Poultry Lab...1	(0,3)	Educ 302 Educ. Psychology.....	3 (3,0)
RS 301 Rural Sociology.....	3 (3,0)	Engl 301 Public Speaking.....	3 (3,0)
Approved Elective.....	3	Approved Social Studies.....	3
	19		19
Suggested Electives:		Suggested Electives:	
AS or MS - Advanced.....	3 (4,1)	Ag Ec 460 Agric. Finance.....	3 (3,0)
AH 310 Pork Production.....	2 (2,0)	AS or MS - Advanced.....	3 (4,1)
AH 314 Pork Prod. Lab.....	1 (0,3)	For 205 Farm Forestry.....	2 (2,0)
Ent 301 Elem. & Econ. Ent.....	3 (2,3)	For 207 Farm Forestry Lab...1	(0,3)
Hort 305 Plant Propagation.....	3 (2,3)	Hort 306 Landscape Design.....	3 (2,3)
		Hort 308 Landscape Des. Lab...3	(2,3)

SENIOR YEAR

Ag Ec 302 Farm Management.....4 (3,3)	Educ 401 Meth. in Ag. Ed.....3 (2,3)
Arch 409 Art Appreciation.....3 (3,0)	Educ 406 Dir. Teaching.....6 (0,18)
Bot 401 Plant Pathology.....2 (2,0)	Educ 422 Prob. in Adult Educ.....3 (2,3)
Bot 403 Plant Pathology Lab.....1 (0,3)	Educ 458 Health Educ. for Tchrs. 3 (3,0)
Hort 464 Food Preservation.....3 (2,3)	Approved Elective.....3
Music 402 Music Appreciation.....3 (3,0)	
Approved Elective.....3	

19

Suggested Electives:

Ag Ec 309 Marketing.....3 (2,3)
AS or MS — Advanced.....3 (4,1)
Hort 456 Truck Crops.....3 (2,3)
RS 459 The Rural Community.....3 (3,0)
Zool 402 Animal Anat. & Phys....3 (2,3)

18

Suggested Electives:

Ag Ec 451 Econ. of Cooperation...3 (3,0)
AS or MS — Advanced.....3 (4,1)
Hist 301 U. S. since 1865.....3 (3,0)
Soc 301 Intro. Sociology.....3 (3,0)
Zool 404 Diseases of Animals....3 (2,3)

PRE-FORESTRY

Students completing the two-year Pre-Forestry curriculum at Clemson become eligible to finish their professional studies in any forestry school of the country. Professional foresters are employed in various capacities by federal, state, or other public agencies, as well as by private concerns. Depending upon the field of specialization chosen, foresters may be engaged as managers and administrators of forest lands, technicians in wood-processing or wood-treating plants, or as technical specialists in extension. Others have jobs in fire protection, range management, recreational work, or in similar activities. Foresters earning advanced degrees find employment in academic work and in research conducted both by public and private agencies.

PRE-FORESTRY

FRESHMAN YEAR

First Semester

Bot 101 General Botany.....3 (3,0)
Bot 103 General Botany Lab.....1 (0,3)
Chem 101 General Chemistry.....4 (3,3)
DD 105 Engr. Drawing.....2 (0,6)
Engl 101 Engl. Composition.....3 (3,0)
Math 101 College Algebra.....3 (3,0)
AS or MS — Basic.....1 (2,1)

17

Second Semester

Chem 102 General Chemistry.....4 (3,3)
CE 101 Elementary Surveying.....2 (1,3)
DD 106 Engr. Drawing.....2 (0,6)
Engl 102 Engl. Composition.....3 (3,0)
Math 102 Trigonometry.....3 (3,0)
Zool 101 General Zoology.....3 (3,0)
Zool 103 Gen. Zool. Lab.....1 (0,3)
AS or MS — Basic.....1 (2,1)

19

SOPHOMORE YEAR

CE 201 Surveying.....2 (2,0)
CE 203 Topog. Survey. & Map....1 (0,3)
Engl 203 Survey of Engl. Lit....3 (3,0)
For 201 Introduction to Forestry. 2 (2,0)
For 203 Intro. to For. Lab.....1 (0,3)
Geol 201 Agric. Geology.....3 (3,0)
Phys 201 General Physics.....3 (3,0)
Phys 203 Gen. Phys. Lab.....1 (0,3)
AS or MS — Basic.....1 (2,1)

17

CE 202 Surveying.....2 (2,0)
Econ 201 Prin. of Economics....3 (3,0)
Engl 204 Survey of Engl. Lit....3 (3,0)
For 202 Dendrology.....1 (0,3)
For 204 Dendrology Lab.....1 (0,3)
Phys 202 General Physics.....3 (3,0)
Phys 204 Gen. Phys. Lab.....1 (0,3)
AS or MS — Basic.....1 (2,1)

17

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 should consider the specific requirements of the school he expects to attend in choosing elective courses. 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

FRESHMAN YEAR

<i>First Semester</i>	<i>Second Semester</i>
AH 101 Types and Breeds..... 2 (2,0)	Chem 102 General Chemistry.....4 (3,3)
AH 103 Types and Breeds Lab... 1 (0,3)	Engl 102 Engl. Composition.....3 (3,0)
Bot 101 General Botany..... 3 (3,0)	Hist 101 American History.....3 (3,0)
Bot 103 General Botany Lab... 1 (0,3)	Math 102 Trigonometry.....3 (3,0)
Chem 101 General Chemistry..... 4 (3,3)	Zool 101 General Zoology.....3 (3,0)
Engl 101 Engl. Composition.....3 (3,0)	Zool 103 Gen. Zool. Lab.....1 (0,3)
Math 101 College Algebra.....3 (3,0)	AS or MS - Basic.....1 (2,1)
AS or MS - Basic..... 1 (2,1)	

18

18

SOPHOMORE YEAR

Ag Ch 220 Agric. Org. Chemistry.. 4 (3,3)	Ag Ec 201 Agric. Economics.....3 (3,0)
Engl 203 Survey of Engl. Lit.....3 (3,0)	Agron 101 Farm Crops.....3 (3,0)
Phys 201 General Physics.....3 (3,0)	Bot 401 Plant Pathology.....2 (2,0)
Phys 203 General Physics Lab... 1 (0,3)	Bot 403 Plant Pathology Lab... 1 (0,3)
PH 301 Farm Poultry..... 3 (3,0)	Chem 215 Qual. Analysis.....4 (2,6)
PH 303 Farm Poultry Lab..... 1 (0,3)	Dairy 201 Dairying.....3 (2,3)
Zool 301 Advanced Zoology.....3 (2,3)	Engl 204 Survey of Engl. Lit.....3 (3,0)
AS or MS - Basic..... 1 (2,1)	AS or MS - Basic.....1 (2,1)

19

20

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 eight major curriculums leading to the degree of Bachelor of Science, which are as follows: Agricultural Chemistry, Arts and Sciences, Chemistry, Education, Industrial Education, Industrial Management, Industrial 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 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 possible fields of study, guidance in choosing an appropriate field of concentration, a list of approved electives, and additional information about the requirements for graduation in this school.

AGRICULTURAL CHEMISTRY

The curriculum in Agricultural Chemistry is designed to give the student a thorough understanding of the basic principles of chemistry and their application in the agricultural and biological sciences. The curriculum includes courses which are fundamental to both agriculture and chemistry. Opportunities exist for graduates in Agricultural Chemistry in agricultural experiment stations, governmental agencies, and in industries producing fertilizers, pesticides, foods and feeds.

AGRICULTURAL CHEMISTRY

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Bot 101 General Botany.....	3 (3,0)	Chem 104 General Chemistry.....	4 (3,3)
Bot 103 General Botany Lab.....	1 (0,3)	DD 102 Technical Drawing.....	1 (0,3)
Chem 101 General Chemistry.....	4 (3,3)	Engl 102 Engl. Composition.....	3 (3,0)
DD 101 Freehand Drawing.....	1 (0,3)	Math 104 Freshman Math.....	5 (5,0)
Engl 101 Engl. Composition.....	3 (3,0)	Zool 101 General Zoology.....	3 (3,0)
Math 103 Freshman Math.....	5 (5,0)	Zool 103 Gen. Zool. Lab.....	1 (0,3)
AS or MS - Basic.....	1 (2,1)	AS or MS - Basic.....	1 (2,1)
	18		18

SOPHOMORE YEAR

Chem 215 Qual. Analysis.....	4 (2,6)	Agron 202 Soils.....	3 (2,3)
Engl 203 Survey of Engl. Lit.....	3 (3,0)	Chem 216 Quan. Analysis.....	4 (2,6)
Geol 201 Agric. Geology.....	3 (3,0)	Engl 204 Survey of Engl. Lit.....	3 (3,0)
Phys 201 General Physics.....	3 (3,0)	Phys 202 General Physics.....	3 (3,0)
Phys 203 General Physics Lab.....	1 (0,3)	Phys 204 General Physics Lab.....	1 (0,3)
AS or MS - Basic.....	1 (2,1)	AS or MS - Basic.....	1 (2,1)
Approved Electives.....	4	Approved Electives.....	4
	19		19

JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Bact 301 General Bacteriology.....	3 (3,0)	Bot 352 Plant Physiology.....	3 (3,0)
Bact 303 Gen. Bacteriology Lab.....	1 (0,3)	Bot 354 Plant Physiology Lab.....	1 (0,3)
Chem 323 Organic Chemistry.....	4 (3,3)	Chem 324 Organic Chemistry.....	4 (3,3)
Engl 301 Public Speaking.....	3 (3,0)	Chem 339 Intro. to Phys. Chem.....	3 (3,0)
Approved Electives *.....	8	Zool 402 Animal Physiology.....	3 (2,3)
	19	Approved Electives *.....	6
			20

SENIOR YEAR

Ag Ch 411 Agric. Chemistry.....	4 (2,6)	Ag Ch 412 Agric. Chemistry.....	4 (2,6)
Ag Ch 421 Gen. Biochemistry.....	3 (3,0)	Ag Ch 422 Gen. Biochemistry.....	3 (3,0)
Approved Electives *.....	12	Chem 442 Chem. Literature.....	2 (1,3)
	19	Approved Electives *.....	9
			18

* Electives:

For the B.S. in Agricultural Chemistry, a student must elect 6 hours in German or French and 18 hours in History, English, Government, Economics, Sociology, Psychology, etc.

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. 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.

ARTS AND SCIENCES

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry.....	4 (3,3)
Engl 101 Engl. Composition.....	3 (3,0)
Hist 101 American History.....	3 (3,0)
Math 103 Freshman Math.....	5 (5,0)
Modern Language.....	3 (3,0)
AS or MS - Basic.....	1 (2,1)
<hr/>	
	19

Second Semester

Chem 102 General Chemistry.....	4 (3,3)
Engl 102 Engl. Composition.....	3 (3,0)
Hist 102 American History.....	3 (3,0)
Math 104 Freshman Math.....	5 (5,0)
Modern Language.....	3 (3,0)
AS or MS - Basic.....	1 (2,1)
<hr/>	
	19

SOPHOMORE YEAR

Bot 101 General Botany *.....	3 (3,0)
Bot 103 General Botany Lab.*.....	1 (0,3)
Engl 203 Survey of Engl. Lit.....	3 (3,0)
Modern Language.....	3 (3,0)
Phys 201 General Physics.....	3 (3,0)
Phys 203 General Physics Lab.....	1 (0,3)
AS or MS - Basic.....	1 (2,1)
Approved Elective.....	3
<hr/>	
	18

Engl 204 Survey of Engl. Lit.....	3 (3,0)
Modern Language.....	3 (3,0)
Phys 202 General Physics.....	3 (3,0)
Phys 204 General Physics Lab.....	1 (0,3)
Zool 101 General Zoology *.....	3 (3,0)
Zool 103 Gen. Zool. Lab.*.....	1 (0,3)
AS or MS - Basic.....	1 (2,1)
Approved Elective.....	3
<hr/>	
	18

JUNIOR YEAR

Engl 301 Public Speaking.....	3 (3,0)
Approved Electives.....	16
<hr/>	
	19

Approved Electives.....	19
<hr/>	
	19

SENIOR YEAR

Approved Electives.....	19
<hr/>	
	19

Approved Electives.....	19
<hr/>	
	19

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 or a combination of Economics with either Government or Sociology, English, History or a combination of History with either Government or Sociology, Mathematics, Physics, Modern Languages, Biological Sciences, and Chemistry.

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

(2) A minimum of twenty-four hours shall be taken in the primary field of concentration and fifteen hours in the secondary field. This work shall be on the Junior-Senior level except that Mathematics 203 and 204 may be used as part fulfillment of this requirement by a student whose field of concentration is Mathematics.

(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 eighteen hours of Education required by the State Board of Education.

(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 150. Students enrolled in the advanced ROTC program may use 12 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 dis-

tributed through industry and research institutions. The Chemistry Department is fully accredited by the American Chemical Society.

CHEMISTRY

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry.....	4 (3,3)
DD 101 Freehand Drawing.....	1 (0,3)
Engl 101 Engl. Composition.....	3 (3,0)
Ger 101 Elementary German.....	3 (3,0)
Math 103 Freshman Math.....	5 (5,0)
AS or MS - Basic.....	1 (2,1)

17

Second Semester

Chem 104 General Chemistry.....	4 (3,3)
DD 102 Technical Drawing.....	1 (0,3)
Engl 102 Engl. Composition.....	3 (3,0)
Ger 102 Elementary German.....	3 (3,0)
Math 104 Freshman Math.....	5 (5,0)
AS or MS - Basic.....	1 (2,1)

17

SOPHOMORE YEAR

Chem 215 Qual. Analysis.....	4 (2,6)
Engl 203 Survey of Engl. Lit.....	3 (3,0)
Math 203 Diff. Calculus.....	5 (5,0)
Phys 201 General Physics.....	3 (3,0)
Phys 203 General Physics Lab.....	1 (0,3)
AS or MS - Basic.....	1 (2,1)
Approved Electives °.....	3

20

Chem 216 Quan. Analysis.....	4 (2,6)
Engl 204 Survey of Engl. Lit.....	3 (3,0)
Math 204 Integral Calculus.....	5 (5,0)
Phys 202 General Physics.....	3 (3,0)
Phys 204 General Physics Lab.....	1 (0,3)
AS or MS - Basic.....	1 (2,1)
Approved Electives °.....	3

20

JUNIOR YEAR

Chem 323 Elem. Org. Chem.....	4 (3,3)
Chem 331 Physical Chemistry.....	5 (3,6)
Engl 301 Public Speaking.....	3 (3,0)
Approved Electives °.....	7

19

Chem 324 Elem. Org. Chemistry..	4 (3,3)
Chem 332 Physical Chemistry.....	5 (3,6)
Chem 442 Chem. Literature.....	2 (1,3)
Approved Electives °.....	8

19

SENIOR YEAR

Chem 401 Inorg. Chemistry.....	2 (2,0)
Chem 411 Instr. Analysis.....	3 (1,6)
Chem 421 Qual. Org. Analysis.....	3 (1,6)
Geol 306 Mineralogy.....	3 (2,3)
Approved Electives °.....	8

19

Chem 402 Inorg. Chemistry.....	3 (2,3)
Chem 472 Org. Synthesis.....	3 (1,6)
Approved Electives °.....	13

19

Suggested Electives:

AS or MS - Advanced.....	3 (4,1)
Ag Ch 421 Gen. Biochemistry.....	3 (3,0)
Bact 301 General Bacteriology.....	3 (3,0)
Bact 303 Gen. Bact. Lab.....	1 (0,3)
Chem 441 Glass Manipulation.....	2 (0,6)
Chem 443 Research Problems.....	3 (0,9)
Ger 201 Intermediate German.....	3 (3,0)
Math 305 Inter. Calculus.....	3 (3,0)
Phys 341 Elec. and Magn.....	3 (3,0)
Phys 343 Electricity Lab.....	1 (0,3)
Phys 451 Modern Physics.....	3 (3,0)

Suggested Electives:

AS or MS - Advanced.....	3 (4,1)
Chem 444 Research Problems.....	3 (0,9)
Chem 454 Inorganic Synthesis.....	2 (0,6)
Ger 202 Intermediate German.....	3 (3,0)
Math 306 Ord. Diff. Equations.....	3 (3,0)
Phys 452 Atom. & Nucl. Physics..	3 (3,0)

EDUCATION

The purpose of the curriculum in Education is to prepare teachers of general high school subjects. Emphasis is placed upon the training of teachers in mathematics and science. The offerings of the other departments of the college make possible a wide selection of subject-matter courses in biology, chemistry, mathematics, English,

° 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.

history, civics, and physics. The majority of graduates enter the teaching profession, although some engage in administrative work, recreation leadership, or athletic coaching in schools, textile communities, public parks and elsewhere.

Directed student teaching in several subjects in cooperation with the State Department of Education and school systems constitutes part of the training. Students may be required to live in a public school community for at least six weeks and to provide the necessary travel while engaged in this directed teaching.

Approval of electives by adviser is based on sequences appropriate to educational plan of the student.

EDUCATION

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry	4	(3,3)
DD 101 Freehand Drawing	1	(0,3)
Educ 101 Orientation	1	(1,0)
Engl 101 Engl. Composition	3	(3,0)
Hist 101 American History	3	(3,0)
Math 103 Freshman Math	5	(5,0)
AS or MS - Basic	1	(2,1)
	18	

Second Semester

Chem 102 General Chemistry	4	(3,3)
Engl 102 Engl. Composition	3	(3,0)
Gov 101 Am. Nat'l Gov't	3	(3,0)
Hist 102 American History	3	(3,0)
Math 104 Freshman Math	5	(5,0)
AS or MS - Basic	1	(2,1)
	19	

SOPHOMORE YEAR

Bot 101 General Botany	3	(3,0)
Bot 103 General Botany Lab	1	(0,3)
Econ 201 Prin. of Economics	3	(3,0)
Engl 203 Survey of Engl. Lit.	3	(3,0)
Phys 201 General Physics	3	(3,0)
Phys 203 General Physics Lab	1	(0,3)
AS or MS - Basic	1	(2,1)
Approved Electives	4	
	19	

Econ 202 Prin. of Economics	3	(3,0)
Engl 204 Survey of Engl. Lit.	3	(3,0)
Phys 202 General Physics	3	(3,0)
Phys 204 General Physics Lab	1	(0,3)
Zool 101 General Zoology	3	(3,0)
Zool 103 General Zoology Lab	1	(0,3)
AS or MS - Basic	1	(2,1)
Approved Electives	4	
	19	

JUNIOR YEAR

Bact 301 Gen. Bacteriology	3	(3,0)
Bact 303 Gen. Bact. Lab	1	(0,3)
Educ 305 Prin. of Ed.	3	(3,0)
Engl 301 Public Speaking	3	(3,0)
Soc 301 Intro. Sociology	3	(3,0)
Approved Electives	6	
	19	

Econ 312 Commercial Law	3	(3,0)
Educ 302 Educ. Psychology	3	(3,0)
RS 459 The Rural Community*	3	(3,0)
Zool 306 Game Management	2	(2,0)
Approved Electives	8	
	19	

SENIOR YEAR

Econ 301 Labor Problems*	3	(3,0)
Educ 424 Tech. of Teach.	3	(3,0)
Educ 458 Health Educ.	3	(3,0)
Gov 302 State and Local Gov.	3	(3,0)
Soc 402 The Family	3	(3,0)
Approved Electives	4	
	19	

Arch 409 Art Appreciation	3	(3,0)
Educ 332 Organ. Courses	3	(3,0)
Educ 412 Directed Teaching	6	(1,15)
Music 402 Music Appreciation	3	(3,0)
Approved Electives	3	
	18	

* Note: A student who desires to add 3 credits of work in the field (mathematics, sciences, English, or social studies) in which he plans to teach may omit Econ 301 or RS 459 if the desired work is approved by the faculty adviser.

INDUSTRIAL EDUCATION

The curriculum in Industrial Education is designed to prepare students to teach industrial subjects, industrial arts, drawing, manual training, and metal work in the high schools and to supervise the teaching of evening trade classes. Graduates become affiliated with high school industrial education departments as teachers, supervisors, and diversified-occupations specialists. Students who plan to teach in industrial communities may choose those electives in textiles, engineering, chemistry or agriculture for which they have the background, prerequisites and interests. Some graduates secure employment in industry in special training programs. Itinerant teacher training, for foremen and those who teach vocational classes in textile and other industrial plants, is offered in various parts of the state.

INDUSTRIAL EDUCATION

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry.....	4	(3,3)
DD 105 Engr. Drawing.....	2	(0,6)
Educ 101 Orientation.....	1	(1,0)
Engl 101 Engl. Composition.....	3	(3,0)
IE 101 Mfg. Processes.....	2	(0,6)
Math 103 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)
<hr/>		
	18	

Second Semester

Chem 102 General Chemistry.....	4	(3,3)
DD 106 Engr. Drawing.....	2	(0,6)
Engl 102 Engl. Composition.....	3	(3,0)
Math 104 Freshman Math.....	5	(5,0)
TM 101 Intro. to Textiles.....	3	(2,3)
AS or MS - Basic.....	1	(2,1)
<hr/>		
	18	

SOPHOMORE YEAR

Cr Ar 101 Pottery Materials.....	3	(2,3)
Engl 203 Survey of Engl. Lit.....	3	(3,0)
IE 201 Metal Processes.....	2	(1,3)
Phys 201 General Physics.....	3	(3,0)
Phys 203 General Physics Lab.....	1	(0,3)
Zool 101 General Zoology.....	3	(3,0)
Zool 103 General Zoology Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)
Approved Elective.....	2	
<hr/>		
	19	

Ag En 203 Ag. Engr. Problems.....	2	(1,3)
Bot 101 General Botany.....	3	(3,0)
Bot 103 General Botany Lab.....	1	(0,3)
Econ 201 Prin. of Economics.....	3	(3,0)
Engl 204 Survey of Engl. Lit.....	3	(3,0)
Phys 202 General Physics.....	3	(3,0)
Phys 204 General Physics Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)
Approved Elective.....	2	
<hr/>		
	19	

JUNIOR YEAR

Arch 215 Bldg. Materials.....	2	(2,0)
Educ 305 Prin. of Educ.....	3	(3,0)
Educ 307 Ind. Educ. Lab.....	2	(0,6)
EE 303 Basic Electricity.....	4	(3,3)
Hist 303 History of Civ.....	3	(3,0)
In Ar 303 Industrial Arts.....	2	(1,3)
Approved Elective.....	3	
<hr/>		
	19	

Arch 216 Building Design.....	2	(2,0)
Educ 302 Educ. Psychology.....	3	(3,0)
Educ 308 Ind. Educ. Lab.....	2	(0,6)
Engl 301 Public Speaking.....	3	(3,0)
Hist 304 History of Civ.....	3	(3,0)
In Ar 304 School Shop Mgt.....	2	(1,3)
IE 302 Welding.....	2	(1,3)
Approved Elective.....	3	
<hr/>		
	20	

SENIOR YEAR

First Semester

Arch 409 Art Appreciation.....	3 (3,0)
Educ 402 Directed Teaching.....	6 (1,15)
Educ 424 Tech. of Teaching.....	3 (3,0)
Educ 458 Health Education.....	3 (3,0)
Music 402 Music Appreciation.....	3 (3,0)
Approved Elective.....	3

21

Second Semester

Arch 408 Industrial Design.....	1 (0,3)
Bact 301 Gen. Bacteriology.....	3 (3,0)
Bact 303 Gen. Bact. Lab.....	1 (0,3)
Educ 332 Org. of Courses.....	3 (3,0)
Educ 421 Coord. Methods.....	2 (2,0)
Soc 301 Intro. Sociology.....	3 (3,0)
Approved Elective.....	3

16

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

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry.....	4 (3,3)
DD 105 Engr. Drawing.....	2 (0,6)
Engl 101 Engl. Composition.....	3 (3,0)
Hist 101 American History.....	3 (3,0)
Math 103 Freshman Math.....	5 (5,0)
AS or MS - Basic.....	1 (2,1)

18

Second Semester

Chem 102 General Chemistry.....	4 (3,3)
DD 106 Engr. Drawing.....	2 (0,6)
Engl 102 Engl. Composition.....	3 (3,0)
Hist 102 American History.....	3 (3,0)
Math 104 Freshman Math.....	5 (5,0)
AS or MS - Basic.....	1 (2,1)

18

SOPHOMORE YEAR

Acct 201 Prin. of Acct.....	3 (3,0)
Econ 201 Prin. of Economics.....	3 (3,0)
Engl 203 Survey of Engl. Lit.....	3 (3,0)
Gov 101 Amer. Nat'l Govt.....	3 (3,0)
IE 101 Mfg. Processes.....	2 (0,6)
Phys 201 General Physics.....	3 (3,0)
Phys 203 Gen. Phys. Lab.....	1 (0,3)
AS or MS - Basic.....	1 (2,1)

19

Acct 202 Prin. of Acct.....	3 (3,0)
Econ 202 Prin. of Economics.....	3 (3,0)
Engl 204 Survey of Engl. Lit.....	3 (3,0)
IE 201 Metal Processes.....	2 (1,3)
Soc 301 Intro. Sociology.....	3 (3,0)
Phys 202 General Physics.....	3 (3,0)
Phys 204 Gen. Phys. Lab.....	1 (0,3)
AS or MS - Basic.....	1 (2,1)

19

JUNIOR YEAR

EE 303 Basic Electricity.....	4 (3,3)
IM 301 Cost Accounting.....	3 (3,0)
Math 303 Statistics.....	3 (3,0)
Psych 301 General Psychology.....	3 (3,0)
Approved Electives.....	6

19

Econ 314 Inter. Econ. Theory.....	3 (3,0)
Engl 301 Public Speaking.....	3 (3,0)
IM 302 Ind. Management.....	4 (4,0)
IM 304 Quality Control.....	3 (3,0)
Approved Electives.....	6

19

SENIOR YEAR

First Semester

Cr En 303 Ceramic Products.....	2 (2,0)
Econ 301 Labor Problems.....	3 (3,0)
Econ 312 Commercial Law.....	3 (3,0)
IE 303 Job Evaluation and Wage Incentive.....	3 (3,0)
Soc 405 Industrial Sociology.....	3 (3,0)
Approved Electives.....	5

19

Second Semester

IE 204 Engineering Matr.....	2 (2,0)
IE 305 Work Simplification and Standardization.....	3 (3,0)
IM 402 Prod., Plan. and Control.....	4 (4,0)
IM 404 Industrial Econ.....	3 (3,0)
Approved Electives.....	7

19

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 groups for the purpose of emphasizing a particular phase of the training. The student must select an additional 12 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 the 12 semester hours of advanced military courses to meet this requirement.

Group I

TC 301 Textile Chemistry.....	2 (2,0)
TC 302 Textile Chemistry.....	2 (2,0)
TC 303 Textile Chemistry Lab.....	1 (0,3)
TC 304 Textile Chemistry Lab.....	1 (0,3)
WD 201 Fabric Design.....	3 (2,3)
WD 309 Knitting.....	1 (0,3)
WD 412 Knitted Garment Mfg.....	2 (1,3)

Group II

Ag Ec 309 Agricultural Marketing.....	3 (2,3)
Ag Ec 451 Econ. of Cooperation.....	3 (3,0)
Ag Ec 452 Agricultural Policy.....	3 (3,0)
Ag Ec 456 Agricultural Prices.....	3 (3,0)
Ag Ec 460 Agricultural Finance.....	3 (3,0)
Dairy 352 Advertising & Mkg.....	3 (3,0)

Group III

Ag Ec 352 Public Finance.....	3 (3,0)
Ag Ec 456 Prices.....	3 (3,0)

Econ 302 Money & Banking.....	3 (3,0)
Econ 313 Commercial Law.....	3 (3,0)
Econ 412 International Trade.....	3 (3,0)
Hist 406 History of Manufacturing in the United States.....	3 (3,0)

Group IV

Econ 412 International Trade.....	3 (3,0)
Geog 301 Economic Geography.....	3 (3,0)
Geog 302 Political Geography.....	3 (3,0)
Completion of the Second Year of One Foreign Language.....	6 (6,0)

Group V

CE 417 City Planning.....	2 (2,0)
CE 421 Contracts.....	2 (2,0)
IE 402 Metallurgy.....	3 (2,3)
Math 203 Differential Calculus.....	5 (5,0)
Math 204 Integral Calculus.....	5 (5,0)
Math 304 Statistics.....	3 (3,0)

INDUSTRIAL PHYSICS

The curriculum in Industrial Physics is intended to give a thorough knowledge of the fundamental principles of physics to students who plan to enter industrial laboratories. 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.

In this curriculum the student is required to take a number of technical subjects in addition to his physics courses. Other technical courses may be taken as electives if approved by the student's class adviser. For further information about the curriculum consult the *Handbook for Students Majoring in the School of Arts and Sciences*.

INDUSTRIAL PHYSICS

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry	4	(3,3)
DD 105 Engr. Drawing	2	(0,6)
Engl 101 Engl. Composition	3	(3,0)
Math 103 Freshman Math	5	(5,0)
AS or MS - Basic	1	(2,1)
Approved Electives	2	(2,0)

17

Second Semester

Chem 102 General Chemistry	4	(3,3)
Engl 102 Engl. Composition	3	(3,0)
Hist 102 American History	3	(3,0)
Math 104 Freshman Math	5	(5,0)
AS or MS - Basic	1	(2,1)
Approved Electives	2	(2,0)

18

SOPHOMORE YEAR

Engl 203 Survey of Engl. Lit.	3	(3,0)
Math 203 Diff. Calculus	5	(5,0)
Phys 205 Lab. Techniques	1	(0,3)
Phys 211 Gen. Phys. for Engr.	4	(4,0)
Phys 213 Gen. Phys. Lab.	1	(0,3)
AS or MS - Basic	1	(2,1)
Approved Electives	4	

19

Engl 204 Survey of Engl. Lit.	3	(3,0)
Math 204 Integral Calculus	5	(5,0)
Phys 212 Gen. Phys. for Engr.	4	(4,0)
Phys 214 Gen. Phys. Lab.	1	(0,3)
AS or MS - Basic	1	(2,1)
Approved Electives	4	

18

JUNIOR YEAR

EE 307 Basic Elect. Engr.	3	(3,0)
EE 309 Elec. Engr. Lab.	1	(0,3)
Math 306 Ord. Diff. Equations	3	(3,0)
Phys 312 Heat & Kinetic Th.	3	(3,0)
Phys 314 Experimental Heat	1	(0,3)
Phys 341 Elec. & Magnetism	3	(3,0)
Phys 343 Electricity Lab.	1	(0,3)
Approved Electives	4	

19

EE 308 Basic Elect. Engr.	3	(3,0)
EE 310 Elect. Engr. Lab.	1	(0,3)
Engl 301 Public Speaking	3	(3,0)
Math (as approved)	3	
Phys 321 Mechanics	4	(4,0)
Phys 323 Mechanics Lab.	1	(0,3)
Approved Electives	4	

19

SENIOR YEAR

EE 320 Electronics	4	(3,3)
Hist 303 Hist. of Civ.	3	(3,0)
Phys 441 Electromagnetism	3	(3,0)
Phys 451 Modern Physics	3	(3,0)
Phys 453 Exp. in Mod. Phys.	1	(0,3)
Approved Electives	6	

20

EE (as approved)	3	
Hist 304 Hist. of Civ.	3	(3,0)
Phys 432 Light	4	(4,0)
Phys 434 Light Lab.	1	(0,3)
Approved Electives	9	

20

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. Clemson College, however, will award the degree of Bachelor of Science in Pre-Medicine to a student who, after completing all requirements of the first three years of the Pre-Medical course, is graduated from a medical college approved by the American Medical Association. Requirements of the first three

Note: A student may take four of the courses: Chemistry 215, 216, 323, 324, 331, 332 instead of the electrical engineering courses.

years would be three-fourths of the number of hours required for graduation, including required courses for the first three years.

The total number of hours required for graduation is 150. Students enrolled in the advanced ROTC program may use 12 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

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry.....	4	(3,3)
Engl 101 Engl. Composition.....	3	(3,0)
Fr 101 Elementary French.....	3	(3,0)
or Ger 101 Elementary Ger.....	3	(3,0)
Hist 101 American History.....	3	(3,0)
Math 103 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)

19

Second Semester

Chem 104 General Chemistry.....	4	(3,3)
Engl 102 Engl. Composition.....	3	(3,0)
Fr 102 Elementary French.....	3	(3,0)
or Ger 102 Elementary Ger.....	3	(3,0)
Hist 102 American History.....	3	(3,0)
Math 104 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)

19

SOPHOMORE YEAR

Chem 215 Qual. Analysis.....	4	(2,6)
DD 101 Freehand Drawing.....	1	(0,3)
Engl 203 Survey of Engl. Lit.....	3	(3,0)
Fr 201 Intermediate French.....	3	(3,0)
or Ger 201 Intermediate Ger.....	3	(3,0)
Phys 201 General Physics.....	3	(3,0)
Phys 203 General Physics Lab.....	1	(0,3)
Zool 101 General Zoology.....	3	(3,0)
Zool 103 Gen. Zool. Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)

20

Bot 101 General Botany.....	3	(3,0)
Bot 103 General Botany Lab.....	1	(0,3)
Chem 216 Quan. Analysis.....	4	(2,6)
Engl 204 Survey of Engl. Lit.....	3	(3,0)
Fr 202 Intermediate French.....	3	(3,0)
or Ger 202 Intermediate Ger.....	3	(3,0)
Phys 202 General Physics.....	3	(3,0)
Phys 204 General Physics Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)

19

JUNIOR YEAR

Chem 323 Elem. Org. Chem.....	4	(3,3)
Econ 201 Prin. of Economics.....	3	(3,0)
Engl 301 Public Speaking.....	3	(3,0)
Approved Electives.....	8	

18

Chem 324 Elem. Org. Chem.....	4	(3,3)
Econ 202 Prin. of Economics.....	3	(3,0)
Approved Electives.....	11	

18

SENIOR YEAR

Bact 301 Gen. Bacteriology.....	3	(3,0)
Bact 303 Gen. Bact. Lab.....	1	(0,3)
Hist 303 Hist. of Civ.....	3	(3,0)
Psych 301 Gen. Psychology.....	3	(3,0)
Zool 301 Advanced Zoology.....	3	(2,3)
Approved Electives.....	6	

19

Hist 304 Hist. of Civ.....	3	(3,0)
Psych 302 Social Psychology.....	3	(3,0)
Soc 301 Intro. Sociology.....	3	(3,0)
Zool 302 Embryology.....	3	(2,3)
Approved Electives.....	6	

18

SCHOOL OF ENGINEERING

Six curriculums are offered under the School of Engineering including Architecture, Ceramic Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, and Mechanical Engineering. The curriculums in Agricultural, Ceramic, Civil, Electrical, and Mechanical Engineering are accredited by the Engineers' Council for Professional Development. The Department of Architecture is on the list of accredited schools of architecture issued by the National Architectural Accrediting Board. The curriculum in Agricultural Engineering is jointly administered by the School of Engineering and the School of Agriculture and may be found in this catalog under the School of Agriculture.

While 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.

An engineer in any branch should understand the methods of fabrication of machine parts and the possibilities and limitations of various methods. For this reason shop courses are included in all engineering curriculums. These courses are not manual training in nature and do not deal with the acquisition of specific skills.

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.

AGRICULTURAL ENGINEERING

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

curriculum may be found in this catalog under the School of Agriculture.

ARCHITECTURE

The development of man's physical environment is the field of the architect, embracing fundamental considerations of function, structure and beauty. The scope of professional problems may vary from the design of furniture to complex buildings and urban planning. To best serve society, the architect should retain a progressive attitude and utilize expanding developments in the field. He should have a broad background in the social sciences and 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 much of the student's time and enabling him to creatively employ 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 Department is a member of the Association of Collegiate Schools of Architecture.

The architectural library adjoins the design studios of the school, and is strengthened annually from purchases by the central college library and through gifts and bequests. The collection includes books, domestic and foreign periodicals, slides and other visual aids.

A varied schedule of visiting lecturers and critics is provided each year to supplement regular class offerings of the Department. The Clemson Architectural Foundation has been formed to assist in this and other phases of the program of architectural education.

ARCHITECTURE

FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Arch 101 Basic Design.....	3 (0,9)	Arch 102 Basic Design.....	3 (0,9)
Arch 105 Visual Arts Lab.....	2 (0,6)	Arch 106 Visual Arts Lab.....	2 (0,6)
Arch 115 Basic Construction.....	2 (1,3)	Arch 116 Basic Construction.....	2 (1,3)
Arch 121 Intro. to Arch.....	2 (2,0)	Arch 122 Intro. to Arch.....	2 (2,0)
Engl 101 Engl. Composition.....	3 (3,0)	Engl 102 Engl. Composition.....	3 (3,0)
Math 103 Freshman Math.....	5 (5,0)	Math 104 Freshman Math.....	5 (5,0)
AS or MS — Basic.....	1 (2,1)	AS or MS — Basic.....	1 (2,1)
<hr/>		<hr/>	
18		18	

SECOND YEAR

Arch 201 Arch. Design.....	3 (0,9)	Arch 202 Arch. Design.....	3 (0,9)
Arch 207 Visual Arts Lab.....	1 (0,3)	Arch 208 Visual Arts Lab.....	1 (0,3)
Arch 217 Elem. Constr.....	1 (1,0)	Arch 218 Elem. Construction.....	2 (1,3)
Engl 203 Survey of Engl. Lit.....	3 (3,0)	Engl 204 Survey of Engl. Lit.....	3 (3,0)
Math 203 Diff. Calculus.....	5 (5,0)	Math 204 Integral Calculus.....	5 (5,0)
Phys 211 Gen. Phys. for Engr.....	4 (4,0)	Phys 202 General Physics.....	3 (3,0)
Phys 213 Gen. Phys. Lab.....	1 (0,3)	Phys 204 Gen. Phys. Lab.....	1 (0,3)
AS or MS — Basic.....	1 (2,1)	AS or MS — Basic.....	1 (2,1)
<hr/>		<hr/>	
19		19	

THIRD YEAR

First Semester

Arch 301 Arch. Design.....	4(0,12)
Arch 307 Visual Arts Lab.....	1 (0,3)
Arch 309 History of Arch.....	3 (3,0)
CE 101 Elementary Surveying....	2 (1,3)
Engl 301 Public Speaking.....	3 (3,0)
Mech 302 Statics.....	3 (3,0)
Approved Elective.....	3

19

Second Semester

Arch 302 Arch. Design.....	4(0,12)
Arch 310 History of Arch.....	3 (3,0)
Arch 318 Intermediate Constr....	2 (0,6)
Chem 101 General Chemistry [*] ...	4 (3,3)
or Elective.....	3
CE 309 Trusses.....	1 (0,3)
Mech 304 Mech. of Matr.....	3 (3,0)
Approved Elective.....	3

19 or 20

OPTION NO. 1

FOURTH YEAR

Arch 401 Arch. Design.....	6(0,18)
Arch 411 History of Arch.....	2 (2,0)
Arch 415 Structural Methods.....	2 (2,0)
CE 310 Structures.....	3 (2,3)
Approved Electives.....	6 or 5 ^{**}

19 or 18^{**}

Arch 402 Arch. Design.....	6(0,18)
Arch 406 Visual Arts Lab.....	1 (0,3)
Arch 418 Construction.....	2 (2,0)
CE 409 Reinf. Concrete.....	4 (3,3)
Approved Electives.....	6

19

FIFTH YEAR

Arch 451 Arch. Design.....	6(0,18)
Arch 461 Town and Reg. Plan.....	3 (1,6)
Arch 465 Advanced Constr.....	2 (1,3)
Arch 471 Mech. Plant.....	2 (1,3)
Arch 475 Arch. Office Practice....	2 (2,0)
Approved Elective.....	3

18

Arch 452 Thesis.....	6(0,18)
Arch 462 Town and Reg. Plan.....	3 (1,6)
Arch 468 Advanced Construction..	2 (0,6)
Arch 472 Mech. Plant.....	2 (1,3)
Arch 476 Arch. Office Practice....	2 (2,0)
Approved Elective.....	3

18

OPTION NO. 2

FOURTH YEAR

Arch 411 History of Arch.....	2 (2,0)
Arch 415 Struct. Methods.....	2 (2,0)
CE 310 Structures.....	3 (2,3)
CE 414 Soil Mechanics.....	3 (2,3)
Geol 406 Engr. Geology.....	3 (2,3)
Approved Electives.....	6 or 5 [*]

19 or 18^{*}

Arch 406 Visual Arts Lab.....	1 (0,3)
Arch 428 Working Drawings.....	3 (0,9)
CE 402 Struct. Analysis.....	2 (2,0)
CE 409 Reinf. Concrete.....	4 (3,3)
Mech 401 Fluid Mechanics.....	3 (3,0)
Approved Electives.....	6

19

FIFTH YEAR

Arch 461 Town and Reg. Plan.....	3 (1,6)
Arch 465 Advanced Constr.....	2 (1,3)
Arch 471 Mechanical Plant.....	2 (1,3)
Arch 475 Arch. Office Practice....	2 (2,0)
CE 420 Concrete Mixes.....	1 (0,3)
CE 452 Struct. Analysis.....	2 (2,0)
Approved Electives.....	6

18

Arch 462 Town and Reg. Plan.....	3 (1,6)
Arch 472 Mechanical Plant.....	2 (1,3)
Arch 476 Arch. Office Practice....	2 (2,0)
Arch 478 Structural Thesis.....	6(0,18)
CE 412 Reinf. Conc. Design.....	2 (1,3)
Approved Elective.....	3

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 this list must be approved in writing by the department head.

* Chem 101 required for students not having one unit of high school chemistry.

** For students required to take Chem 101.

CERAMIC ENGINEERING

The ceramic industries have as their raw materials the non-metallic minerals other than fuel. These minerals constitute over 90 percent 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 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

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry.....	4 (3,3)
DD 107 Engr. Drawing.....	2 (0,6)
Engl 101 Engl. Composition.....	3 (3,0)
IE 101 Mfg. Processes.....	2 (0,6)
or CE 101 Elem. Surveying.....	2 (1,3)
Math 103 Freshman Math.....	5 (5,0)
AS or MS - Basic.....	1 (2,1)

17

Second Semester

Chem 104 General Chemistry.....	4 (3,3)
CE 101 Elem. Surveying.....	2 (1,3)
or IE 101 Mfg. Processes.....	2 (0,6)
DD 108 Engr. Drawing.....	2 (0,6)
Engl 102 Engl. Composition.....	3 (3,0)
Math 104 Freshman Math.....	5 (5,0)
AS or MS - Basic.....	1 (2,1)

17

SOPHOMORE YEAR

Cr En 201 Intro. to Cr. En.....	2 (2,0)
Engl 203 Survey of Engl. Lit.....	3 (3,0)
Math 203 Diff. Calculus.....	5 (5,0)
Phys 211 Gen. Phys. for Engr.....	4 (4,0)
Phys 213 Phys. Lab.....	1 (0,3)
AS or MS - Basic.....	1 (2,1)
Approved Elective.....	3 (3,0)

19

Cr En 202 Ceramic Materials.....	3 (3,0)
Engl 204 Survey of Engl. Lit.....	3 (3,0)
Math 204 Integral Calculus.....	5 (5,0)
Mech 302 Statics.....	3 (3,0)
Phys 212 Gen. Phys. for Engr.....	4 (4,0)
Phys 214 Gen. Phys. Lab.....	1 (0,3)
AS or MS - Basic.....	1 (2,1)

20

JUNIOR YEAR

Cr En 301 Drying and Firing.....	4 (3,3)
Chem 335 Physical Chemistry.....	3 (3,0)
EE 307 Basic Elect. Engr.....	3 (3,0)
Geol 406 Engr. Geology.....	3 (2,3)
Mech 303 Kinetics.....	3 (3,0)
Approved Elective.....	3

19

Cr En 305 Thermo-Chemical Cer.....	5 (3,6)
Chem 336 Physical Chemistry.....	2 (2,0)
EE 308 Basic Elect. Engr.....	3 (3,0)
EE 310 Elect. Engr. Lab.....	1 (0,3)
Geol 306 Mineralogy.....	3 (2,3)
Mech 304 Mech. of Matr.....	3 (3,0)
Approved Elective.....	3

20

SENIOR YEAR

Cr En 403 Glasses.....	3 (3,0)
Cr En 405 Plant Design.....	2 (0,6)
Cr En 406 Cr Project.....	2 (0,6)
Geol 307 Optical Mineralogy.....	3 (2,3)
ME 302 Elem. Thermodynamics.....	3 (3,0)
ME 307 Mech. Engr. Lab.....	1 (0,3)
Approved Elective.....	6

20

Cr En 402 Ceramic Bodies.....	3 (3,0)
Cr En 408 Plant Design.....	2 (0,6)
Cr En 418 Process Control.....	3 (3,0)
Engl 301 Public Speaking.....	3 (3,0)
Technical Elective.....	4
Approved Elective.....	3

18

6 credits of electives are to be taken in the humanistic-social field, while 4 credits of technical electives are required. The other 12 credits of electives are to be selected to give a logical sequence of courses in a secondary field of concentration. 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 this list must be approved in writing by the department head.

CHEMICAL ENGINEERING

The curriculum 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 everchanging 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 principle tasks, the design and operation 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

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry.....	4	(3,3)
DD 107 Engr. Drawing.....	2	(0,6)
Engl 101 Engl. Composition.....	3	(3,0)
IE 101 Mfg. Processes.....	2	(0,6)
or CE 101 Elem. Surveying.....	2	(1,3)
Math 103 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)

17

Second Semester

Chem 104 General Chemistry.....	4	(3,3)
CE 101 Elem. Surveying.....	2	(1,3)
or IE 101 Mfg. Processes.....	2	(0,6)
DD 108 Engr. Drawing.....	2	(0,6)
Engl 102 Engl. Composition.....	3	(3,0)
Math 104 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)

17

SOPHOMORE YEAR

ChE 202 Intro. Chem. Engr.....	2	(1,3)
Chem 215 Qual. Analysis.....	4	(2,6)
Engl 203 Survey of Engl. Lit.....	3	(3,0)
Math 203 Diff. Calculus.....	5	(5,0)
Phys 211 Gen. Phys. for Engr.....	4	(4,0)
Phys 213 Gen. Phys. Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)

20

Chem 216 Quan. Analysis.....	4	(2,6)
Engl 204 Survey of Engl. Lit.....	3	(3,0)
Math 204 Integral Calculus.....	5	(5,0)
Mech 302 Statics.....	3	(3,0)
Phys 212 Gen. Phys. for Engr.....	4	(4,0)
Phys 214 Gen. Phys. Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)

21

JUNIOR YEAR

ChE 301 Prin. Chem. Engr.....	3	(3,0)
Chem 323 Elem. Org. Chemistry.....	4	(3,3)
Chem 337 Physical Chemistry.....	4	(3,3)
Math 306 Diff. Equations.....	3	(3,0)
Mech 304 Mech. of Matr.....	3	(3,0)
Approved Elective.....	3	

20

ChE 302 Prin. Chem. Engr.....	3	(3,0)
ChE 306 Unit Operations.....	1	(0,3)
ChE 330 Chem. Engr. Thermo.....	2	(2,0)
Chem 324 Elem. Organic Chem.....	4	(3,3)
Chem 338 Physical Chemistry.....	4	(3,3)
Approved Electives.....	6	

20

SENIOR YEAR

First Semester

ChE 401 Prin. Chem. Engr.	3 (3,0)
ChE 407 Unit Operations	2 (0,6)
ChE 411 Chem. Engr. Lib. Matr.	1 (1,0)
ChE 430 Chem. Engr. Thermo.	3 (3,0)
EE 307 Basic Elec. Engr.	3 (3,0)
Approved Electives	6

18

Second Semester

ChE 409 Plant Design	2 (0,6)
ChE 412 Thesis	2 (0,6)
EE 308 Basic Elect. Engr.	3 (3,0)
EE 310 Elect. Engr. Lab.	1 (0,3)
IE 402 Metallurgy	3 (2,3)
Approved Electives	6

17

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 this list 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 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. All surveying courses with the exception of CE 101, Elementary Surveying, are given during this camp.

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

CIVIL ENGINEERING

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry.....	4	(3,3)
DD 107 Engr. Drawing.....	2	(0,6)
Engl 101 Engl. Composition.....	3	(3,0)
IE 101 Mfg. Processes.....	2	(0,6)
or CE 101 Elem. Surveying.....	2	(1,3)
Math 103 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)

17

Second Semester

Chem 102 General Chemistry.....	4	(3,3)
CE 101 Elem. Surveying.....	2	(1,3)
or IE 101 Mfg. Processes.....	2	(0,6)
DD 108 Engr. Drawing.....	2	(0,6)
Engl 102 Engl. Composition.....	3	(3,0)
Math 104 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)

17

SOPHOMORE YEAR

CE 205 C. E. Problems.....	1	(0,3)
Econ 201 Prin. of Economics.....	3	(3,0)
Engl 203 Survey of Engl. Lit.....	3	(3,0)
Math 203 Diff. Calculus.....	5	(5,0)
Phys 211 Gen. Phys. for Engr.....	4	(4,0)
Phys 213 Gen. Phys. Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)

18

CE 317 Materials of Constr.....	2	(2,0)
Engl 204 Survey of Engl. Lit.....	3	(3,0)
Math 204 Integral Calculus.....	5	(5,0)
Mech 302 Statics.....	3	(3,0)
Phys 212 Gen. Phys. for Engr.....	4	(4,0)
Phys 214 Gen. Phys. Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)

19

SUMMER SURVEY CAMP

CE 301 Surveying.....	3	(2,3)
-----------------------	---	-------

CE 305 Route Surveying.....	3	(2,3)
-----------------------------	---	-------

JUNIOR YEAR

CE 307 Roads and Pavements.....	3	(2,3)
or Math 306 Diff. Equations.....	3	(3,0)
CE 309 Trusses.....	1	(0,3)
EE 305 Elect. Cir. and Mach.....	4	(3,3)
Engl 301 Public Speaking.....	3	(3,0)
Mech 304 Mech. of Matr.....	3	(3,0)
Mech 305 Mech. of Matr. Lab.....	1	(0,3)
Approved Elective.....	3	

18

CE 306 Prin. of Sanitation.....	2	(2,0)
CE 310 Structures.....	3	(2,3)
Geol 406 Engr. Geology.....	3	(2,3)
ME 302 Elem. Thermodynamics.....	3	(3,0)
Mech 303 Kinetics.....	3	(3,0)
Approved Electives.....	6	

20

SENIOR YEAR

CE 401 Struct. Design.....	3	(2,3)
CE 409 Reinf. Concrete.....	4	(3,3)
Mech 401 Fluid Mech.....	3	(3,0)
Mech 403 Fluid Mech. Lab.....	1	(0,3)
Approved Electives.....	6	

17

CE 410 Mun. & San. Engr.....	3	(2,3)
CE 414 Soil Mech.....	3	(2,3)
CE 422 Engr. Ethics.....	3	(3,0)
Approved Electives.....	9	

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 this 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 ad-

dition 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, while 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.

All students who have taken EE 214 in the second semester, 1955-1956, or later, will follow the new curriculum as published in this catalog. Those who completed EE 212 (in the old curriculum) in the summer of 1955 or earlier, will follow the old curriculum as published in the 1953-1954 catalog. Students not covered by the above cases must make arrangements with the department head to determine their complete program.

ELECTRICAL ENGINEERING

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry	4 (3,3)
DD 107 Engr. Drawing	2 (0,6)
Engl 101 Engl. Composition	3 (3,0)
IE 101 Mfg. Processes	2 (0,6)
or CE 101 Elem. Surveying	2 (1,3)
Math 103 Freshman Math.	5 (5,0)
AS or MS - Basic	1 (2,1)

17

Second Semester

Chem 102 General Chemistry	4 (3,3)
CE 101 Elem. Surveying	2 (1,3)
or IE 101 Mfg. Processes	2 (0,6)
DD 108 Engr. Drawing	2 (0,6)
Engl 102 Engl. Composition	3 (3,0)
Math 104 Freshman Math.	5 (5,0)
AS or MS - Basic	1 (2,1)

17

SOPHOMORE YEAR

Econ 201 Prin. of Economics	3 (3,0)
Engl 203 Survey of Engl. Lit.	3 (3,0)
IE 201 Metal Processes	2 (1,3)
Math 203 Diff. Calculus	5 (5,0)
Phys 211 Gen. Phys. for Engr.	4 (4,0)
Phys 213 Gen. Phys. Lab.	1 (0,3)
AS or MS - Basic	1 (2,1)

19

EE 214 Elec. Cir. & Fields	3 (3,0)
Engl 204 Survey of Engl. Lit.	3 (3,0)
Math 204 Integral Calculus	5 (5,0)
Mech 302 Statics	3 (3,0)
Phys 216 Gen. Phys. for El. Engr.	4 (4,0)
Phys 214 Gen. Phys. Lab.	1 (0,3)
AS or MS - Basic	1 (2,1)

20

JUNIOR YEAR

First Semester

EE 311 D. C. Machinery.....	4	(3,3)
EE 313 Elec. Measurements.....	3	(2,3)
EE 315 A. C. Circuits.....	3	(3,0)
Engl 301 Public Speaking.....	3	(3,0)
Math 306 Ord. Diff. Equations.....	3	(3,0)
Approved Elective.....	3	

19

Second Semester

EE 316 A. C. Circuits.....	4	(3,3)
EE 320 Electronics.....	4	(3,3)
ME 305 Engr. Thermodynamics.....	3	(3,0)
ME 309 Mechanical Lab.....	1	(0,3)
Mech 303 Kinetics.....	3	(3,0)
Approved Elective.....	3	

18

SENIOR YEAR

EE 411 A. C. Machinery.....	5	(3,6)
EE 415 Advanced Circuits.....	3	(3,0)
ME 306 Engr. Thermodynamics.....	3	(3,0)
ME 310 Mechanical Lab.....	1	(0,3)
Technical Electives.....	5	
Approved Elective.....	3	

20

EE 412 A. C. Machinery.....	4	(3,3)
Hist 301 U. S. since 1865.....	3	(3,0)
ME 420 Administration.....	3	(3,0)
Mech 304 Mech. of Matr.....	3	(3,0)
Technical Electives.....	4	
Approved Elective.....	3	

20

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 this 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 sequence of humanistic-social courses continues throughout the curriculum.

Mechanical Engineering graduates work with the production and application of power from fuel and water, in research, and in design, development, construction and application of machines used in manufacturing, as well as in the management of power industries and manufacturing plants. In addition to the power companies and large electric and manufacturing concerns where many graduates are employed, opportunities are numerous in the automotive, aeronautical, railroad, air-conditioning and refrigeration industries.

Students who have passed ME 211 may complete their program under the curriculum in the 1953-54 catalog.

MECHANICAL ENGINEERING

FRESHMAN YEAR

*First Semester**Second Semester*

Chem 101 General Chemistry.....	4	(3,3)
DD 107 Engr. Drawing.....	2	(0,6)
Engl 101 Engr. Composition.....	3	(3,0)
IE 101 Mfg. Processes.....	2	(0,6)
or CE 101 Elem. Surveying.....	2	(1,3)
Math 103 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)

17

Chem 102 General Chemistry.....	4	(3,3)
CE 101 Elem. Surveying.....	2	(1,3)
or IE 101 Mfg. Processes.....	2	(0,6)
DD 108 Engr. Drawing.....	2	(0,6)
Engl 102 Engr. Composition.....	3	(3,0)
Math 104 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)

17

SOPHOMORE YEAR

Econ 201 Prin. of Economics.....	3	(3,0)
Engl 203 Survey of Engr. Lit.....	3	(3,0)
IE 201 Metal Processes.....	2	(1,3)
or ME 213 Engr. Problems.....	2	(1,3)
Math 203 Diff. Calculus.....	5	(5,0)
Phys 211 Gen. Phys. for Engr.....	4	(4,0)
Phys 213 Gen. Phys. Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)

19

Engl 204 Survey of Engr. Lit.....	3	(3,0)
Math 204 Integral Calculus.....	5	(5,0)
ME 213 Engr. Problems.....	2	(1,3)
or IE 201 Metal Processes.....	2	(1,3)
Mech 302 Statics.....	3	(3,0)
Phys 212 Gen. Phys. for Engr.....	4	(4,0)
Phys 214 Gen. Phys. Lab.....	1	(0,3)
AS or MS - Basic.....	1	(2,1)

19

JUNIOR YEAR

Engl 301 Public Speaking.....	3	(3,0)
Math 306 Diff. Equations.....	3	(3,0)
ME 311 Engr. Thermodynamics.....	3	(3,0)
ME 313 ME Measurements Lab.....	1	(0,3)
Mech 303 Kinetics.....	3	(3,0)
Mech 304 Strength of Matr.....	3	(3,0)
Approved Elective.....	3	

19

DD 308 Mechanisms and Kinematics of Mach.....	3	(2,3)
EE 307 Basic Elect. Engr.....	3	(3,0)
EE 309 Elect. Engr. Lab.....	1	(0,3)
ME 308 Heat Transfer.....	2	(2,0)
ME 312 Engr. Thermodynamics.....	3	(3,0)
ME 314 Mech. Engr. Lab.....	1	(0,3)
Mech 401 Fluid Mechanics.....	3	(3,0)
Approved Elective.....	3	

19

SENIOR YEAR

DD 401 Fund. of Machine Design.....	3	(3,0)
EE 308 Basic Elect. Engr.....	3	(3,0)
EE 310 Elect. Engr. Lab.....	1	(0,3)
IE 402 Metallurgy.....	3	(2,3)
ME 411 Gas Power.....	3	(3,0)
ME 413 Mech. Engr. Lab.....	1	(0,3)
ME 429 Air Conditioning.....	3	(3,0)
Approved Electives.....	3	

20

DD 402 Design of Mach. Elements.....	3	(2,3)
ME 412 Steam Power.....	3	(3,0)
ME 414 Mech. Engr. Lab.....	1	(0,3)
ME 420 Engr. Administration.....	3	(3,0)
ME 430 Air Conditioning Design.....	1	(0,3)
or ME 417 Engr. Analysis.....	1	(0,3)
or DD 408 Thesis.....	1	(0,3)
Approved Electives.....	9	

20

* At least one of the following must be chosen as an approved elective:

Hist 301—History of the United States since 1865; Govt 301—American Government and Political Parties; Psych 301—General Psychology. Other approved electives may be general or technical, as approved by adviser. 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 this list must be approved in writing by the department head.

SCHOOL OF TEXTILES

The great majority of the textile corporations which produce textiles on the cotton system 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.

There is a trend in the demand for some graduates with training in the basic engineering sciences; therefore, the Textile Engineering course has been modified to meet this demand.

The Clemson Textile School now offers three courses leading to the degree of Bachelor of Science: Textile Chemistry, Textile Engineering, and Textile Manufacturing. Knitting is offered as an option under Textile Manufacturing.

The Sarrinc Foundation. The funds in this foundation have been contributed by the textile companies in the State and now total nearly one million dollars, which figure is expected to be exceeded soon. The interest from this large fund is used exclusively for the School of Textiles at Clemson, primarily to improve the teaching staff. Under the present plans, 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 percent of the member's full salary (to 100 percent 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. Plans for the use of additional funds are to be announced later.

TEXTILE CHEMISTRY

The work of textile chemists includes the various phases of textile coloring, bleaching, printing, dyeing, and finishing of textile yarns and fabrics, as well as the manufacture and sale of dyestuffs. Graduates have positions such as bleachery chemist, dye foreman, designer, laboratory chemist, textile chemist, research assistant, and sales representative.

TEXTILE CHEMISTRY

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry.....	4 (3,3)
DD 105 Engr. Drawing.....	2 (0,6)
Engl 101 Engl. Composition.....	3 (3,0)
Gov 101 Am. Nat'l Gov't.....	3 (3,0)
Math 103 Freshman Math.....	5 (5,0)
AS or MS - Basic.....	1 (2,1)

18

Second Semester

Chem 104 General Chemistry.....	4 (3,3)
DD 106 Engr. Drawing.....	2 (0,6)
Engl 102 Engl. Composition.....	3 (3,0)
Math 104 Freshman Math.....	5 (5,0)
TM 101 Intro. to Textiles.....	3 (2,3)
AS or MS - Basic.....	1 (2,1)

18

SOPHOMORE YEAR

Chem 215 Qual. Analysis.....	4 (2,6)
Engl 203 Survey of Engl. Lit.....	3 (3,0)
Math 203 Diff. Calculus.....	5 (5,0)
Phys 201 General Physics.....	3 (3,0)
Phys 203 General Physics Lab.....	1 (0,3)
WD 201 Fabric Design.....	3 (2,3)
AS or MS - Basic.....	1 (2,1)

20

Chem 216 Quan. Analysis.....	4 (2,6)
Econ 201 Prin. of Economics.....	3 (3,0)
Engl 204 Survey of Engl. Lit.....	3 (3,0)
Math 204 Integral Calculus.....	5 (5,0)
Phys 202 General Physics.....	3 (3,0)
Phys 204 General Physics Lab.....	1 (0,3)
AS or MS - Basic.....	1 (2,1)

20

JUNIOR YEAR

Chem 335 Physical Chemistry.....	3 (3,0)
Engl 301 Public Speaking.....	3 (3,0)
TC 305 Textile Chemistry.....	4 (4,0)
TC 307 Textile Chemistry Lab.....	1 (0,3)
TM 403 Textile Management.....	3 (3,0)
YM 305 Cotton Grading.....	1 (0,3)
Approved Elective *.....	3

18

Chem 336 Physical Chemistry.....	2 (2,0)
Econ 312 Commercial Law.....	3 (3,0)
TC 306 Textile Chemistry.....	4 (4,0)
TC 308 Textile Chemistry Lab.....	1 (0,3)
TC 447 Chem. Proc. Tex.....	3 (3,0)
TC 449 Chem. Proc. Tex. Lab.....	1 (0,3)
TM 462 Textile Microscopy.....	2 (1,3)
Approved Elective *.....	3

19

SENIOR YEAR

Econ 301 Labor Problems.....	3 (3,0)
TC 442 Thesis.....	2 (0,6)
TC 452 Chem. Proc. Tex.....	4 (4,0)
TC 454 Chem. Proc. Tex. Lab.....	1 (0,3)
TC 455 Cellulose Chemistry.....	3 (3,0)
TM 464 Phys. Tex. Testing.....	2 (1,3)
Approved Elective *.....	3

18

TC 410 Color Matching.....	1 (0,3)
TC 430 Textile Finishing.....	3 (1,6)
TC 456 Syn. Fibers & Finishing.....	3 (3,0)
TM 454 Motion and Time Study.....	3 (2,3)
Approved Electives *.....	9

19

Other Suggested Electives:

Ag Ec 401 Statistics.....	4 (3,3)
AS or MS - Advanced.....	3 (4,1)
ChE 301 Prin. Chem. Engr.....	3 (3,0)
ChE 305 Unit Operations.....	1 (0,3)
ChE 405 Unit Operations.....	1 (0,3)
Chem 401 Inorganic Chemistry.....	2 (2,0)
EE 305 Elec. Circuits & Mach.....	4 (3,3)
Ent 301 Elem. & Econ. Ent.....	3 (2,3)
Ent 401 Econ. Entomology.....	3 (2,3)
Geog 301 Economic Geography.....	3 (3,0)

Other Suggested Electives:

Ag Ec 352 Public Finance.....	3 (3,0)
AS or MS - Advanced.....	3 (4,1)
ChE 302 Prin. Chem. Engr.....	3 (3,0)
ChE 306 Unit Operations.....	1 (0,3)
Chem 472 Organic Synthesis.....	3 (1,6)
Geog 302 Political Geography.....	3 (3,0)
Geol 306 Mineralogy.....	3 (2,3)

* Approved Electives:

Any courses beyond those required in Economics, English, Mathematics, Physics, Psychology, Sociology, and Textiles; any courses on the Junior-Senior level in Government, History and Religion except Gov 301; French or Spanish if four semesters completed; German if two semesters completed; Arch 409, Music 402.

TEXTILE ENGINEERING

Students following the Textile Engineering curriculum receive instruction in basic textile courses for a total of thirty-six college credits; the remainder are in Physics, Mathematics, English, Economics, and Mechanical and Electrical Engineering. Graduates in this curriculum are prepared to enter the research and development fields which are being emphasized by the textile industry, as well as the field of production. They are also prepared to go forward with post-graduate studies.

TEXTILE ENGINEERING

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Chem 101 General Chemistry.....	4 (3,3)	Chem 102 General Chemistry.....	4 (3,3)
DD 105 Engr. Drawing.....	2 (0,6)	CE 101 Elem. Surveying.....	2 (1,3)
Engr 101 Engr. Composition.....	3 (3,0)	or IE 101 Mfg. Processes.....	2 (0,6)
IE 101 Mfg. Processes.....	2 (0,6)	DD 106 Engr. Drawing.....	2 (0,6)
or CE 101 Elem. Surveying.....	2 (1,3)	Engr 102 Engr. Composition.....	3 (3,0)
Math 103 Freshman Math.....	5 (5,0)	Math 104 Freshman Math.....	5 (5,0)
AS or MS - Basic.....	1 (2,1)	AS or MS - Basic.....	1 (2,1)

17

17

SOPHOMORE YEAR

Engr 203 Survey of Engr. Lit.....	3 (3,0)	Engr 204 Survey of Engr. Lit.....	3 (3,0)
IE 201 Metal Processes.....	2 (1,3)	Math 204 Integral Calculus.....	5 (5,0)
Math 203 Diff. Calculus.....	5 (5,0)	Mech 302 Statics.....	3 (3,0)
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)
YM 201 Blend. & Cleaning.....	3 (2,3)	YM 202 Carding.....	3 (2,3)
AS or MS - Basic.....	1 (2,1)	AS or MS - Basic.....	1 (2,1)

19

20

JUNIOR YEAR

DD 305 Kinematics of Mach.....	2 (1,3)	DD 306 Machine Design.....	2 (1,3)
EE 307 Basic Elect. Engr.....	3 (3,0)	EE 308 Basic Elect. Engr.....	3 (3,0)
EE 309 Elect. Engr. Lab.....	1 (0,3)	EE 310 Elect. Engr. Lab.....	1 (0,3)
Mech 303 Kinetics.....	3 (3,0)	Mech 304 Mech. of Matr.....	3 (3,0)
WD 201 Fabric Design.....	3 (2,3)	WD 202 Fabric Design.....	2 (1,3)
WD 205 Cam Loom Mech.....	1 (0,3)	WD 206 Cam Loom Mech.....	2 (1,3)
YM 301 Roving Frames.....	3 (2,3)	YM 302 Spinning.....	3 (2,3)
Approved Elective*.....	3	Approved Elective*.....	3

19

19

SENIOR YEAR

Econ 201 Prin. of Economics.....	3 (3,0)	Econ 312 Commercial Law.....	3 (3,0)
Engr 301 Public Speaking.....	3 (3,0)	ME 306 Engr. Thermodynamics.....	3 (3,0)
ME 305 Engr. Thermodynamics.....	3 (3,0)	ME 310 Mechanical Lab.....	1 (0,3)
ME 309 Mechanical Lab.....	1 (0,3)	TM 454 Motion and Time Study.....	3 (2,3)
TM 401 Textile Costing.....	5 (3,6)	TM 462 Textile Microscopy.....	2 (1,3)
TM 403 Textile Management.....	3 (3,0)	TM 464 Phys. Tex. Testing.....	2 (1,3)
Approved Elective*.....	3	WD 305 Dobby & Box Mech.....	1 (0,3)
		Approved Elective*.....	3

21

18

* Approved Electives:

Any courses beyond those required in Economics, English, Mathematics, Mechanics, Physics, Psychology, Sociology, and Textiles; any courses on the Junior-Senior level in Government, History and Religion; French or Spanish if four semesters completed; German if two semesters completed; Arch 409, Music 402.

First Semester

Other Suggested Electives:

Ag Ec 401 Statistics.....	4	(3,3)
AS or MS - Advanced.....	3	(4,1)
Geog 301 Economic Geography.....	3	(3,0)
Gov 301 Am. C. & Pol. Par.....	3	(3,0)
ME 421 Gas Engines.....	3	(3,0)
ME 423 Gas Engine Design.....	1	(0,3)
ME 429 Heating and Vent.....	2	(2,0)
ME 431 Heating and Vent. Des.....	1	(0,3)

Second Semester

Other Suggested Electives:

Ag Ec 352 Public Finance.....	3	(3,0)
AS or MS - Advanced.....	3	(4,1)
EE 320 Electronics.....	4	(3,3)
Geog 302 Political Geography.....	3	(3,0)
IE 302 Welding.....	2	(1,3)
IE 402 Metallurgy.....	3	(3,0)
ME 430 Air Conditioning.....	2	(2,0)
ME 432 Air Conditioning Des.....	1	(0,3)
ME 434 Refrigeration.....	2	(2,0)
WD 404 Throwing.....	3	(2,3)

TEXTILE MANUFACTURING

The Textile Manufacturing curriculum is followed by those textile students who intend to enter the production and management phases of the textile industry. Those students who desire training in the knitting field may elect to take the Knitting Option under Textile Manufacturing during the Junior and Senior years. The curriculum shows that they receive sixty-five of their college credits in subjects taught in the Textile School and that they are well prepared for rapid advancement in textile plants. It is recommended that all textile undergraduates find work in textile mills during summer vacations. This experience always aids them in their upperclass textile courses and also allows the students to make contacts with possible future employers.

TEXTILE MANUFACTURING

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry.....	4	(3,3)
DD 105 Engr. Drawing.....	2	(0,6)
Engl 101 Engr. Composition.....	3	(3,0)
Gov 101 Am. Nat'l Gov't.....	3	(3,0)
Math 103 Freshman Math.....	5	(5,0)
AS or MS - Basic.....	1	(2,1)

18

Second Semester

Chem 102 General Chemistry.....	4	(3,3)
DD 106 Engr. Drawing.....	2	(0,6)
Engl 102 Engr. Composition.....	3	(3,0)
Math 104 Freshman Math.....	5	(5,0)
TM 101 Intro. to Textiles.....	3	(2,3)
AS or MS - Basic.....	1	(2,1)

18

SOPHOMORE YEAR

Econ 201 Prin. of Economics.....	3	(3,0)
Engl 203 Survey of Engr. Lit.....	3	(3,0)
Phys 201 General Physics.....	3	(3,0)
Phys 203 General Physics Lab.....	1	(0,3)
WD 201 Fabric Design.....	3	(2,3)
WD 205 Cam Loom Mech.....	1	(0,3)
YM 201 Blend. & Cleaning.....	3	(2,3)
AS or MS - Basic.....	1	(2,1)

18

Econ 202 Prin. of Economics.....	3	(3,0)
Engl 204 Survey of Engr. Lit.....	3	(3,0)
Phys 202 General Physics.....	3	(3,0)
Phys 204 General Physics Lab.....	1	(0,3)
WD 202 Fabric Design.....	2	(1,3)
WD 206 Cam Loom Mech.....	2	(1,3)
YM 202 Carding.....	3	(2,3)
AS or MS - Basic.....	1	(2,1)

18

JUNIOR YEAR

Engl 301 Public Speaking.....	3	(3,0)
TC 301 Textile Chemistry.....	2	(2,0)
TC 303 Textile Chemistry Lab.....	1	(0,3)
WD 301 Fab. Struc. & Des.....	2	(1,3)
WD 305 Dobby & Box Mech.....	1	(0,3)
WD 309 Knitting.....	1	(0,3)
YM 301 Roving Frames.....	3	(2,3)
Approved Electives.....	6	

19

Econ 312 Commercial Law.....	3	(3,0)
TC 302 Textile Chemistry.....	2	(2,0)
TC 304 Textile Chemistry Lab.....	1	(0,3)
WD 302 Fab. Analysis.....	2	(1,3)
WD 306 Jacquard Mech.....	2	(1,3)
YM 302 Spinning.....	3	(2,3)
YM 305 Cotton Marketing.....	1	(0,3)
YM 306 Combing.....	2	(1,3)
Approved Elective.....	3	

19

SENIOR YEAR

First Semester

Econ 401 Accounting.....	3 (3,0)
TC 401 Chem. Proc. Tex.....	2 (2,0)
TC 403 Chem. Proc. Tex. Lab.....	1 (0,3)
TM 401 Textile Costing.....	5 (3,6)
TM 403 Textile Management.....	3 (3,0)
WD 401 Warp Preparation.....	2 (1,3)
Approved Elective *.....	3

19

Second Semester

Soc 301 Intro. Sociology.....	3 (3,0)
TC 402 Chem. Proc. Tex.....	2 (2,0)
TC 404 Chem. Proc. Tex. Lab.....	1 (0,3)
TM 454 Motion and Time Study.....	3 (2,3)
TM 462 Textile Microscopy.....	2 (1,3)
TM 464 Phys. Tex. Testing.....	2 (1,3)
WD 402 Fabric Development.....	2 (1,3)
Approved Electives *.....	6

21

* Approved Electives:

Any courses beyond those required in Economics, English, Mathematics, Physics, Psychology, Sociology, and Textiles; any courses on the Junior-Senior level in Education (if nine credits completed, accepting credit for lower course if it is a prerequisite), Government, History and Religion except Gov 301; French or Spanish if four semesters completed; German if two semesters completed; Arch 409, Music 402.

Other Suggested Electives:

Ag Ec 401 Statistics.....	4 (3,3)
AS or MS - Advanced.....	3 (4,1)
Geog 301 Economic Geography.....	3 (3,0)

Other Suggested Electives:

Ag Ec 352 Public Finance.....	3 (3,0)
AS or MS - Advanced.....	3 (4,1)
Geog 302 Political Geography.....	3 (3,0)
WD 404 Throwing.....	3 (2,3)

KNITTING OPTION

This option for the Junior and Senior years has been set up under Textile Manufacturing to embrace every phase of the knitting industry. Students will study such fields as circular body knitting and design, circular hosiery knitting and design, flat and warp knitting, full fashioned knitting, knit garment manufacture, dyeing and finishing of knit goods, and knitting mill practices. Because of the selected courses in this curriculum, students will not only be prepared for the knitting industry, but for almost any other field in textiles, especially yarn manufacturing.

JUNIOR YEAR

First Semester

Engl 301 Public Speaking.....	3 (3,0)
Soc 301 Intro. Sociology.....	3 (3,0)
TC 301 Textile Chemistry.....	2 (2,0)
TC 303 Textile Chemistry Lab.....	1 (0,3)
WD 309 Knitting.....	1 (0,3)
WD 311 Flat Knitting Mech.....	2 (1,3)
YM 301 Roving Frames.....	3 (2,3)
YM 305 Cotton Marketing.....	1 (0,3)
Approved Elective.....	3

19

Second Semester

Econ 312 Commercial Law.....	3 (3,0)
TC 302 Textile Chemistry.....	2 (2,0)
TC 304 Textile Chemistry Lab.....	1 (0,3)
WD 310 Adv. Hos. Knitting.....	3 (2,3)
WD 312 Knit. Design & Anal.....	2 (1,3)
YM 302 Spinning.....	3 (2,3)
YM 306 Combing.....	2 (1,3)
Approved Elective.....	3

19

SENIOR YEAR

Econ 401 Accounting.....	3 (3,0)
TC 401 Chem. Proc. Tex.....	2 (2,0)
TC 403 Chem. Proc. Tex. Lab.....	1 (0,3)
TM 401 Textile Costing.....	5 (3,6)
TM 454 Motion and Time Study.....	3 (2,3)
WD 411 Full Fashion Knit.....	2 (1,3)
Approved Electives.....	4

20

TC 402 Chem. Proc. Tex.....	2 (2,0)
TC 404 Chem. Proc. Tex. Lab.....	1 (0,3)
TM 403 Textile Management.....	3 (3,0)
TM 462 Textile Microscopy.....	2 (1,3)
TM 464 Phys. Tex. Testing.....	2 (1,3)
WD 410 Cir. Body Knit.....	2 (1,3)
WD 412 Knit. Garment Mfg.....	2 (1,3)
Approved Electives.....	6

20

DESCRIPTION OF COURSES

This list of courses includes for each course the catalog number, title of course, credit in semester hours, class and 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

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 Accounting 201 with special attention to corporation and partnership accounting with emphasis on adjustment procedures and the analysis of financial statements. *Prerequisite:* Acct 201.

AGRICULTURAL CHEMISTRY

MR. DINWIDDIE

MR. MAULDIN

AG CH 220—AGRICULTURAL ORGANIC CHEMISTRY—4 cr. (3 and 3)

A study of 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.

AG CH 411—AGRICULTURAL CHEMISTRY—4 cr. (2 and 6)

This course is designed to acquaint the student with the chemistry of substances and processes commonly encountered in all phases of agriculture. The chemistry of fertilizers, pesticides, feeds and other similar products is discussed. Attention is also given to the biochemical processes involved in food preservation and water sanitation. The laboratory work deals largely with analytical procedures concerned with agricultural chemicals and products. *Prerequisite:* Analytical and organic chemistry.

AG CH 412—AGRICULTURAL CHEMISTRY—4 cr. (2 and 6)

A continuation of Ag Ch 411.

AG CH 421—GENERAL BIOCHEMISTRY—3 cr. (3 and 0)

This course includes 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 is included in the course. *Prerequisite:* Organic and physical chemistry.

AG CH 422—GENERAL BIOCHEMISTRY—3 cr. (3 and 0)

A continuation of Ag Ch 421.

AGRICULTURAL ECONOMICS

MR. AULL

MR. SIMPSON, MR. STEPP, MR. BAUKNIGHT, MR. TODD

AG EC 201—INTRODUCTION TO AGRICULTURAL ECONOMICS—3 cr. (3 and 0)

A study of the economics of agricultural production and marketing and of the economic principles that are important in analyzing economic phenomena having direct or indirect effects upon the incomes and living standards of farm people.

AG EC 302—FARM MANAGEMENT—4 cr. (3 and 3)

A study of 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:* Ag Ec 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—AGRICULTURAL MARKETING—3 cr. (2 and 3)

A general survey of the field of marketing with emphasis on marketing agencies, functions, channels, methods and institutions. Special emphasis is given to the marketing of foods and fibers. *Prerequisite:* Ag Ec 201 or Econ 201 and 202.

AG EC 352—PUBLIC FINANCE—3 cr. (3 and 0)

A study of the principles of financing government, sources of public revenue, objects of public expenditure, 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:* Ag Ec 201 or its equivalent.

AG EC 361—MARKETING LIVESTOCK AND LIVESTOCK PRODUCTS—3 cr. (3 and 0)

The course deals generally with all the steps and conditions attending the marketing of livestock and livestock products. Included are such things

as selling methods at the farm, practices and methods of buyers and slaughterers, activities of the government in marketing, marketing news services, methods by which prices are determined, psychology and preferences of consumers. *Prerequisite:* Junior standing.

AG EC 401—STATISTICS—4 cr. (3 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)

This course covers the general and special principles and practices of business organization and management that govern the successful operation of cooperative business enterprises. Major emphasis is placed upon cooperative selling, processing, purchasing and service enterprises that serve farm people. *Prerequisite:* Ag Ec 201 or Econ 201 or 202.

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)

This course includes a review of the basic theory of price under competitive conditions and various modifications thereof; a study of the nature, measurement and causes of daily, seasonal and cyclical fluctuations in the prices of farm commodities; an analysis of geographical price relationships; a study of the nature, function and behavior of future markets; and statistical analysis of demand and supply. *Prerequisite:* Ag Ec 201 or Econ 201 and 202.

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:* Ag Ec 201 or Econ 201 and 202.

AG EC 462—APPLIED STATISTICS—3 cr. (2 and 3)

A study of the 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 505—ECONOMIC THEORY—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—RESEARCH—3 cr.

AG EC 592—RESEARCH—3 cr.

AGRICULTURAL ENGINEERING

MR. SNELL

MR. DUNKELBERG, MR. ROGERS, MR. CRAIG, *MR. MCLEOD,
MR. MURPHY, MR. WHITESIDES

AG EN 201—FARM MACHINERY—3 cr. (2 and 3)

A study of tractors and farm machinery common to the Southeast. The course is designed to familiarize the agricultural student with the functional operation of modern farm machinery and its adaptation to the major farming operations. A special effort is made to give a thorough understanding of the possible uses and the limitations of machines so that wise selection and proper use may be made.

AG EN 202—FARM EQUIPMENT—3 cr. (2 and 3)

This course is designed to introduce the engineering elements of farm machinery. Following a study of such basic subjects as materials of construction and transmission of power, a study is made of the implements and machines involved in the major farming operations. Emphasis is placed on the analytical approach to the function, construction and operation of the machines. *Prerequisite:* Math 103 and 104 and enrollment in Phys 211.

AG EN 203—AGRICULTURAL ENGINEERING PROBLEMS—2 cr. (1 and 3)

A detailed study of the slide rule to familiarize the student with all the scales and their efficient use. Logical approach to all types of problems is stressed. Neatness and accuracy in all computations are emphasized and a review of the application of trigonometric functions and logarithms is made. *Prerequisite:* Math 103 and 104.

AG EN 205—FARM SHOP—3 cr. (2 and 3)

A course designed to train students in the proper use and maintenance of hand shop tools, and introduction to power tools. Emphasis throughout is placed on correct methods, together with the underlying reasons. Principal topics: carpentry, painting and finishing, soldering and sheet metal work, farm concrete work, cold-metal work, pipe work and simple plumbing, fencing and home water supply systems. A course for agricultural students.

AG EN 207—FARM MECHANICS—2 cr. (1 and 3)

A course in which the student acquires certain methods and skills in the use of tools and equipment pertinent to farm electrification, structures and machines. Designed for agricultural engineering majors. *Prerequisite:* Math 103, 104 and IE 101.

* On leave.

AG EN 301—SOIL CONSERVATION—3 cr. (2 and 3)

The application of engineering and agronomic principles 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 101 and 102.

AG EN 304—RURAL ELECTRIFICATION—3 cr. (2 and 3)

Distribution and utilization of electrical power on farms and rural areas. Special emphasis is given to adequate wiring and adaptation of electrical appliances to the farm home and in the production and primary processing of farm commodities. *Prerequisite:* EE 305 and Junior standing.

AG EN 351—FARM TRACTORS—3 cr. (2 and 3)

The application of engineering fundamentals to the farm tractor with emphasis upon the power unit and its accessories. Topics include thermodynamic principles of operation, power and its measurement, carburetion, ignition, and cooling systems, clutches, transmissions, brakes and final drives. Consideration is given to the tractor chassis, traction, stability, hitches and other factors which make the tractor a functionally sound agricultural machine. *Prerequisite:* Ag En 202, Phys 212, enrollment in ME 302, and Junior Standing.

AG EN 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:* Ag En 201.

AG EN 360—FARM AND HOME UTILITIES—3 cr. (2 and 3)

A course for seniors and graduate students in agricultural 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 systems are emphasized. *Prerequisite:* Junior standing.

AG EN 401—SOIL AND WATER CONSERVATION ENGINEERING—3 cr. (2 and 3)

A detailed study of the causes, extent and control of erosion. Embodies study of elementary meteorology and hydrology, critical runoffs, design and construction of water-control structures such as terraces, outlet channels, diversions, dams, spillways, flumes and drop inlets. *Prerequisite:* CE 101, Agron 202 and enrollment in Mech 401.

AG EN 402—DRAINAGE AND IRRIGATION—3 cr. (2 and 3)

A study of surface and sub-surface drainage principles, including flow of water through soils, channel flow and drainage requirements. The design and construction of open ditch and tile drainage system. 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:* Ag En 401 and Mech 401.

AG EN 406—ADVANCED FARM MACHINERY—3 cr. (2 and 3)

This course is designed for seniors majoring in agricultural engineering. Design, development, manufacturing, advertising and sales of farm machinery are considered. *Prerequisite:* Ag En 202 and 351.

AG EN 409—AGRICULTURAL ENGINEERING SEMINAR—1 cr. (1 and 0)

This course is provided to acquaint the student with research technique in the agricultural engineering field. *Prerequisite:* Senior standing in Agricultural Engineering.

AG EN 410—AGRICULTURAL ENGINEERING SEMINAR—1 cr. (1 and 0)

A continuation of Ag En 409.

AG EN 451—FARM STRUCTURES—3 cr. (2 and 3)

A study of the materials and structural requirements of farm buildings, and the analysis and design of structural members. Environmental fundamentals and construction methods are also covered. *Prerequisite:* ME 302 and Mech 304.

AG EN 452—ADVANCED FARM STRUCTURES—3 cr. (2 and 3)

A continuation of Ag En 451 covering the environmental and functional requirements of farm structures for housing livestock, crop processing and storage. Problems involve planning and design, and the preparation of working drawings and specifications. Emphasis is placed on economics and process efficiency. *Prerequisite:* Ag En 451.

AG EN 501—SPECIAL PROBLEMS IN AGRICULTURAL ENGINEERING—3 cr. (3 and 0)**AG EN 511—DESIGN OF FARM MACHINERY—3 cr. (3 and 0)****AG EN 512—DESIGN OF FARM MACHINERY—3 cr. (2 and 3)****AG EN 522—ADVANCED DRAINAGE AND IRRIGATION—3 cr. (3 and 0)****AG EN 591—RESEARCH—3 cr.****AG EN 592—RESEARCH—3 cr.**

AGRONOMY

MR. COLLINGS

MR. COOPER, MR. J. W. JONES, MR. BOYKIN, MR. C. M. JONES, MR. PAGE,
MR. SHELLEY, MR. CRADDOCK

AGRON 101—FARM CROPS—3 cr. (3 and 0)

A fundamental course in general field crops including the study of the origin, botanical characteristics, varieties, breeding, soil adaptation, fertilizer requirements, and cultural methods employed in the production of the most important field crops of South Carolina and the United States.

AGRON 202—SOILS—3 cr. (2 and 3)

A study of the basic principles of soil physics, soil fertility, and soil biology as they apply to the production of crops. The course deals with the soil as

a reservoir for water, a medium for root development, a source of nutrients, and a home for organisms. *Prerequisite:* Chem 101 and 102.

AGRON 301—FERTILIZERS AND MANURES—3 cr. (3 and 0)

A study of the sources, mining and manufacturing, composition, physical characteristics, and use of fertilizers and manures. A detailed study is also made of crop responses to fertilizer use. *Prerequisite:* Agron 202.

AGRON 302—GENETICS—3 cr. (2 and 3)

A general course in the basic principles of genetics. Examples illustrating the fundamentals of heredity and variation are given for plants and animals, including man.

AGRON 306—FORAGE CROPS AND WEED IDENTIFICATION AND CONTROL—4 cr. (3 and 3)

A course dealing with the characteristics of the various forage crops, with emphasis being laid on those grown in this state. These crops are studied with special reference to their adaptations, growing, harvesting, composition, value and uses, and also with reference to their place in our cropping system. *Prerequisite:* Agron 101.

AGRON 401—ADVANCED CROP LABORATORY—1 cr. (0 and 3)

A study of the laboratory procedures used in field crop laboratories, followed by a detailed study of the morphological characters, classification, and yielding capacities of important varieties of various farm crops. In addition, attention is given to the study of seed certification, seed laws, market grades of grains, seed germination and purity tests, and weed identification.

AGRON 405—PLANT BREEDING—3 cr. (2 and 3)

The purpose of this course is to present the application of the basic principles of genetics to the improvement of crop plants. Principal topics studied include the genetic and cytogenetic basis of plant breeding, mode of reproduction in relation to breeding methods, techniques in selfing and crossing, methods of breeding, inheritance in the major farm crops, and biometrical methods. *Prerequisite:* Agron 302.

AGRON 409—COTTON AND TOBACCO—3 cr. (3 and 0)

A study of the 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 101.

AGRON 451—MINERAL NUTRITION OF PLANTS—2 cr. (2 and 0)

In this course attention is given to the nutrition of crop plants and the nutrient requirements of various soils for different crops.

AGRON 452—SOIL CLASSIFICATION, FERTILITY AND MANAGEMENT—2 cr. (2 and 0)

An advanced study of soil composition, soil classification and soil management practices. Attention is given to the subject of physical and chemical composition of the soil, influence of crop rotations and fertilizers on soil

productivity, influence of various methods of tillage on crop yields, and a general study is made of those factors essential for the practical utilization of soils. *Prerequisite:* Agron 202, 301, and major in Agronomy.

AGRON 454—ADVANCED SOIL LABORATORY—1 cr. (0 and 3)

A laboratory course designed to teach students laboratory technique and to make students proficient in making simple physical and chemical determinations of soils. *Prerequisite:* Agron 202.

AGRON 455—SEMINAR—1 cr. (1 and 0)

A study 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)

A study of the latest published and available unpublished information concerning recent developments in the field of soil science. Topics for discussion are taken from latest published bulletins, reports and professional magazines.

AGRON 457—INTRODUCTION TO RESEARCH AND THESIS—1 cr. (0 and 3)

The purpose of this course is to instruct students in the methods employed in attacking and solving an agronomic research problem. A suitable research problem is assigned each student for solution. The results of this study are presented in thesis form.

AGRON 458—INTRODUCTION TO RESEARCH AND THESIS—1 cr. (0 and 3)

A continuation of Agron 457.

AGRON 501—Advanced Nutrition of Crops—3 cr. (3 and 0)

AGRON 502—Advanced Pedology and Soil Classification—3 cr. (3 and 0)

AGRON 503—Advanced Crop Production—3 cr. (3 and 0)

AGRON 504—Advanced Plant Breeding and Genetics—3 cr. (3 and 0)

AGRON 505—SOIL FERTILITY—3 cr. (3 and 0)

AGRON 591—Research—3 cr.

AGRON 592—Research—3 cr.

AIR SCIENCE

COLONEL TULL

LT. COL. CARPENTER, MAJ. MOORE, MAJ. NEWMAN, CAPT. ADAMS,

CAPT. GUGGINO, CAPT. HARRIS, CAPT. LUNA, CAPT. WISE,

M/SGT. JONES, M/SGT. RITCHIE, M/SGT. SLIVKA,

M/SGT. WESTPHAL, T/SGT. STAMEY, S/SGT.

BURKE, S/SGT. DALLAS

AS 109—THE AIRPLANE AND THE AIR AGE—1 cr. (2 and 1)

A course especially designed to provide an introduction to the Air Force ROTC program and aviation. Attention is focused on the airplane, its development, anatomy, the basic principles of flight and fundamentals of global

geography including map projections, world regions, geography of weather and the geographical basis of military power. The laboratory phase of this course provides training in the wearing of the uniform, military courtesy and customs of the service, principles of discipline, and leadership development.

AS 110—THE AIRPLANE AND THE AIR AGE—1 cr. (2 and 1)

A continuation of AS 109. A study of international tensions, international security structures and the instruments of national security, including factors and forces in world politics, the world military situation, United States Armed Forces and the employment of military aviation. The laboratory phase of this course is a continuation of the laboratory of AS 109. Principal additional developments include military orders and commands, basic drill maneuvers, parades, reviews and ceremonies.

AS 209—ELEMENTS AND POTENTIALS OF AIR POWER—1 cr. (2 and 1)

An analysis of the Air Force combat mission, especially as related to the tools and primary problems encountered in accomplishment of this mission, including the basic elements of target types and intelligence procedures; atomic, gun and rocket, and chemical type weapons; and delivery aircraft of conventional, jet-powered and guided types. The laboratory phase of this course is a continuation of the AS 110 laboratory. Additional topics include: duties and responsibilities of non-commissioned officers concerning drill, supervision of personnel, and leadership training activities. Primary emphasis is placed on Squad and Flight Drill.

AS 210—ELEMENTS AND POTENTIALS OF AIR POWER—1 cr. (2 and 1)

A continuation of AS 209. Emphasis is given to the air ocean and considerations of weapon delivery, including the types and location of air bases, and delivery and support organizations. Orientation to the Air Force Career Fields, personal and professional opportunities and officer responsibilities in the Air Force Career Program is given. The laboratory phase of this course is a continuation of the laboratory given in AS 209. Added emphasis is given to leadership development and, in addition, stress is placed on Flight, Squadron and drill activities.

AS 309—THE AIR FORCE OFFICERS IN THE AIR AGE—3 cr. (4 and 1)

A study of the basic principles of command and staff concepts encompassing the Air Force Commander, his staff organization and the principles of effective staff work, including problem solving techniques, communication processes and correspondence; and techniques and principles of instructing in the Air Force. The laboratory phase of this course is a continuation of AS 210 laboratory. Emphasis is placed on principles and techniques of leadership, individual differences and the relationship of psychology and leadership. Practice in conducting of drill to include demonstrations, explanations and practical applications are provided.

AS 310—THE AIR FORCE OFFICER IN THE AIR AGE—3 cr. (4 and 1)

A continuation of AS 309. Technical subjects include procedures and instruments of aerial navigation; development, reports, and maps and charts of weather information. Consideration is given to the military system of law, courts and boards. The Air Force Base, its function and the function of key

base officer personnel are considered in the non-technical field. The laboratory phase of this course is a continuation of the AS 309 laboratory with emphasis on the functions of leadership with respect to morale, rewards, and corrections, promotion and assignment, and development of group spirit and discipline. Further training is provided in practical experience to include demonstrations, explanations and practical applications.

AS 409—LEADERSHIP AND AIR POWER CONCEPTS—3 cr. (4 and 1)

A critique of Summer Camp, Air Force Career Guidance, Moral Responsibility of Air Force Leaders, Leadership and Management Seminar, and Military Aviation and the Evolution of Warfare are the areas of study. The laboratory phase is a continuation of the AS 310 laboratory. Senior students are responsible for the efficient operation and conduct of all phases of drill and exercise of command for the laboratory with a minimum of supervisory assistance. Seminars are conducted in the maxims of leadership and related activities to provide opportunities to develop management proficiency.

AS 410—LEADERSHIP AND AIR POWER CONCEPTS—3 cr. (4 and 1)

A continuation of AS 409. A study of the military aspects of World Political Geography comprises the major portion of the course. Briefing for Commissioned Service provides the future Air Force Officer with an insight into the implications, requirements and customs of the service. The laboratory phase of this course is a continuation of the AS 409 laboratory with particular emphasis to supervision in the drill of Squadron, Group and Wing. Additional experience includes the accomplishment and supervision of parades, ceremonies and reviews.

ANIMAL HUSBANDRY

MR. STARKEY

MR. RITCHIE, MR. COOK, MR. GODLEY, MR. WHEELER, MR. HANDLIN

AH 101, 103—TYPES AND BREEDS—3 cr. (2 and 3)

A study of types, breeds and market classes of beef cattle, horses, sheep and swine. In laboratory the judging, grading, selection and management of farm animals is given considerable emphasis.

AH 301—FEEDS AND FEEDING—3 cr. (3 and 0)

A study of feed nutrients, digestion, metabolism of feed stuffs, nutritive ratios, feeding standards, and the balancing of rations. *Prerequisite:* AH 101, 103 and Ag Ch 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 101, 103 and Ag Ch 220.

AH 306—JUDGING—1 cr. (0 and 3)

Judging classes of cattle, horses, sheep, and swine. A course in the selection and judging of breeding and fat animals. *Prerequisite:* AH 101 and 103.

AH 310, 314—PORK PRODUCTION—3 cr. (2 and 3)

Feeding, breeding, management, and marketing of hogs. Emphasis is placed on winter and summer forages, protein supplements, mineral mixtures, and sanitation. *Prerequisite:* AH 301.

AH 312—BREEDS OF LIVESTOCK—2 cr. (2 and 0)

A study of the origin, characteristics and adaptability of the different breeds of livestock: beef cattle, swine, sheep and horses. *Prerequisite:* AH 101 and 103.

AH 401, 403—BEEF PRODUCTION—3 cr. (2 and 3)

Breeding, feeding, management and grading of beef cattle. Emphasis is placed on year-round grazing. *Prerequisite:* AH 301.

AH 402—HORSE AND SHEEP PRODUCTION—2 cr. (2 and 0)

A study of the breeding, feeding, training, stabling, and care of horses. Also a study of the breeding, feeding, shearing, and marketing of sheep. The adaptability of breeds. Parasites and diseases. *Prerequisite:* AH 301.

AH 405—ADVANCED JUDGING—1 cr. (0 and 3)

A continuation of AH 306 designed for students who are interested in participating in judging contests or in receiving special training in the selection of breeding stock. *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 the seminar group. A thesis is required. *Prerequisite:* AH 301.

AH 451—ADVANCED FEEDS—2 cr. (2 and 0)

A study of the relative values of the different feeds used in livestock production. The nutrient requirements of the different classes of livestock, and the digestible nutrients in our most common feeds. The balancing of rations for all classes of livestock. *Prerequisite:* AH 301.

AH 452, 454—ANIMAL BREEDING—3 cr. (2 and 3)

A study of the fundamental principles relating to the breeding and improvement of livestock including variation, heredity, selection, linebreeding, inbreeding, cross-breeding, breed analysis, and other related subjects. *Prerequisite:* Agron 302.

AH 455—FARM MEATS—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 101, 103.

AH 456—ADVANCED MEATS—1 cr. (1 and 0)

A study of the chemical and physical composition of meat. Meat hygiene, nutritive value, curing, freezing and meat by-products are also topics for discussion. *Prerequisite:* AH 101, 103.

AH 502—TOPICAL PROBLEMS—1-3 cr. (1-3 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. ST. HUBERT, MR. ELLNER, MR. GUNNIN, MR. MEANS, MR. PAGE,
MR. SPEER, MR. GUNTHER, MR. YOUNG, MR. GRAVES

ARCH 101—BASIC DESIGN—3 cr. (0 and 9)

Exercises in visual fundamentals and beginning architectural design, including graphic representation. This course must be taken concurrently with Arch 115 and Arch 121.

ARCH 102—BASIC DESIGN—3 cr. (0 and 9)

A continuation of Arch 101. This course must be taken concurrently with Arch 116 and Arch 122.

ARCH 105—VISUAL ARTS LABORATORY—2 cr. (0 and 6)

Elementary studio problems in drawing, painting and three dimensional representation.

ARCH 106—VISUAL ARTS LABORATORY—2 cr. (0 and 6)

A continuation of Arch 105. *Prerequisite:* Arch 105.

ARCH 115—BASIC CONSTRUCTION—2 cr. (1 and 3)

Elementary study of building materials and methods. The course content is coordinated with work in basic design. This course must be taken concurrently with Arch 101 and Arch 121.

ARCH 116—BASIC CONSTRUCTION—2 cr. (1 and 3)

A continuation of Arch 115. This course must be taken concurrently with Arch 102 and Arch 122.

ARCH 121—INTRODUCTION TO ARCHITECTURE—2 cr. (2 and 0)

The theory of architecture, relating the architect's place in society with the profession as an art and a science. This course must be taken concurrently with Arch 101 and Arch 115.

ARCH 122—INTRODUCTION TO ARCHITECTURE—2 cr. (2 and 0)

A continuation of Arch 121. This course must be taken concurrently with Arch 102 and Arch 116.

ARCH 201—ARCHITECTURAL DESIGN—3 cr. (0 and 9)

The design of small structures with special attention to functional requirements, aesthetics and simple structural analysis. This course must be taken concurrently with Arch 217 and Arch 207. *Prerequisite:* Arch 105 and Arch 106.

ARCH 202—ARCHITECTURAL DESIGN—3 cr. (0 and 9)

A continuation of Arch 201. This course must be taken concurrently with Arch 218 and Arch 208.

ARCH 207—VISUAL ARTS LABORATORY—1 cr. (0 and 3)

A continuation of Arch 106, with emphasis on problems of visual communications. This course must be taken concurrently with Arch 201 and Arch 217. *Prerequisite:* Arch 106.

ARCH 208—VISUAL ARTS LABORATORY—1 cr. (0 and 3)

A continuation of Arch 207. This course must be taken concurrently with Arch 202 and Arch 218. *Prerequisite:* Arch 207.

ARCH 215—BUILDING MATERIALS—2 cr. (2 and 0)

A study of building materials and their application and relation to residential construction types. The course includes the study of the material's sources, manufacturing processes and uses. Designed primarily for Industrial Education majors.

ARCH 216—BUILDING DESIGN—2 cr. (2 and 0)

A continuation of Arch 215, with emphasis on types of construction other than residential types. The course includes a study of all of the phases of construction from the selection of the site to the completed structure. Designed primarily for Industrial Education majors. *Prerequisite:* Arch 215.

ARCH 217—ELEMENTARY CONSTRUCTION—1 cr. (1 and 0)

Lectures and laboratory exercises in structural solutions to space problems. Field trips to buildings under construction are included. This course must be taken concurrently with Arch 201 and Arch 207.

ARCH 218—ELEMENTARY CONSTRUCTION—2 cr. (1 and 3)

The preparation of contract-documents for a simple building. This course must be taken concurrently with Arch 202 and Arch 208, as the work is closely coordinated with architectural design. *Prerequisite:* Arch 116.

ARCH 301—ARCHITECTURAL DESIGN—4 cr. (0 and 12)

Architectural problems of intermediate complexity with special attention to detail and development. *Prerequisite:* Arch 202.

ARCH 302—ARCHITECTURAL DESIGN—4 cr. (0 and 12)

A continuation of Arch 301. This course must be taken concurrently with Arch 318.

ARCH 307—VISUAL ARTS LABORATORY—1 cr. (0 and 3)

A continuation of Arch 208. Studio problems of intermediate complexity in drawing, painting and three dimensional representation. *Prerequisite:* Arch 208.

ARCH 309—HISTORY OF ARCHITECTURE—3 cr. (3 and 0)

The development of architecture from pre-historic to the Romanesque period. The social, technical and aesthetic problems of the Egyptian, Greek, Roman, Early Christian and Byzantine civilizations and their architectural solutions are analyzed.

ARCH 310—HISTORY OF ARCHITECTURE—3 cr. (3 and 0)

A continuation of Arch 309. A study of the Romanesque period, its spread through western Europe as a system of building of great variety which preceded the organic Gothic of the Ile-de-France. The revival of classic form in Italy during the Renaissance, the spread of the Renaissance in England and France. *Prerequisite:* Arch 309.

ARCH 318—INTERMEDIATE CONSTRUCTION—2 cr. (0 and 6)

The study of construction methods, materials and details related to buildings of a non-residential construction type. This course must be taken concurrently with Arch 302, as the work is coordinated with architectural design. *Prerequisite:* Arch 218 and CE 317.

ARCH 320—DRAWING AND COLOR—2 cr. (0 and 6)

Thorough and fundamental approach to drawing and composition, basic in any branch of creative expression. The fundamentals are stressed, but the student will be encouraged to experiment. Designed to develop a selective vision and a graphic use of line, plane, mass and color.

ARCH 401—ARCHITECTURAL DESIGN—6 cr. (0 and 18)

Advanced architectural design, including the programming and solution of complex building problems. Individual and group participation. *Prerequisite:* Arch 302.

ARCH 402—ARCHITECTURAL DESIGN—6 cr. (0 and 18)

A continuation of Arch 401 to include advanced problems in building design, civic planning and landscaping. This course must be taken concurrently with Arch 418.

ARCH 406—VISUAL ARTS LABORATORY—1 cr. (0 and 3)

A continuation of Arch 307 with emphasis on experimentation in various media of visual expression. *Prerequisite:* Arch 307.

ARCH 408—INDUSTRIAL DESIGN—1 cr. (0 and 3)

The design of objects for everyday living, including presentation and production drawings and the execution of scale models.

ARCH 409—ART APPRECIATION—3 cr. (3 and 0)

A general survey course covering man's production in the visual arts through the ages. Illustrated lectures familiarize the student with the best examples of architecture, painting, sculpture and the other fine and applied arts.

ARCH 411—HISTORY OF ARCHITECTURE—2 cr. (2 and 0)

The development of Architecture from the Renaissance period in France and England to modern time, as a problem both of construction and aesthetics, noting the influence of various geological, social and psychological factors. *Prerequisite:* Arch 310.

ARCH 412—HISTORY OF ART—3 cr. (3 and 0)

History of Art considered as an insight into a moving process of life presented both by argument and by objective evidence. Its oldest expression, evolution similarities, influences and reactions are considered in order to arrive at a true and complete understanding of the growth of the new tradition in architecture, showing its interrelations with city planning, painting and science.

ARCH 415—STRUCTURAL METHODS—2 cr. (2 and 0)

A lecture course surveying concrete and steel structural systems in relation to, and a part of, architectural design. A study of demands made by building

codes is included along with the major emphasis on the demands made by the function of the architectural subject. Attention is given to current developments in structural methods. *Prerequisite:* Arch 217.

ARCH 418—CONSTRUCTION—2 cr. (2 and 0)

A study of the methods, materials, and details related to the construction of a complex steel frame building. This course must be taken concurrently with Arch 402. *Prerequisite:* Arch 415 and Arch 218.

ARCH 420—THREE DIMENSIONAL DESIGN AND PAINTING—2 cr. (0 and 6)

Painting and introductory modeling in a three dimensional medium, studied as an expression of art for individuals as well as a collective experience. The essentials are considered to be a command of several media, disciplined draftsmanship, and an intelligent understanding of pictorial and spatial presentation. Realism, abstractionism, non-objectivism, surrealism have significant connotations for the artist who uses his knowledge and technique intelligently.

ARCH 428—WORKING DRAWINGS—3 cr. (0 and 9)

Drafting room practice. The student is required to make a complete set of architectural and structural working drawings of reinforced concrete or steel framed building as prepared in the practicing architect's office. *Prerequisite:* Arch 318.

ARCH 451—ARCHITECTURAL DESIGN—6 cr. (0 and 18)

Advanced problems in architectural design. Special attention is given to urban planning and civic design. This course must be taken concurrently with Arch 461. *Prerequisite:* Arch 401.

ARCH 452—THESIS—6 cr. (0 and 18)

The student working individually will carefully program an environmental problem of appropriate scope, and will conduct his own comprehensive research. He will make a complete visual, oral and written presentation of his solution. This course must be taken concurrently with Arch 462 and Arch 468. *Prerequisite:* Arch 451.

ARCH 461—TOWN AND REGIONAL PLANNING—3 cr. (1 and 6)

An advanced course in the philosophy of design relating the programming of individual structures to the larger needs of the neighborhood and region.

ARCH 462—TOWN AND REGIONAL PLANNING—3 cr. (1 and 6)

A continuation of Arch 461. *Prerequisite:* Arch 461 or graduate standing.

ARCH 465—ADVANCED CONSTRUCTION—2 cr. (1 and 3)

A course based on the more advanced types of construction. Experimentations with models of structural systems and elements is required. *Prerequisite:* Arch 415.

ARCH 468—ADVANCED CONSTRUCTION—2 cr. (0 and 6)

Advanced working drawings. *Prerequisite:* Arch 418. *Corequisite:* Arch 452.

ARCH 471—MECHANICAL PLANT—2 cr. (1 and 3)

A course designed to familiarize the student with the water supply, plumbing, heating and ventilating systems of present-day buildings.

ARCH 472—MECHANICAL PLANT—2 cr. (1 and 3)

A study of air conditioning, electrical systems, lighting, vertical transportation, and acoustics as applied to buildings. *Prerequisite:* Arch 471.

ARCH 475—ARCHITECTURAL OFFICE PRACTICE—2 cr. (2 and 0)

General consideration of the entire architectural office practice procedure with especial emphasis on the professional relationship of the architect to client and contractor. The full scope of architectural services is covered, including administrative procedures.

ARCH 476—ARCHITECTURAL OFFICE PRACTICE—2 cr. (2 and 0)

A continuation of Arch 475. *Prerequisite:* Arch 475.

ARCH 478—STRUCTURAL THESIS—6 cr. (0 and 18)

This course requires the research, analysis and presentation of one or more structural systems, methods or elements. *Prerequisite:* Must be accompanied or preceded by CE 452.

BACTERIOLOGY

MR. RUSH

MR. BOND

BACT 301, 303—GENERAL BACTERIOLOGY—4 cr. (3 and 3)

Morphology, classification, distribution, cultivation, observation, and physiology of microorganisms; effects of organisms on their environment; microorganisms and health. *Prerequisite:* Bot 101, 103; Chem 101, 102.

BACT 310, 312—ADVANCED BACTERIOLOGY—4 cr. (2 and 6)

The first part of this course is devoted to discussions of the nutrition, metabolism, growth, and death of bacteria, microbiological assays, and industrial fermentations. This is followed by a detailed survey of those bacteria most important in water, milk, foods, and industry, together with some of the techniques used in their study. *Prerequisite:* Bact 301, 303; Ag Chem 220 or Chem 221, 222.

BACT 402, 404—DAIRY BACTERIOLOGY—3 cr. (2 and 3)

Bacterial counts on milk, milk fermentations, contamination of milk and cream, reducing the contamination of milk, growth of microorganisms in milk and cream, spread of diseases through milk and its derivatives; preservation of milk and cream, bacteriology of prepared milks, ice cream, butter cultures, fermented milks, butter, cheese, tests for the quality of milk and cream. *Prerequisite:* Bact 301 and 303.

BACT 406, 408—SANITARY BACTERIOLOGY—4 cr. (3 and 3)

This course is designed primarily for Engineering students. After a consideration of the fundamentals of bacteriology, the course deals with a knowledge of the relation of bacteriology to water purification and sewage disposal. *Prerequisite:* Chem 101 and 102.

BACT 410, 412—SOIL MICROBIOLOGY—3 cr. (2 and 3)

The role of microbes in the decomposition of organic substances, transformation of nitrogen, transformation of mineral substances in soil by the action of microorganisms, interrelationships between higher plants and soil

microorganisms, modification of the soil population, importance of microbes in soil fertility. *Prerequisite:* Bact 301 and 303.

BACT 501, 503—TAXONOMY OF BACTERIA—3 cr. (2 and 3)

BACT 502, 504—ADVANCED BACTERIOLOGICAL TECHNIC—4 cr. (2 and 6)

BACT 505, 507—PHYSIOLOGY OF BACTERIA—3 cr. (2 and 3)

BACT 591—RESEARCH—3 cr.

BACT 592—RESEARCH—3 cr.

BOTANY

MR. ARMSTRONG

MR. ROSENKRANS, MR. WHITNEY, MR. MATHEWS, MR. RUTLEDGE

BOT 101, 103—GENERAL BOTANY—4 cr. (3 and 3)

The first part of the semester is devoted to a study of the form, structure, and physiology of the higher plants, followed by a study of algae, bacteria, fungi, liverworts, mosses, and ferns, with the application of the biological laws. Descriptions, life histories and adaptation of the representative organisms are considered.

BOT 351, 353—PLANT MORPHOLOGY—4 cr. (2 and 6)

A study of the structure of vegetative and reproductive parts of plants representing most of the major groups except the fungi. Most of the time is spent on the higher vascular plants. *Prerequisite:* Bot 101 and 103.

BOT 352, 354—PLANT PHYSIOLOGY—4 cr. (3 and 3)

A study of all the relations and processes which have to do with the maintenance, growth, and reproduction of plants. Principal topics are absorption of matter and energy, water relations of the plant, utilization of reserve products and liberation of energy, growth, movement and reproduction. *Prerequisite:* Bot 101 and 103; Chem 101 and 102; Phys 201 and 203 or Phys 211 and 213.

BOT 355—HISTOLOGY—2 cr. (0 and 6)

This course gives the student a knowledge of the principles of fixing, cutting and staining plant tissues and the various other processes of micro-technique as well as their application to specific forms of plants. *Prerequisite:* Bot 101 and 103; Chem 101 and 102.

BOT 356, 358—TAXONOMY—3 cr. (1 and 6)

The identification, classification, distribution, and interrelationship of flowering plants with particular emphasis on the flora of South Carolina. Laboratory work includes a study of native trees and shrubs in winter condition, the collection and identification of local plants, and the preparation of a small herbarium. *Prerequisite:* Bot 101 and 103.

BOT 401, 403—PLANT PATHOLOGY—3 cr. (2 and 3)

To acquaint the student with the major plant diseases of the South, symptoms of the diseases, the nature of the causal agencies or factors, and methods of control. *Prerequisite:* Bot 101 and 103.

BOT 402, 404—ECONOMIC BOTANY—3 cr. (2 and 3)

A study of 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, such as woods, resins, tanning materials, rubber, textiles, cereals, sugar, oils, fruits, spices, beverages and drugs. Library research, periodic reports, and the examination of special material replace formal laboratory work. *Prerequisite:* Bot 101 and 103. Other students who present evidence of good scholarship may elect.

BOT 405—SEMINAR AND THESIS—2 cr. (1 and 3)

BOT 406—SEMINAR AND THESIS—2 cr. (1 and 3)

BOT 451, 453—MORPHOLOGY OF THE FUNGI—3 cr. (2 and 3)

A course to acquaint the student with the morphology and taxonomy of the fungi through lectures, reports, laboratory work, and field trips. Special attention is devoted to practice in the methods of pure culture as they apply to the different saprophytic and parasitic forms. *Prerequisite:* Bot 101, 103; Bot 401, 403.

BOT 452, 454—ECOLOGY—4 cr. (2 and 6)

A study of the fundamental principles of the relations between plants and environmental conditions. Special attention is given to ecological relationships and problems in this region. *Prerequisite:* Bot 101, 103.

BOT 501—METHODS OF RESEARCH IN PLANT PHYSIOLOGY—3 cr.

BOT 502—ADVANCED MYCOLOGY—3 cr. (2 and 3)

BOT 503—ADVANCED 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—3 to 6 cr.

BOT 506—CHEMICAL CONTROL OF PLANT DISEASES—2 to 4 cr. (2 and 0 or 6)

BOT 591—RESEARCH—3 cr.

BOT 592—RESEARCH—3 cr.

CERAMIC ARTS

MR. ROBINSON

CR AR 101—POTTERY MATERIALS—3 cr. (2 and 3)

A study of 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)

A study of 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)

A study of 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

CR EN 201—INTRODUCTION TO CERAMIC ENGINEERING—2 cr. (2 and 0)

A study of 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.

CR EN 202—CERAMIC MATERIALS—3 cr. (3 and 0)

A study of the occurrence, mining and properties of clays and ceramic minerals.

CR EN 301—THE DRYING AND FIRING OF CERAMIC PRODUCTS—4 cr. (3 and 3)

A study of 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:* Cr En 202, Phys 212 and 214.

CR EN 303—CERAMIC PRODUCTS—2 cr. (2 and 0)

This course is intended as an elective course for architects, architectural, chemical, civil, electrical and mechanical engineers to acquaint them with the various ceramic products used in their professions. The properties, uses and methods of manufacture of such products as structural clay, refractories, whitewares, porcelain enamel and glass are included in this course.

CR EN 305—THERMO-CHEMICAL CERAMICS—5 cr. (3 and 6)

A study of 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. *Prerequisite:* Cr En 301 or enrollment in Cr En 301 and Junior standing.

CR EN 402—CERAMIC BODIES—3 cr. (3 and 0)

A study of 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.

CR EN 403—GLASSES—3 cr. (3 and 0)

A study of 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.

CR EN 404—ENAMELS—3 cr. (3 and 0)

A study of the raw materials, methods of manufacture, and properties of porcelain enamel coatings for metals. *Prerequisite:* Cr En 305.

CR EN 405—PLANT DESIGN—2 cr. (0 and 6)

The application of the fundamentals of ceramic engineering to specific problems in plant design. *Prerequisite:* Senior standing in Ceramic Engineering and Cr En 305.

CR EN 406—CERAMIC PROJECT—2 cr. (0 and 6)

The completion of an original research into a ceramic problem. *Prerequisite:* Cr En 305.

CR EN 408—PLANT DESIGN—2 cr. (0 and 6)

A continuation of Cr En 405.

CR EN 410—GLASS MANUFACTURE—3 cr. (3 and 0)

A study of the manufacture and properties of various glass products.

CR EN 412—RAW MATERIAL PREPARATION—3 cr. (3 and 0)

A study of 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.

CR EN 416—CEMENT, LIME AND PLASTER—3 cr. (3 and 0)

A study of the manufacturing methods, properties and uses of various cementing materials.

CR EN 418—PROCESS CONTROL—3 cr. (3 and 0)

A study of 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.

CR EN 501—ADVANCED ANALYTICAL PROCEDURES AND EQUIPMENT—3 cr. (2 and 3)**CR EN 502—SILICATE CRYSTALLOGRAPHY—3 cr. (3 and 0)****CR EN 503—CERAMICS PRODUCTION CONTROL—3 cr. (3 and 0)**

CR EN 504—CERAMICS QUALITY CONTROL—3 cr. (3 and 0)

CR EN 505—ADVANCED DRYING—3 cr. (2 and 3)

CR EN 506—ADVANCED FIRING—3 cr. (2 and 3)

CR EN 507—SPECIALIZED CERAMICS—3 cr. (3 and 0)

CR EN 591—RESEARCH—3 cr.

CR EN 592—RESEARCH—3 cr.

CHEMICAL ENGINEERING

MR. LITTLEJOHN

ChE 202—INTRODUCTION TO CHEMICAL ENGINEERING—2 cr. (1 and 3)

This course is 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. Technical topics include conversion of units, use of the slide rule, pressure and temperature, the gas laws, molecular quantities, and material and energy balances. *Prerequisite:* Chem 104, Math 104 and Sophomore standing.

ChE 301—PRINCIPLES OF CHEMICAL ENGINEERING—3 cr. (3 and 0)

An introduction to 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 202 and Junior standing.

ChE 302—PRINCIPLES OF CHEMICAL ENGINEERING—3 cr. (3 and 0)

A study of the following 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 306—UNIT OPERATIONS—1 cr. (0 and 3)

This course covers 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 330—CHEMICAL ENGINEERING THERMODYNAMICS—2 cr. (2 and 0)

An introduction to the general realm of thermodynamics thought. Topics include the First and Second Law of Thermodynamics, real and ideal gases, thermodynamic properties of fluids, phase changes, and heats of reaction. *Prerequisite:* ChE 301, Chem 337, Math 306 or enrollment in Math 306 and Junior standing.

ChE 401—PRINCIPLES OF CHEMICAL ENGINEERING—3 cr. (3 and 0)

A study of the following 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 301, 302 and Senior standing.

ChE 403—CHEMICAL INDUSTRIES—3 cr. (3 and 0)

A study of various chemical industries. Economics and the interrelation of unit operations and unit processes are considered. Attention is given to the dependence of each industry on the chemical field as a whole. *Prerequisite:* Senior standing in Chemical Engineering or Chemistry.

ChE 404—CHEMICAL INDUSTRIES—3 cr. (3 and 0)

A continuation of ChE 403. *Prerequisite:* Senior standing in Chemical Engineering or Chemistry.

ChE 406—INDUSTRIAL CHEMICAL CALCULATIONS—2 cr. (2 and 0)

Advanced Chemical Engineering calculations of stoichiometric problems on the industrial plant scale. *Prerequisite:* Permission of instructor.

ChE 407—UNIT OPERATIONS—2 cr. (0 and 6)

This course covers 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:* Senior standing in Chemical Engineering.

ChE 411—CHEMICAL ENGINEERING LIBRARY MATERIALS—1 cr. (1 and 0)

This course is designed as 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 411 and Senior standing.

ChE 415—INTRODUCTION TO NUCLEAR ENGINEERING—3 cr. (3 and 0)

This course is 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 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.

ChE 430—CHEMICAL ENGINEERING THERMODYNAMICS—3 cr. (3 and 0)

A continuation of ChE 330. Subjects include heat engines, compressors, refrigeration, phase equilibria and chemical reaction equilibria. *Prerequisite:* ChE 330 and Senior standing.

CHEMISTRY

MR. SCHIRMER

MR. BROWNLEY, MR. CARODEMOS, MR. HOBSON, MR. HUNTER, MR. POLK,

MR. DINWIDDIE, MR. MAULDIN, MR. C. Q. BROWN, MR. HODGES,

MR. SALLEY, MR. GILLESPIE, MR. LANDERS

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 104—GENERAL CHEMISTRY—4 cr. (3 and 3)

This course is required of students majoring in Chemistry, Ceramic Engineering, Chemical Engineering, Textile Chemistry or Pre-Medicine. It is similar to Chem 102, except that it gives a more thorough covering of those fundamentals which are necessary for advanced work in Chemistry.

CHEM 215—QUALITATIVE ANALYSIS—4 cr. (2 and 6)

A study of the fundamental principles of Qualitative Analysis and their application in the systematic separation and identification of the common cations and anions in the laboratory. The topics discussed are: chemical equilibrium and the law of mass action, solution and ionization, solubility product, hydrolysis and complex ions. *Prerequisite:* Chem 101, and 102 or 104.

CHEM 216—QUANTITATIVE ANALYSIS—4 cr. (2 and 6)

A study of 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.

CHEM 217—QUALITATIVE ANALYSIS—2 cr. (2 and 0)

This course covers the theory only of Chem 215 and is designed primarily for graduate students in other departments. *Prerequisite:* Chem 101, and 102 or 104 and permission of the instructor.

CHEM 218—QUANTITATIVE ANALYSIS—2 cr. (2 and 0)

This course 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 permission of the instructor.

CHEM 323—ELEMENTARY ORGANIC CHEMISTRY—4 cr. (3 and 3)

A thorough 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, and 102 or 104.

CHEM 324—ELEMENTARY ORGANIC CHEMISTRY—4 cr. (3 and 3)

The 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 221.

CHEM 331—PHYSICAL CHEMISTRY—5 cr. (3 and 6)

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. The laboratory work is designed to acquaint the students with the techniques used in the study of the physical nature of gases, liquids, solids and solutions. *Prerequisite:* Math 203 and 204, Chem 216.

CHEM 332—PHYSICAL CHEMISTRY—5 cr. (3 and 6)

A continuation of Chem 331 which will include theories of atomic and molecular structure, colloidal studies, kinetics of chemical processes, and electro-chemistry.

CHEM 335—PHYSICAL CHEMISTRY—3 cr. (3 and 0)

Topics from physical chemistry which are of especial interest to ceramic engineering and textile chemistry students are considered. *Prerequisite:* Chem 216, Math 203 and 204.

CHEM 336—PHYSICAL CHEMISTRY—2 cr. (2 and 0)

A continuation of Chem 335.

CHEM 337—PHYSICAL CHEMISTRY—4 cr. (3 and 3)

The theory in this course is identical with that in Chem 331 but the laboratory is only one period per week and the experiments are selected in such a way as to be of maximum value to Chemical Engineering majors. *Prerequisite:* Same as for Chem 331.

CHEM 338—PHYSICAL CHEMISTRY—4 cr. (3 and 3)

A continuation of Chem 337.

CHEM 339—INTRODUCTION TO PHYSICAL CHEMISTRY—3 cr. (3 and 0)

This course is designed for those students who wish a brief and not too mathematical approach to the basic laws of physical chemistry. Among the topics discussed are the gas laws, diffusion, osmotic pressure, theory of solutions, oxidation and reduction, colloids, and electrochemistry. A brief review of such fundamentals as ionization, pH and mass action is also included. *Prerequisite:* General Chemistry and Analytical Chemistry.

CHEM 401—INORGANIC CHEMISTRY—2 cr. (1 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 402—INORGANIC CHEMISTRY—3 cr. (2 and 3)

A continuation of Chem 401 theory with the addition of a laboratory in which typical inorganic syntheses are carried out.

CHEM 411—INSTRUMENTAL ANALYSIS—3 cr. (1 and 6)

The demonstration and operation of modern optical and electronic precision measuring devices as they apply to the processes of analytical, physical and organic chemistry. *Prerequisite:* Physical Chemistry.

CHEM 421—QUALITATIVE ORGANIC ANALYSIS—3 cr. (1 and 6)

The systematic identification of pure organic compounds and mixtures.

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 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—3 cr. (1 and 6)

The course is designed to teach the student techniques and principles as applied in a research laboratory. Both macro and semimacro methods are used in the preparation of several organic compounds. *Prerequisite:* Chem 421.

CHEM 503—INORGANIC CHEMISTRY—2 cr. (2 and 0)**CHEM 504—INORGANIC CHEMISTRY—2 cr. (2 and 0)****CHEM 505—ADVANCED INORGANIC 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 520—INTERMEDIATE ORGANIC CHEMISTRY—3 cr. (3 and 0)****CHEM 521—ADVANCED ORGANIC CHEMISTRY—3 cr. (3 and 0)****CHEM 530—PHYSICAL CHEMISTRY—3 cr. (3 and 0)**

CHEM 531—PHYSICAL CHEMISTRY—3 cr. (3 and 0)

CHEM 532—ADVANCED PHYSICAL CHEMISTRY—3 cr. (3 and 0)

CHEM 541—ATOMIC AND MOLECULAR STRUCTURE—3 cr. (3 and 0)

CHEM 591—RESEARCH—3 cr.

CHEM 592—RESEARCH—3 cr.

CIVIL ENGINEERING

MR. LOWRY

MR. TRIVELY, MR. FORD, MR. J. H. HUNTER, MR. MCCORMAC,
MR. MOSS, MR. ROSTRON

CE 101—ELEMENTARY SURVEYING—2 cr. (1 and 3)

An introductory course given to all Engineering freshmen. This course comprises field and office computations involving the use of the tape, transit, level and leveling rod; the making of simple surveys and computing the areas.

CE 201—SURVEYING—2 cr. (2 and 0)

A detailed study of the construction of all surveying instruments, and methods of adjusting same; a comprehensive consideration of the mathematical principles involved in making surveys: computations involved in computing and subdividing areas. For pre-forestry students only. *Prerequisite:* CE 101, Math 102.

CE 202—SURVEYING—2 cr. (2 and 0)

This is a continuation of CE 201, and comprises the application of surveying principles to the various phases of surveying problems, including land surveying, topographic surveying, route surveying, mine surveying and hydrographic surveying. This course includes sufficient elementary astronomy for making solar or stellar observations for the determination of Azimuth and Time. For pre-forestry students only. *Prerequisite:* CE 201.

CE 203—TOPOGRAPHIC SURVEYING AND MAPPING—1 cr. (0 and 3)

The field and office work necessary to make a complete topographic map, including contours of a prescribed area. For pre-forestry students only. *Prerequisite:* CE 101, Math 101.

CE 205—CIVIL ENGINEERING PROBLEMS—1 cr. (0 and 3)

This course, designed to familiarize the student with simple problems in civil engineering, includes a review of the applications of trigonometric functions and logarithms, and a study of graphs, tables, and the slide rule. Some emphasis is given to a systematic analysis of problems and a neat and orderly arrangement of computations. *Prerequisite:* Math 103, 104 and registration in Phys 211.

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 in-

cluding solar and stellar observations. *Prerequisite:* CE 101, Math 103 (CE 301 taught in summer only.)

CE 305—ROUTE SURVEYING—3 cr. (2 and 3)

A study of the special problems which arise in connection with the location of a route for a railroad, highway, canal, sewer, water main or transmission line; the 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 306—PRINCIPLES OF SANITATION—2 cr. (2 and 0)

This course covers the theory of sanitation and its relation to man's well-being. This engineering techniques in the problems associated with milk, food, insects, rodents, sewage, water, etc. are discussed. *Prerequisite:* Junior standing.

CE 307—ROADS AND PAVEMENTS—3 cr. (2 and 3)

Theory and practice in design, location, construction and maintenance of low cost, intermediate and high type road surfaces, including a study of physical properties of bituminous construction materials and the standard tests for determining these properties. Highway economics and administration. Study of factors relating to highway construction methods and materials. *Prerequisite:* CE 305.

CE 309—TRUSSES—1 cr. (0 and 3)

Analytical and graphical analysis and design of simple trusses under static load conditions. *Prerequisite:* Mech 302.

CE 310—STRUCTURES—3 cr. (2 and 3)

Analysis of determinate and indeterminate beams under static load conditions. Introduction to Moment Distribution. Design and detail of steel beams, girders, columns and their connections. *Prerequisite:* Mech 304 and CE 309.

CE 317—MATERIALS AND METHODS OF CONSTRUCTION—2 cr. (2 and 0)

This course is intended to familiarize the student with the common materials and technical terms used in construction and the ways in which the materials are used. *Prerequisite:* Sophomore standing.

CE 319—GENERAL PHOTOGRAMMETRY—3 cr. (2 and 3)

An introduction to the fundamentals of mapping by use of aerial photographs. A study of the characteristics and uses of aerial photographs, detailed interpretation and simple photogrammetric instruments such as the stereocomparagraph. Practice in use of simple mapping instruments, problems in scale determination, construction of photomosaics. *Prerequisite:* CE 301 and Junior standing.

CE 401—STRUCTURAL DESIGN—3 cr. (2 and 3)

Analysis of beams and trusses subjected to dynamic loads. Use of influence lines. Design and detail of steel bridges. *Prerequisite:* CE 310 and Senior standing.

CE 402—STRUCTURAL ANALYSIS—2 cr. (2 and 0)

Analysis of statically indeterminate structures by the method of moment distribution. *Prerequisite:* CE 310 and Senior standing.

CE 409—REINFORCED CONCRETE STRUCTURES—4 cr. (3 and 3)

Study of mechanics of reinforced concrete, beams, slabs, columns and footings. Designs and estimates of concrete structures. A study of the standard tests for determining the properties of materials used in reinforced concrete construction. *Prerequisite:* Mech 304, 306 and Senior standing.

CE 410—MUNICIPAL AND SANITARY ENGINEERING—3 cr. (2 and 3)

A study of water consumption, its source, development, treatment, storage and distribution; storm and sanitary sewage and treatment methods. Field trips to municipal and industrial water and sewage treatment plants. *Prerequisite:* CE 306, Mech 401 and Senior standing.

CE 412—REINFORCED CONCRETE DESIGN—2 cr. (1 and 3)

The complete analysis and design of a reinforced concrete bridge or building. *Prerequisite:* CE 409.

CE 413—SANITATION CONTROLS—3 cr. (2 and 3)

A study of the various methods of treatment in the solution of physical, chemical and biological problems in water supply and sewerage. *Prerequisite:* CE 306.

CE 414—SOIL MECHANICS—3 cr. (2 and 3)

Study of 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:* Mech 304 and Senior standing.

CE 417—CITY PLANNING—2 cr. (2 and 0)

A study of the special problems confronting a city engineer which are not specifically of an engineering nature, but for the solution of which the public looks to the city officials; viz., street systems, traffic control, parking facilities, railroad and water traffic problems, airports, parks and playgrounds and zoning; legal problems involved. *Prerequisite:* Senior standing.

CE 420—CONCRETE MIXES—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 409.

CE 422—BUSINESS, LEGAL, AND ETHICAL PHASES OF ENGINEERING—3 cr. (3 and 0)

A study of business economy, cost determination, business law, and engineering procedures as related to the engineer. It is the major objective of this course to emphasize the importance of competence in the social and personal areas. *Prerequisite:* Econ 201 and senior standing.

CE 434—CONSTRUCTION COSTS AND ESTIMATES—3 cr. (2 and 3)

This course covers the 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)

A study of the various methods for computing the deflections of beams and trusses. *Prerequisite:* CE 310 and Senior standing.

CE 499—THESIS—1-3 cr.

Civil Engineering students of exceptional ability, with the permission of the Head of the Civil Engineering Department, may choose as an elective the preparation and submission of a thesis covering some phase of Civil Engineering. This thesis may be either an independent experimental investigation entered into with the hope of discovery of new engineering knowledge, or the independent prosecution of an already somewhat stabilized problem in engineering design. Those students who desire to submit a thesis as a part of their free electives, must present to the Head of the Civil Engineering Department, not less than one month prior to the opening of the semester during which the thesis work is intended to be done, a complete outline of the work contemplated in the proposed thesis and the projected method of procedure. (Amount of credit given depends upon the nature of the subject, the amount of time devoted to it, and the quality of the work.)

CE 501—ADVANCED STRUCTURAL ENGINEERING—3 cr. (2 and 3)

CE 502—ADVANCED STRUCTURAL ENGINEERING—3 cr. (2 and 3)

CE 503—MODEL ANALYSIS—3 cr. (2 and 3)

CE 510—HIGHWAY SAFETY AND TRAFFIC CONTROL—3 or 2 cr. (3 and 0)
or (2 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 591—RESEARCH—3 cr.

CE 592—RESEARCH—3 cr.

DAIRY

MR. LAMASTER

MR. GOODALE, MR. KING, MR. BRANDT, MR. BRANNON, MR. HURST,

MR. LAZAR, MR. GRAHAM

DAIRY 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 production, testing milk and some of its products, the manufacture of milk products, and the value of milk and milk products.

DAIRY 302—DAIRY TECHNOLOGY AND ENGINEERING—3 cr. (2 and 3)

The chemical and physical properties of milk and milk products are studied in the classroom and laboratory as they apply to the processing of dairy products. Engineering subjects include heat measurement, transfer and control, power transmission, electrical power and equipment, hydraulics and pumping, steam and its use, refrigeration, insulation, heaters and coolers, ice cream equipment, homogenizers, pasteurizing equipment, evaporating and drying equipment, washing and sterilizing equipment fillers, equipment maintenance, general mechanics and dairy plant design and layout. *Prerequisite:* Junior standing.

DAIRY 304—JUDGING DAIRY PRODUCTS—1 cr. (0 and 3)

Organoleptic examinations of various grades of butter, cheese, cream, ice cream and milk familiarize the student with the quality of dairy products. Physical character, flavor and aroma are discussed in their relation to taste appeal. Basic techniques of commercial grading and quality control are emphasized. *Prerequisite:* Junior standing.

DAIRY 305—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.

DAIRY 306—MARKET MILK—3 cr. (3 and 0)

This course is designed to give a comprehensive understanding of the care and handling of market milk. Subjects include history and development of the market milk industry, composition of milk and its properties, microorganisms, enzymes and cells of milk and cream, milk and public health, safeguarding the milk supply, sanitary production of market milk, construction and arrangement of buildings (farm and station), transportation of milk, flavors of milk, construction and arrangement of city milk plants, milk plant operation, pasteurization of milk, cooling systems, creaming, separation, special milk products, business management, the dairy laboratory, dairy mathematics. *Prerequisite:* Dairy 201.

DAIRY 308—ADVANCED DAIRY CATTLE JUDGING—1 cr. (0 and 3)

This course is a continuation of Dairy 305 to provide more practice in judging cattle form in relation to reproduction and milk production. The study of dairy cattle behavior and management is included in this course. *Prerequisite:* Dairy 305.

DAIRY 309—ANIMAL NUTRITION—3 cr. (3 and 0)

A chemical and physiological treatment of digestion, absorption and metabolism of nutrients. The physiology of and nutritional requirements for body

maintenance, growth, reproduction and lactation of dairy cattle. *Prerequisite:* Ag Ch 220.

DAIRY 352—ADVERTISING AND MARKETING—3 cr. (3 and 0)

In this course, giving the fundamentals in important fields of sales and marketing, topics studied are evolution of advertising, advertising allied with journalism, rise of national advertising, social aspects of advertising, advertisers' policies and objectives, modern advertising procedure, marketing research, names, trade marks, packages, psychology of selling, incentives to attention, incentives to interest, establishing associations, building the advertisement, substance of advertising copy, typography, illustrations and color, layout and visualization, advertising program, advertising production media and radio advertising. *Prerequisite:* Junior standing.

DAIRY 354—ENDOCRINOLOGY—3 cr. (3 and 0)

This course includes a study of the anatomy and physiology of the glands of internal secretion. The chemistry of the hormones is considered. Emphasis is placed on the relationship of the endocrine glands to growth, reproduction and lactation. *Prerequisite:* Junior standing.

DAIRY 358—ARTIFICIAL INSEMINATION OF FARM ANIMALS—3 cr. (2 and 3)

A course designed to acquaint the student with the theoretical and practical phases of artificial insemination in farm animals, with emphasis on cattle. The course includes a study of the anatomy and physiology of male and female reproductive tracts, practical training in semen processing, fertility tests and insemination of cows and observation of field operations of cooperative breeding association technicians. Offered in alternate years. *Prerequisite:* Junior standing.

DAIRY 401—DAIRY MANUFACTURES—3 cr. (2 and 3)

A thorough study is made of the manufacture of creamery butter, and the processing of soft cheeses. Topics include history of butter-making, care of cream on the farm, buying and grading cream, inspection and testing methods, neutralization, pasteurization, starters and ripening, churning and all subsequent processes until the butter is ready for market, composition control, butter scoring, butter storage, marketing butter, refrigeration and sanitation. Studies are conducted on complete processing methods for common varieties of soft cheeses. *Prerequisite:* Dairy 201 and 302.

DAIRY 402—DAIRY MANUFACTURES—4 cr. (2 and 6)

A study of ice cream manufacture and related problems of producing condensed and powdered milks. Subjects include history of ice cream making, classification of frozen products, composition, ingredients used, standardization of mixes, processing mixes, testing, freezing, whipping defects in ice cream, packaging, hardening, shipping sugars, egg products, stabilizers, chocolate products, vanillas, fruits, ices, sherbets, specials, costs and merchandising, ice cream as a food, and bacteriology of ice cream. *Prerequisite:* Dairy 201 and 302.

DAIRY 405—DAIRY CATTLE BREEDING—3 cr. (2 and 3)

The student is given an understanding of the methods used in developing and improving the breeds of cattle. Topics include breed history, advanced

register, pedigrees, methods of indexing proved sires, statistical study of the relations of environment to production. *Prerequisite:* Agron 302.

DAIRY 409—DAIRY 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 reports before class and Dairy Staff. *Prerequisite:* Senior standing.

DAIRY 410—DAIRY SEMINAR—2 cr. (2 and 0)

This course is a continuation of Dairy 409 with emphasis on current research literature. Each student is required to conduct a research project in production or manufactures and report the exposition of the results by thesis. *Prerequisite:* Senior standing.

DAIRY 452—DAIRY CATTLE FEEDING AND MANAGEMENT—3 cr. (2 and 3)

This course gives the fundamental principles in the care, feeding, and management of dairy cattle of all ages. Topics include general considerations in selecting a breed, selecting the individual cow, calf raising, growth and development, raising dairy heifers, care and management of the milking herd, milking factors, feeding for milk production, stables for cows, dairy barn equipment and handling manure. *Prerequisite:* Senior standing.

DAIRY 501—TOPICAL PROBLEMS—1 to 3 cr.

DAIRY 502—GENETICS OF DAIRY CATTLE IMPROVEMENT—3 cr. (3 and 0)

DAIRY 503—PHYSIOLOGY OF REPRODUCTION AND MILK SECRETION—3 cr. (3 and 0)

DAIRY 505—NEWER KNOWLEDGE OF ANIMAL NUTRITION—3 cr. (3 and 0)

DAIRY 591—RESEARCH—3 cr.

DAIRY 592—RESEARCH—3 cr.

DRAWING AND DESIGNING

MR. SHIGLEY

MR. BRADBURY, MR. MCHUGH, MR. BANISTER, MR. CARTER, MR. DOYLE,
MR. HAMMOND, MR. VON KAENEL

DD 101—FREEHAND DRAWING—1 cr. (0 and 3)

A study of the principles of technical sketching, including the development of skills in technical lettering and freehand drawing.

DD 102—TECHNICAL DRAWING—1 cr. (0 and 3)

A study of the elementary principles of multi-view projection with emphasis upon the reading of technical drawings rather than upon their execution. *Prerequisite:* DD 101.

DD 105—ENGINEERING DRAWING—2 cr. (0 and 6)

This course is designed 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.

DD 106—ENGINEERING DRAWING—2 cr. (0 and 6)

A continuation of DD 105 with the last portion of the course devoted to the use of graphics by management for the analysis and presentation of data. *Prerequisite:* DD 105.

DD 107—ENGINEERING DRAWING—2 cr. (0 and 6)

A comprehensive study of the graphical language with emphasis on drawing as preparation for engineering design. Technical sketching, mechanical sketching, and mechanical drawing are used in about equal proportions with the intent of developing a basic tool for the solution of engineering problems.

DD 108—ENGINEERING DRAWING—2 cr. (0 and 6)

A continuation of DD 107. Simple problems involving analysis and synthesis from many fields of engineering are introduced in order to develop the full usefulness of graphics as an engineering tool. *Prerequisite:* DD 107.

DD 205—APPLIED DESCRIPTIVE GEOMETRY—3 cr. (2 and 3)

A study of the theory of orthographic projection and its application to the graphical solution of three-dimensional space problems. A wide variety of practical problems are solved including problems dealing with points, lines, planes, single curved surfaces, and double curved surfaces. *Prerequisite:* DD 106 or DD 108.

DD 305—KINEMATICS OF MACHINES—2 cr. (1 and 3)

A study of cams, linkages and related mechanisms. The determination of velocities and accelerations in simple machines. A comprehensive study of toothed gearing, simple and planetary gear trains and miscellaneous mechanisms. *Prerequisite:* DD 108. Must parallel or follow Mech 303.

DD 306—MACHINE DESIGN—2 cr. (1 and 3)

A study of the various "factors" which influence the design engineer's decision upon the size, material or shape of a machine part and its location in a machine. Review of materials and processes from the standpoint of design. The design of various machine elements. A selected group of laboratory problems to bring out the student's judgment, initiative and ingenuity, and to unite all his previous experience and studies and focus them toward the solution of each problem. *Prerequisite:* DD 305. Must parallel or follow Mech 304.

DD 308—MECHANISMS AND KINEMATICS OF MACHINES—3 cr. (2 and 3)

A comprehensive study of the displacements, velocities, and accelerations encountered in the analysis of machines. The application of these fundamentals to the analysis of linkages and cams; to spur, helical, worm, bevel and hypoid gears; to straight and planetary gear trains; and to miscellaneous mechanisms. *Prerequisite:* Mech 303.

DD 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 and strain. A brief review of materials, their properties, and methods of working them. Special emphasis is given to fatigue and combined stresses as applied to the design of modern machinery. (A student may not receive credit for both DD 306

and DD 401). *Prerequisite:* DD 308, Mech 304 and Senior standing. *Co-requisite:* IE 402.

DD 402—THE DESIGN OF MACHINE ELEMENTS—3 cr. (2 and 3)

A continuation of DD 401. A study of current methods in use for the design of various machine parts. Particular attention is paid to the limitations of existing design methods in view of the emphasis on high speeds, heavy loads and light weights of today's machines. *Prerequisite:* DD 401.

DD 408—THESIS—1 cr. (0 and 3)

The development of an original solution to a current machine design problem. *Prerequisite:* DD 401.

DD 460—MECHANICAL VIBRATIONS—3 cr. (3 and 0)

A study of mechanical vibrations with emphasis upon the solution of practical problems in the design and construction of machinery and structures. The study includes free vibrations with and without damping; forced vibrations; systems of one, two and many degrees of freedom; Raleigh's method applied to linear vibrations; Holzer's method applied to torsional vibrations; equivalent systems; measuring instruments; absorbers and dampers; the seismograph; self-excited vibrations; non-linear systems. *Prerequisite:* Mech 303 and 304.

DD 464—LUBRICATION—2 cr. (2 and 0)

Application of hydrodynamic and hydrostatic theory to the design and analysis of journal and thrust bearings. *Prerequisite:* DD 401.

DD 501—DESIGN PROBLEMS IN VIBRATIONS AND DYNAMICS—3 cr. (3 and 0)

DD 502—PLASTICITY—3 cr. (2 and 3)

DD 503—PHOTOELASTICITY—3 cr. (2 and 3)

ECONOMICS

MR. EPTING

MR. LANDER, MR. TREVILLIAN, MR. BIGGS, MR. DAVIS,

*MR. MACAULAY, MR. WOOD

ECON 201—PRINCIPLES OF ECONOMICS—3 cr. (3 and 0)

An introduction to 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)

A study of the economics of the labor market, the problems of the industrial worker, and the development of methods of adjusting labor-management disputes. *Prerequisite:* Econ 201 and 202 or permission of the instructor.

* On leave.

ECON 302—MONEY AND BANKING—3 cr. (3 and 0)

A survey of the financial organization of society. Consideration of monetary systems, foreign exchange, credit instruments and principal types of financial institutions. Problems of credit control, monetary stabilization, banking regulation and reform are given special emphasis. *Prerequisite:* Econ 201 and 202.

ECON 312—COMMERCIAL LAW—3 cr. (3 and 0)

An introduction to business law with primary attention given to contracts, agency and negotiable instruments. *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 advanced treatment of economic principles. Emphasis is placed on price analysis and the investment market with a liberal use of the Wall Street Journal. *Prerequisite:* Econ 201 and 202.

ECON 401—ELEMENTARY 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 the course consists of lectures and problems. *Prerequisite:* Econ 201 and Junior standing.

ECON 412—INTERNATIONAL TRADE—3 cr. (3 and 0)

A study of the principles governing interregional and international trade. Attention is devoted to the pioneering philosophy of Adam Smith, the achievements of the classical economists, monopolistic competition, monetary nationalism, the balancing of payments between national economies, and the instruments of international cooperation. *Prerequisite:* Econ 201 and 202, or permission of the instructor.

EDUCATION

MR. BOOKER, MR. BROCK, MR. GENTRY, MR. MONROE, MR. WASHINGTON,
MR. WHITE, MR. BOWEN, MR. KIRKLEY, MR. STRIBLING

EDUC 101—ORIENTATION—1 cr. (1 and 0)

The purpose of this course is to aid the freshman in adjusting himself to the college environment and his course of study.

EDUC 236—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.)

EDUC 275—BUILDING PROGRAMS FOR ASSEMBLIES—3 cr. (3 and 0)

Present day methods and materials for a school assembly are stressed. Original ideas, resources and inexpensive materials are given ample consideration. (Offered in Summer Session only.)

EDUC 291—THE TEACHING OF ARITHMETIC IN THE UPPER ELEMENTARY GRADES—3 cr. (3 and 0)

This course covers modern methods of teaching arithmetic in the fourth through the seventh grades. Time is given to a discussion of long division, common fractions and decimals, tests, checking, problem solving and estimating results. It is especially appropriate for those who have experienced difficulties in teaching mathematics in activity programs as well as for those who have used only the traditional approach. (Offered in Summer Session only.)

EDUC 301—INTRODUCTION TO EDUCATION—3 cr. (2 and 3)

This course includes the principles of Education, purposes and objectives of Vocational Education, and the basic principles underlying the development of programs of instruction for the various groups of farm people.

EDUC 302—EDUCATIONAL PSYCHOLOGY—3 cr. (3 and 0)

A study of the nature, capacities, equipment, growth and development of the learner, the role of the environment, the nature and promotion of learning, the growth and maturity of personality and the evaluation of progress in education.

EDUC 305—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.

EDUC 307—INDUSTRIAL EDUCATION LABORATORY—2 cr. (0 and 6)

The purpose of this course is to develop an industrial background for the teacher who is to have charge of a comprehensive industrial program in public schools. This includes drawing, woodworking, metal working and other related areas.

EDUC 308—INDUSTRIAL EDUCATION LABORATORY—2 cr. (0 and 6)

A continuation of Education 307.

EDUC 310—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.)

EDUC 312—THE TECHNIQUES OF INSTRUCTING IN THE GENERAL SHOP—3 cr. (3 and 0)

The philosophy of the general shop program is covered. Major topics discussed in detail include layout of areas of instruction, supervision of the instruction, work assignments and rotation principles, the development and use of instruction sheets and other teaching aids, and special techniques of instruction used in teaching the general shop. (Offered in Summer School only.)

EDUC 320—MODERN TEACHING PRACTICES—3 cr. (3 and 0)

Included is a study of significant educational trends. Emphasis is placed on the school's resources of understanding and methods of meeting the needs

of pupils in social development. Individual help is given those teachers or groups of teachers of particular schools. (Offered in Summer Session only.)

EDUC 321—TEACHING OF NUMBERS IN THE ELEMENTARY SCHOOL—3 cr. (3 and 0)

A study of methods to be used in developing number concepts basic to a sound understanding and use of numbers so that remedial work will be reduced to a minimum. It will include a study of materials, instructional use of testing, grade placement of topics, and a mastery of fundamentals. (Offered in Summer Session only.)

EDUC 322—TEACHING OF SPEECH IN THE ELEMENTARY SCHOOL—3 cr. (3 and 0)

This course is a study of methods and materials used in teaching speech for effective communication as well as recognition and diagnosis of speech defects and simple corrective procedures. (Offered in Summer Session only.)

EDUC 327—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.)

EDUC 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.

EDUC 342—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.)

EDUC 356—PUBLIC EDUCATION IN THE UNITED STATES—3 cr. (3 and 0)

Public education in the United States with special emphasis on education in South Carolina affords a means of studying public education in other states in comparison with South Carolina's set-up. Present and emerging patterns are reviewed. (Offered in Summer Session only.)

EDUC 358—HIGH SCHOOL COACHING—3 cr. (3 and 0)

This course is intended to train prospective high school coaches in the fundamentals of developing individuals and teams. Emphasis is given to educational value of clean sports and particular attention is given to the physical condition of the student body, conditioning and training for competitive participation in football, basketball and baseball. Field laboratory work may be required in addition to the class work. (Offered in Summer Session only.)

EDUC 371—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.)

EDUC 372—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.)

EDUC 381—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.)

EDUC 382—DIRECTED TEACHING IN THE ELEMENTARY SCHOOL—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.) (Offered in Summer Session only.)

EDUC 401—METHODS IN AGRICULTURAL EDUCATION—3 cr. (2 and 3)

In this course, problems in teaching vocational agriculture in high school are considered. Some of the problems are as follows: organizing the teaching program; planning the course of study; making lesson plans; conducting field trips; farm shop work; Future Farmer work; supervised practice programs; and visual aids.

EDUC 402—DIRECTED TEACHING IN INDUSTRIAL 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.) (Offered in Summer Session only.)

EDUC 406—DIRECTED TEACHING—6 cr. (0 and 18)

The purpose of this course is to develop the ability of prospective teachers to organize courses in vocational agriculture based on community farm problems and practices, to conduct classes in accordance with sound educational principles of teaching, to gain experience in teaching, and to develop confidence in themselves as teachers. During the course, opportunity is given to observe and teach in high school departments of vocational agriculture, under the supervision of the local teacher and a member of the agricultural education faculty. The teaching of adult groups is given special consideration, as well as teaching farmers to use the cannery, shop and other community services. Some observation and practice teaching will be done near the college. Six weeks of

directed teaching away from the campus will be required. All back work must be completed before this period. *Prerequisite:* Educ 401 and Educ 422.

EDUC 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.) (Offered in Summer Session only.)

EDUC 415—ADMINISTRATION OF VOCATIONAL AND OTHER SCHOOLS—3 cr. (3 and 0)

A course intended to acquaint the prospective teacher with modern administration technique in public education. Topics covered include: the public school curriculum, the administration of vocational departments, the duties of the principal and his relationship to the school board. Attention is also given to certain legal phases of school administration.

EDUC 420—EDUCATIONAL AND VOCATIONAL GUIDANCE—3 cr. (3 and 0)

A study is made of need, meaning, basic assumptions, aims and objectives of guidance; general methods of investigation; use of school records, explanatory activities, tests, estimates of personality traits, and self-analysis as methods of studying the individual; methods of study of occupations; guidance of students in choice of occupation; choice of training, and organization of guidance.

EDUC 421—COORDINATION METHODS IN VOCATIONAL EDUCATION—2 cr. (2 and 0)

A study is made of the major occupations in the United States and in South Carolina in order that prospective teachers may become informed as to possibilities in them and more intelligently give guidance to high school students. A survey is made of the youth problem, employment trends, general industrial conditions, kind of men industries want, survey of industrial plants, testing for mechanical aptitude, organizing occupations course in high school.

EDUC 422—PROBLEMS IN ADULT EDUCATION—3 cr. (2 and 3)

This course should follow or be taken concurrently with Educ 404. Determining the needs, securing and organizing necessary instructional material, planning lessons; teaching and supervising adult farmers or special groups receive major emphasis. The use of surveys, visual aids, publicity, school canneries, shop and other community services is included.

EDUC 424—TECHNIQUE 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.

EDUC 431—METHODS IN CONSERVATION EDUCATION—3 cr. (3 and 0)

Student teachers will study various techniques appropriate to teaching conservation in the public schools. Emphasis will be placed upon the individual

farm home, private and public grounds, and buildings including schools, churches, forests, orchards and flower gardens. Problems and projects, individual groups will be utilized. The coordination of elementary, high school, young farmer, and other efforts in soil and forest conservation will be basic. (Offered in Summer Session only.)

EDUC 442—TRADE COMPETENCY TESTING—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.)

EDUC 446—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 art 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.)

EDUC 451—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.)

EDUC 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. and the educative process. (Offered in Summer Session only.)

EDUC 454—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.)

EDUC 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.

EDUC 460—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.)

EDUC 463—ADVANCED CONSERVATION EDUCATION—3 cr. (3 and 0)

The broader aspects of Conservation Education as applied to soil, water, forests and other natural resources will be considered in this course. Persons who have administrative responsibilities in extending the study of conservation may select an individual problem which may be investigated and a special report submitted if graduate credit in this course is desired. The general course involves historical, geographical and national conservation problems. National agencies which participate in the promotion of conservation education may be called upon. The United States Office of Education and the Soil Conservation Service of the United States Department of Agriculture will be cited if helpful in this field. Representatives may visit with the classes and lead specific discussions. (Offered in Summer Session only.)

EDUC 468—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.)

EDUC 494—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.)

EDUC 496—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. The major topics to be emphasized in the discussions include importance and nature of public relations in the school; establishing the structure for effective public relations in school; methods of cooperating with industrial, business and professional groups; school personnel service, placement and followup of vocational students; use of school papers, newspapers, radio and television as public relations mediums; dealing with organized and unorganized labor; cooperation of school in apprentice training; trade extension classes and development of courses by the school to meet community needs. (Offered in Summer Session only.)

EDUC 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.

EDUC 501—RECENT DEVELOPMENTS IN THE TECHNOLOGY OF AGRICULTURE—3 cr. (2 and 3)**EDUC 502—RECENT DEVELOPMENTS IN THE TECHNOLOGY OF AGRICULTURE—3 cr. (2 and 3)**

EDUC 503—ADVANCED METHODS IN TEACHING—3 cr. (3 and 0)

EDUC 504—SPECIAL PROBLEMS IN TEACHING VOCATIONAL AGRICULTURE—3 cr. (2 and 3)

EDUC 505—OCCUPATIONAL GUIDANCE AND PLACEMENT—3 cr. (3 and 0)

EDUC 506—HISTORY AND PHILOSOPHY OF EDUCATION—3 cr. (3 and 0)

EDUC 508—EDUCATIONAL TESTS AND MEASUREMENTS—3 cr. (3 and 0)

EDUC 509—ANALYSIS OF THE INDIVIDUAL—3 cr. (3 and 0)

EDUC 511—PUBLIC SCHOOL ADMINISTRATION (FINANCE)—3 cr. (3 and 0)

EDUC 513—EDUCATIONAL AND OCCUPATIONAL INFORMATION—3 cr. (3 and 0)

EDUC 515—ADVANCED METHODS OF TEACHING FARM MECHANICS—3 cr. (3 and 0)

EDUC 516—HISTORY AND PHILOSOPHY OF VOCATIONAL EDUCATION—3 cr. (3 and 0) (Offered in Summer Session only.)

EDUC 517—AUDIO-VISUAL AIDS IN TEACHING—3 cr. (2 and 3)

EDUC 518—ORGANIZATION AND ADMINISTRATION OF ELEMENTARY SCHOOL—3 cr. (3 and 0) (Offered in Summer Session only.)

EDUC 520—TEACHING YOUNG FARMERS—3 cr. (3 and 0)

EDUC 521—ADULT EDUCATION DEVELOPMENT AND ADMINISTRATION—3 cr. (3 and 0)

EDUC 525—SUPERVISION OF STUDENT TEACHING—3 cr. (3 and 0)

EDUC 530—TECHNIQUES OF SUPERVISION—THE PUBLIC SCHOOLS—3 cr. (3 and 0) (Offered in Summer Session only.)

EDUC 531—PUBLIC SCHOOL EVALUATION—3 cr. (3 and 0) (Offered in Summer Session only.)

EDUC 561—ADMINISTRATION AND SUPERVISION OF VOCATIONAL EDUCATION—3 cr. (3 and 0)

EDUC 591—INTRODUCTION TO RESEARCH IN EDUCATION—3 cr.

EDUC 592—RESEARCH IN AGRICULTURAL EDUCATION—3 cr.

EDUC 594—RESEARCH IN EDUCATION—3 cr.

EDUC 596—RESEARCH IN INDUSTRIAL EDUCATION—3 cr.

ELECTRICAL ENGINEERING

MR. THURSTON

MR. ADAMS, MR. LONG, MR. POE, MR. BALL, MR. GOODIN,

MR. KERSEY, MR. MARTIN

EE 214—ELECTRIC CIRCUITS AND FIELDS—3 cr. (3 and 0)

An introductory course in the fundamental theory of electric and magnetic circuits and fields. *Prerequisite:* Math 204, Phys 214 and 216 or enrollment in Math 204, Phys 214, 216 and Sophomore standing.

EE 303—BASIC ELECTRICITY—4 cr. (3 and 3)

An elementary course in electric circuits, machinery, and electronics, planned for students in Industrial Education and Industrial Management. *Prerequisite:* Math 104, Phys 202 and 204.

EE 305—ELECTRIC CIRCUITS AND MACHINES—4 cr. (3 and 3)

An elementary course in circuits and machines, with examples from industry to illustrate the theory. Planned for Agricultural Engineering and Civil Engineering students. *Prerequisite:* Math 204, Phys 212 and 214.

EE 307 BASIC ELECTRICAL ENGINEERING—3 cr. (3 and 0)

A course in electrical engineering for students who need a sound background in the subject, but who are not planning to specialize in electrical engineering. The first term includes a study of d-c and a-c circuits, magnetic phenomena, and principles of basic machinery. *Prerequisite:* Math 204, 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 311—DIRECT-CURRENT MACHINERY—4 cr. (3 and 3)

The theory, construction and operating characteristics of direct current generators, motors and control equipment, accompanied by a coordinated series of laboratory tests. *Prerequisite:* EE 214 and Junior standing.

EE 313—BASIC ELECTRICAL MEASUREMENTS—3 cr. (2 and 3)

Principles of electrical measurements. Use of various types of indicating instruments with emphasis upon precision of measurement, and how to minimize the effects of unavoidable errors. *Prerequisite:* EE 214 and Junior standing.

EE 315—ALTERNATING-CURRENT CIRCUITS—3 cr. (3 and 0)

A comprehensive study of alternating-current fundamentals. Use of the vector algebra method of solution of circuit problems. *Prerequisite:* EE 214 and Junior standing.

EE 316—ALTERNATING-CURRENT CIRCUITS—4 cr. (3 and 3)

A continuation of EE 315 including the solution of problems involving non-sinusoidal currents, coupled circuits and balanced and unbalanced poly-phase systems. Coordinated laboratory experiments included. *Prerequisite:* EE 315 and Junior standing.

EE 320—ELECTRONICS—4 cr. (3 and 3)

An introduction to electron tubes and circuits. Embraces thermionic emission, vacuum and gas filled tubes, photo-sensitive devices, cathode-ray tubes and

rectifiers. Includes laboratory investigations and demonstrations. *Prerequisite:* EE 315, enrollment in or credit for EE 316, and Junior standing.

EE 405—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 320, credit for or enrollment in EE 411 and Senior standing.

EE 406—ENGINEERING ANALYSIS—1 cr. (0 and 3)

A continuation of EE 405. *Prerequisite:* EE 405.

EE 411—ALTERNATING-CURRENT MACHINERY—5 cr. (3 and 6)

The application of fundamental circuit theory to alternating-current machinery. Study of the construction, theory and operating characteristics of transformers and synchronous generators. *Prerequisite:* EE 311, 316 and Senior standing.

EE 412—ALTERNATING-CURRENT MACHINERY—4 cr. (3 and 3)

A continuation of EE 411 covering the theory, operating characteristics and industrial applications of synchronous motors, induction motors and single-phase motors. *Prerequisite:* EE 411 and Senior standing.

EE 415—ADVANCED CIRCUITS—3 cr. (3 and 0)

A continuation of EE 316 embracing studies of transmission line calculations, electric filters, symmetrical components and power short-circuit calculations. *Prerequisite:* EE 316 and Senior standing.

EE 422—ELECTRIC DISTRIBUTION—2 cr. (2 and 0)

Technical and economic features of electrical power distribution systems for urban and rural areas. Includes reference studies. *Prerequisite:* EE 411, 415.

EE 425—ELECTRIC TRANSIENTS—3 cr. (3 and 0)

A course covering the physical phenomena and mathematical analysis of linear electric circuits in the transient state. Both the classical and Laplace-transform methods are used. *Prerequisite:* EE 316, Math 306.

EE 427—ADVANCED A.C. MACHINERY—3 cr. (3 and 0)

Supplementary to EE 411 and EE 412 and covering special and more complex features of power equipment. Planned for Electrical Engineering students electing Electric Power Engineering. *Prerequisite:* EE 411, and enrollment in or credit for EE 412.

EE 431—RADIO COMMUNICATION—4 cr. (3 and 3)

A study of the component circuits involved in radio communication systems; audio and radio frequency amplifiers, detectors, oscillators, amplitude modulation systems, power supplies and transmitter and receiver circuits. *Prerequisite:* EE 316, 320, and enrollment in or credit for EE 415.

EE 432—RADIO COMMUNICATION—4 cr. (3 and 3)

A continuation of EE 431. Includes frequency modulation, antennas and radio frequency transmission lines, ultra high frequency oscillators and detectors, and elementary acoustics and sound systems. *Prerequisite:* EE 431.

EE 434—INDUSTRIAL ELECTRONIC CONTROLS—3 cr. (2 and 3)

The theory and application of electronics to industrial control equipment. Includes fundamentals of servo-mechanisms, speed and voltage regulators, power rectifiers, high frequency heating, photo-electric control, X-ray control, etc. *Prerequisite:* EE 308 and EE 310 or 320.

EE 436—RADIATION AND WAVE PROPAGATION—3 cr. (3 and 0)

An advanced study of electric fields, vector analysis, Maxwell's equations, wave guides, radiation, antennas and propagation of waves in space. *Prerequisite:* EE 431.

EE 501—TRANSIENTS IN LINEAR SYSTEMS—3 cr. (3 and 0)**EE 511—ELECTRIC POWER STATIONS—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 591—RESEARCH—3 cr.****EE 592—RESEARCH—3 cr.****ENGLISH**

Mr. COX

MR. C. B. GREEN, MR. J. C. GREEN, MR. KINARD, MR. LANE, MR. OWINGS,
MR. TAYLOR, MR. BAIR, MR. MACINTOSH, MR. WILSON, *MR. BENNETT,
MR. CASKEY, MR. FELDER, *MR. GOLDCAR, MR. HOLT, MR. MCGEE,
MR. PURSER, MR. WATSON, MR. WINTER, MR. ABEL,
MR. MACKENZIE

ENGL 100—REMEDIAL ENGLISH—Non-credit (3 and 0)

A refresher course for students failing the placement test for English 101; a thorough review of grammar, punctuation and sentence structure with drill in general correctness.

ENGL 101—ENGLISH COMPOSITION—3 cr. (3 and 0)

A course intended to train the student in correct and effective expression. *Prerequisite:* Satisfactory score on the English placement test or successful completion of Engl 100.

ENGL 102—ENGLISH COMPOSITION—3 cr. (3 and 0)

In addition to continued emphasis on correct and effective expression, this course offers 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)

A study of the chief authors and works in English literature from *Beowulf* to the beginning of the Romantic movement. *Prerequisite:* Engl 102.

ENGL 204—A SURVEY OF ENGLISH LITERATURE—3 cr. (3 and 0)

A continuation of English 203 including a study of the chief authors of the Romantic and Victorian periods. *Prerequisite:* Engl 102.

* On leave.

ENGL 300—ENGLISH AT WORK—1 to 4 cr.

A study of the duties and responsibilities assumed by students who edit uncensored publications. Professional journalists and other qualified individuals from the campus and elsewhere lead the discussions and offer constructive criticism. As often as practicable, the most recent issue of a student publication is selected for discussion. Enrollment is limited to staff members of student publications. Extra credits by approval of Faculty Adviser only. *Prerequisite:* Engl 102.

ENGL 301—PUBLIC SPEAKING—3 cr. (3 and 0)

A course of practical training in public speaking; the improvement of diction, voice and platform presence; an introduction to parliamentary procedure; practice in writing and delivering short speeches. *Prerequisite:* Engl 203 and 204.

ENGL 401—ADVANCED COMPOSITION—3 cr. (3 and 0)

A writing course for students who wish additional exercise in writing under supervision. Following minimum instruction and exercise in the basic types of writing—narration, description and exposition—the course becomes a laboratory, with each student undertaking writing projects according to his interests. Some attention is given to reports, business letters, and research methods and materials. Students majoring in English minimize technical aspects of writing and concentrate upon the essay. Weekly papers and some longer exercises. Spring term only. Enrollment limited to twelve. *Prerequisite:* English 203 and 204.

ENGL 405—SHAKESPEARE—3 cr. (3 and 0)

A course intended to give the student a comprehensive acquaintance with Shakespeare's plays and some understanding of his development as a dramatist. *Prerequisite:* Engl 203 and 204.

ENGL 406—SHAKESPEARE—3 cr. (3 and 0)

A continuation of Engl 405. *Prerequisite:* Engl 203 and 204.

ENGL 409—CHAUCER—3 cr. (3 and 0)

A study of Chaucer as an artist, beginning with a reading of the "Prologue" for historical and linguistic orientation. The *Canterbury Tales*, *House of Fame*, and *Parliament of Fowls* are studied as art forms. *Prerequisite:* Engl 203 and 204.

ENGL 415—INTRODUCTION TO DRAMA—3 cr. (3 and 0)

A study of principles and progress of drama from Aeschylus to Ibsen, analysis of representative plays, writing of critical reports, practice in classroom reading of great scenes. *Prerequisite:* Engl 203 and 204.

ENGL 416—INTRODUCTION TO DRAMA—3 cr. (3 and 0)

A study of principles and progress of drama from Ibsen to the present day, analysis of representative plays, writing of critical reports, classroom reading of great scenes, and discussion of important aspects of modern drama. *Prerequisite:* Engl 203 and 204.

ENGL 419—SELECTED MASTERPIECES—3 cr. (3 and 0)

A study of a variety of literary masterpieces, principally from English literature but including some world literature in English translation, with emphasis on acquaintance with and appreciation of individual outstanding works. *Prerequisite:* Engl 203 and 204.

ENGL 420—SELECTED MASTERPIECES—3 cr. (3 and 0)

A continuation of English 419 using different selections. *Prerequisite:* Engl 203 and 204.

ENGL 423—AMERICAN LITERATURE—3 cr. (3 and 0)

A course intended to give the student a more thorough knowledge and a deeper appreciation of the literature of the United States; beginning with the earlier selections and outstanding authors, the study ends with the period immediately preceding the Civil War; special emphasis is given to Poe, Emerson, Hawthorne, and Melville. *Prerequisite:* Engl 203 and 204.

ENGL 424—AMERICAN LITERATURE—3 cr. (3 and 0)

A continuation of study from Whitman to the present with emphasis upon the literature of the South. *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)

A study of representative works from Tennyson, Browning, Carlyle and John Stuart Mill, including some consideration of the intellectual, social and political life of England in the first half of the nineteenth century. *Prerequisite:* Engl 203 and 204.

ENGL 428—VICTORIAN LITERATURE—3 cr. (3 and 0)

A study of representative works from Arnold, Swinburne, Ruskin and Pater, and an examination of some of the theories of life and art which influenced the writings of these men. *Prerequisite:* Engl 203 and 204.

ENGL 429—THE ENGLISH NOVEL—3 cr. (3 and 0)

A survey of major English novelists from Defoe to Scott. Selections vary from year to year, and students are allowed some latitude in their choice of readings. *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—RESTORATION AND EIGHTEENTH CENTURY—3 cr. (3 and 0)

Readings in Dryden, Swift, Pope, and Dr. Johnson.

ENTOMOLOGY

MR. COCHRAN

MR. DUNAVAN, MR. GOODWIN, MR. WARNHOFF

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 302—GENERAL ENTOMOLOGY—3 cr. (2 and 3)

This course designed especially for students who take major work in Entomology provides basic training in general phases of Entomology covering especially metamorphosis, classification, habits and characteristics of members of principal families of all orders of insects. Special attention is also given to technique of collecting and preserving insects. *Prerequisite:* Zool 101, 103 and Ent 301.

ENT 401—ECONOMIC ENTOMOLOGY—3 cr. (2 and 3)

This course affords training in identification and life-histories of injurious insects, their damage, and control measures. Common pests of the following are studied: corn, small grains, legume field crops, tobacco, sugar cane, stored grain and seed, livestock and man. *Prerequisite:* Zool 101, 103 and Ent 301.

ENT 402—ECONOMIC ENTOMOLOGY—3 cr. (2 and 3)

An intensive study of insecticides 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 405—INSECT MORPHOLOGY—3 cr. (2 and 3)

A course especially arranged for students with major work in Entomology. A detailed study of external and internal anatomy of insects. *Prerequisite:* Ent 301 and Ent 302.

ENT 406—BEEKEEPING—3 cr. (2 and 3)

A study of practical beekeeping methods. Each student personally manages a hive of bees throughout the term. Special attention is given to bee behavior, spring and fall management and honey production methods. *Prerequisite:* Ent 301.

ENT 451—RESEARCH TECHNIQUES AND METHODS—2 cr. (1 and 3)

A study of approved methods of investigating entomological problems. Each student conducts a study of the life history of several insects. Laboratory techniques using insects for biological research are applied to a minor problem.

ENT 452—TAXONOMIC ENTOMOLOGY—2 cr. (1 and 3)

A study of principles involved in the systematic classification of insects with some attention to historical aspects including great taxonomists of the past. Intensive studies of generic characteristics of insects in several major families are made. *Prerequisite:* Zool 101, 103, Ent 301 and 302.

ENT 455—MEDICAL AND VETERINARY ENTOMOLOGY—3 cr. (2 and 3)

A course designed to study the insects and their arthropod relatives which are of considerable economic importance in their effect on man and animals.

ENT 456—PARASITOLOGY—3 cr. (2 and 3)

Designed to give technical training in parasites affecting man and domestic animals. Life cycles, vectors and practical controls are emphasized.

ENT 460—SEMINAR—2 cr. (2 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 302.

ENT 505—ADVANCED MORPHOLOGY—3 cr. (2 and 3)

ENT 552—ADVANCED SYSTEMATIC ENTOMOLOGY—2 cr. (0 and 6)

ENT 556—MEDICAL ENTOMOLOGY—3 cr. (2 and 3)

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 cr. (3 and 6)

ENT 591—RESEARCH—3 cr.

ENT 592—RESEARCH—3 cr.

FORESTRY

MR. LEHOTSKY

FOR 201, 203—INTRODUCTION TO FORESTRY—3 cr. (2 and 3)

A general introduction to and survey of the field of forestry. An introductory course for Pre-Forestry students, and a survey of the field of regional, national and world forestry problems arranged for non-foresters. The forest resource and its place in human welfare.

FOR 202, 204—DENDROLOGY—4 cr. (3 and 3)

The identification of the commercially important trees of the United States including nomenclature; family, genus and species characteristics; range and distribution. Field identification of the trees native to South Carolina and of commonly planted exotics. *Prerequisite:* Bot 101 and 103.

FOR 205, 207—FARM FORESTRY—3 cr. (2 and 3)

A study of the general problems dealing with the scientific management of small forest areas. Tree identification, tree measurements, forest measurements, forest products, silvicultural management of the important forest types of the region, intermediate and final cuttings, plantations, marketing of forest products and forest protection. Laboratory and field work on college forest lands and forestry operations. *Prerequisite:* Bot 101 and 103.

FRENCH

MR. DEAN

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—ADVANCED FRENCH—3 cr. (3 and 0)

Rapid reading of difficult literary or scientific French prose.

FR 302—ADVANCED FRENCH—3 cr. (3 and 0)

A continuation of Fr 301, with selections being made to suit the needs of the students.

GEOGRAPHY

MR. CARPENTER

GEOG 301—ECONOMIC GEOGRAPHY—3 cr. (3 and 0)

A study of the geographic conditions fundamental to the world's resources—agricultural, mineral and industrial, and the conditions which affect their production, exchange and consumption. A special study is made of the South. *Prerequisite:* Junior standing.

GEOG 302—POLITICAL GEOGRAPHY—3 cr. (3 and 0)

A study of the geopolitical pattern of great powers, nations and dependencies; their territorial structure, resources and connections. An examination of the principles of political geography and their application to current history, from an American geographical viewpoint. *Prerequisite:* Junior standing.

GEOLOGY AND MINERALOGY

MR. BROWN

MR. TINGLE

GEOL 201—AGRICULTURAL GEOLOGY—3 cr. (3 and 0)

An introduction to physical geology with emphasis on the application of geology to problems in agriculture.

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 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.

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.

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.

GERMAN

MR. RHYNE

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 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.

GOVERNMENT

MR. EPTING

MR. BOLEN, MR. CROUCH, MR. LANDER, MR. WILLIAMS, MR. WEBB,
MR. CARPENTER, MR. TUTTLE

GOV 101—AMERICAN NATIONAL GOVERNMENT—3 cr. (3 and 0)

A survey of 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)

A study of the constitution; powers and functions of executive, legislative and judicial branches; citizenship; expansion of governmental activities; relations to the states and territories. A study of the nature, development, organization and methods of political parties, and the conduct of elections. *Prerequisite:* Not open to those who have completed Gov 101.

Gov 302—STATE AND LOCAL GOVERNMENT—3 cr. (3 and 0)

An integrated study of American state and local government structural features and functions, and their legislative, administrative and judicial processes.

Gov 401—COMPARATIVE GOVERNMENT—3 cr. (3 and 0)

A study of the historical development of present-day political institutions and a comparison of the functioning of these institutions in the United States, Great Britain, Russia, Switzerland and other countries. *Prerequisite:* Gov 101 and permission of the instructor.

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. LANDER, MR. WILLIAMS, MR. WEBB,
MR. CARPENTER, MR. TUTTLE

HIST 101—AMERICAN HISTORY—3 cr. (3 and 0)

A survey of 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)

A survey of the political, economic and social development of the American people from the end of the Civil War to the present.

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)

A study of the political, economic and social institutions, as well as the outstanding personalities 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)

A study of the political, economic and social conditions and institutions, as well as the outstanding personalities of Western Civilization from 1660 to the present. *Prerequisite:* Junior standing or permission of instructor.

HIST 306—AMERICAN BIOGRAPHY—3 cr. (3 and 0)

A study of political leaders of the United States with emphasis on the significance of leadership in United States history and critical appreciation of biographical writing. *Prerequisite:* Junior standing.

HIST 309—HISTORY OF ENGLAND—3 cr. (3 and 0)

A study of the economic, political and social institutions of the English people from early times to the present. *Prerequisite:* Junior standing.

HIST 311—HISTORY OF LATIN AMERICA—3 cr. (3 and 0)

A survey of the political, economic, social and cultural development of Latin America. *Prerequisite:* Junior standing.

HIST 315—CONSTITUTIONAL HISTORY OF THE U. S.—3 cr. (3 and 0)

A study designed to acquaint the student with the development of the constitution of the United States, and the changes which it has undergone through the different interpretations of the Supreme Court. *Prerequisite:* Junior standing.

HIST 401—HISTORY OF SOUTH CAROLINA—3 cr. (3 and 0)

A study of the political, economic and social conditions and institutions of South Carolina from 1670 up to the present.

A special feature is a study of the outstanding personalities and of the historical literature. *Prerequisite:* Junior or Senior standing or permission of instructor.

HIST 403—HISTORY OF THE SOUTH TO 1865—3 cr. (3 and 0)

A study of the geography and climate of the South and the origins and development of political, economic, social and cultural institutions. *Prerequisite:* Junior standing.

HIST 404—HISTORY OF THE SOUTH SINCE 1865—3 cr. (3 and 0)

A study of the economic and social changes in the South during the Reconstruction period, and of trends in industrialization, agriculture, politics, race relations and culture to the present. *Prerequisite:* Junior standing.

HIST 405—THE AMERICAN FRONTIER—3 cr. (3 and 0)

A study of American expansion westward from the original colonies. The course considers both the early West and the Trans-Mississippi West. *Prerequisite:* Junior standing.

HIST 406—HISTORY OF MANUFACTURING IN THE UNITED STATES—3 cr. (3 and 0)

A study of the growth of manufacturing in the United States since the Revolutionary War. The course considers the economic, political and social effects of industrial growth on American history. *Prerequisite:* Junior standing.

HIST 407—A DIPLOMATIC HISTORY OF THE UNITED STATES—3 cr. (3 and 0)

A history of United States foreign relations from 1775 to date with emphasis being placed upon the directing forces, particularly public opinion, that have shaped American diplomatic policies. Also stressed are the causes and results of all foreign wars in which the United States has been engaged. *Prerequisite:* Junior standing.

HIST 408—EUROPE SINCE 1914—3 cr. (3 and 0)

A history of Europe since the beginning of World War I with emphasis being placed upon the rise of the Communist, Fascist and National Socialist regimes in Russia, Italy and Germany, respectively; included also is World War II and its aftermath. *Prerequisite:* Junior standing.

HORTICULTURE

MR. MUSSER

MR. HAMILTON, MR. SEFICK, MR. SENN, MR. THODE, MR. VAN BLARICOM

HORT 201—GENERAL HORTICULTURE—3 cr. (2 and 3)

A study of the fundamental plant processes, the influence of light, temperature, water and nutrients upon vegetative growth and reproduction of horticultural crops. 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, 103 and Chem 101.

HORT 301—PRINCIPLES OF VEGETABLE PRODUCTION—3 cr. (2 and 3)

A study of 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, roadside marketing and seed production. *Prerequisite:* Hort 201.

HORT 305—PLANT PROPAGATION AND NURSERY MANAGEMENT—3 cr. (2 and 3)

A study of methods of propagation; time, manner and material for making cuttings; temperature and media for rooting cuttings of ornamental trees, shrubs and flowering plants; propagating structures, soils, fertilizers and management methods for commercial nurseries. Practical instruction given in field and greenhouse. *Prerequisite:* Hort 201.

HORT 306—ELEMENTARY LANDSCAPE DESIGN—3 cr. (2 and 3)

The first half of this course is devoted to 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 401—LANDSCAPE DESIGN—3 cr. (2 and 3)

A study of woody plant material with emphasis on uses and effects. Design and execution of landscape plans for large residential properties, multi-family dwellings, industrial grounds and commercial buildings. Interior planting of such buildings is included in this course. *Prerequisite:* Hort 306.

HORT 402—GARDEN DESIGN—3 cr. (2 and 3)

The first half of this course is devoted to a study of herbaceous plant material commonly used as garden flowers. Attention is given to cultural

requirements, uses and effects. The second half of the course is devoted to designing in detail plantings of herbaceous material. *Prerequisite:* Hort 306.

HORT 405—NUT CULTURE AND SPRAYS—3 cr. (2 and 3)

Part I—Nut Culture—a study of production, harvesting and marketing of the principal nut crops with emphasis on the pecan.

Part II—Sprays and application equipment—a study of the properties of spray chemicals, their influence on plant functions, effectiveness in controlling pests of horticultural crops, and methods of application. *Prerequisite:* Hort 201.

HORT 409—SEMINAR—1 cr. (1 and 0)

A study of 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 415—FLORICULTURE—3 cr. (2 and 3)

A study of greenhouse production of commercial flower crops, soils, fertilizers, greenhouse diseases and insects, flower crops (major crops: roses, carnations, chrysanthemums; minor crops: sweet peas, snapdragons, violets, calendula, asters, gardenia, poinsettia, bulbs in variety) to be grown on benches and as pot plants; marketing and costs of production. *Prerequisite:* Hort 201 and 305.

HORT 451—SYSTEMATIC POMOLOGY AND SMALL FRUIT CULTURE—3 cr. (2 and 3)

Part I—Systematic Pomology—A study of the structure of fruit plants—physiological characters; methods of work in systematic pomology; habitat, history, color, form, structure, flavor and use of fruits; judging and displaying fruits.

Part II—Small Fruit Culture—A study of varieties, soils, sites, culture, fertilizers, harvesting and preparation for marketing of grapes, strawberries, dewberries, blackberries, raspberries and other small fruits. *Prerequisite:* Hort 201.

HORT 452—COMMERCIAL POMOLOGY—3 cr. (2 and 3)

A study of 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 455—BREEDING HORTICULTURAL CROPS—3 cr. (2 and 3)

A study of the principles and practices of plant breeding. The principal topics include: inheritance of characters, modes of reproduction, techniques of selfing and crossing, selection, hybridization, disease and insect resistance, application of biometrical analysis, and field plot technique. *Prerequisite:* Agron 302.

HORT 456—TRUCK CROPS—3 cr. (2 and 3)

A detailed study of the principles and practices employed in the growing and marketing of truck crops. Emphasis is placed on plant characteristics,

varieties, soils, fertilizers, harvesting and preparation for market. *Prerequisite:* Hort 201.

HORT 460—ADVANCED LANDSCAPE DESIGN—3 cr. (2 and 3)

A study of civic improvement, mill villages, public buildings, squares, parks, storm water control, water courses, lakes, lawns, drives and walks; trees and shrubs and their requirements; study of finished problems in landscape design, original problems, field work and costs. *Prerequisite:* Hort 306 and 401.

HORT 464—FOOD PRESERVATION—3 cr. (2 and 3)

Theoretical background and fundamental processes of food preservation. The course includes modern canning technique for community and commercial canneries; frozen food preservation; study of important crops grown in South Carolina suitable for canning; factors which influence the commercial operation of a cannery; causes of food spoiling; factors which influence quality packs; U. S. Standard grades for canned goods; and a study of jams, jellies and preserves, dehydration and pickle manufacturing. *Prerequisite:* Bact 301 and 303.

HORT 466—RESEARCH METHODS—3 cr. (2 and 3)

A study of the development and changes in research methods which are valuable or of potential value in investigating horticultural problems. Students obtain practice in the use and maintenance of various research instruments and equipment. *Prerequisite:* Senior standing.

HORT 501—PROBLEMS IN SMALL FRUIT PRODUCTION—3 cr. (2 and 3)

HORT 503—ADVANCED VEGETABLE CROPS—3 cr. (2 and 3)

HORT 505—FOOD TECHNOLOGY—3 cr. (1 and 6)

HORT 507—ADVANCED POMOLOGY—3 cr. (2 and 3)

HORT 591—RESEARCH—3 cr.

HORT 592—RESEARCH—3 cr.

INDUSTRIAL ARTS

MR. MARSHALL

MR. BROCK

IN AR 101—GENERAL WOODWORK—1 cr. (0 and 3)

A general course designed to teach the fundamental principles of wood-working. Tool processes common to all woodworking trades are stressed. Cabinet making is emphasized throughout the course because of its universal interest and appeal.

IN AR 302—INDUSTRIAL ARTS—1 cr. (0 and 3)

An elective course in advanced machine woodworking including the making of well-designed furniture and cabinets; also wood finishing materials and their application. *Prerequisite:* In Ar 202 or In Ar 101.

IN AR 303—TEACHING INDUSTRIAL ARTS—2 cr. (1 and 3)

A course designed to give prospective teachers of Industrial Arts intensive practice in the use of hand woodworking tools, the object being to develop

those skills necessary in demonstrating tool operations to first year high school students in woodwork. Practice teaching of the above subject is also given during the theory hour under the guidance of the instructor.

IN AR 304—SCHOOL SHOP MANAGEMENT—2 cr. (1 and 3)

An advanced course in machine woodworking for teachers. Adjusting, care and appreciation of woodworking machines. Safety first in operation is stressed. Good furniture construction, finishing and finishing materials and their application by both hand and spray technique. Planning and equipping the ideal school shop along with the shop budget is stressed.

IN AR 306—INDUSTRIAL ARTS—3 cr. (2 and 3)

Introduction to elementary woodworking principles. Construction of visual aid projects for use in both primary and elementary school rooms. *Prerequisite:* Approval of instructor.

IN AR 307—INDUSTRIAL ARTS—3 cr. (1 and 6)

At least three projects adapted to visual aid instruction in public school education. Projects to require elementary knowledge of woodworking principles and machines. Distinguishing features of period furniture to enable identification of styles of Chippendale, Sheraton, etc. Introduction to principles of woodturning. *Prerequisite:* In Ar 306.

INDUSTRIAL ENGINEERING

MR. FREEMAN

MR. MARSHALL, MR. BROCK,^o MR. STENSTROM, MR. COUCH,
MR. MEEKS, MR. NEWTON

IE 101—MANUFACTURING PROCESSES—2 cr. (0 and 6)

A general course in industrial processes and materials for engineering students giving them an insight into materials and methods employed in the engineering profession. This course covers briefly the following: pattern making, foundry, heat treating, sheet metal layout, electric and gas welding. The work is handled through lecture, demonstration and practical work.

IE 201—METAL PROCESSES—2 cr. (1 and 3)

A study of metal cutting processes, including the possibilities and limitations in machine tool operation, job order, lot intermittent and mass production principles. The work is covered by lecture and shop practice with the fundamental machine and hand tools. *Prerequisite:* DD 106, Math 103, IE 101.

IE 204—ENGINEERING MATERIALS—2 cr. (2 and 0)

A qualitative treatment of the properties of materials used in manufacturing and construction, to include methods of forming and testing.

IE 302—WELDING—2 cr. (1 and 3)

A study of the identification and weldability of metals; the equipment used; safe practices; welding materials and supplies; pre-treatment and after-treat-

^o On leave.

ment of welds; jigs and fixtures; inspection and testing; the cost of welding. *Prerequisite:* IE 101.

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 installed and their maintenance also studied. *Prerequisite:* Junior or Senior standing.

IE 304—MOTION AND TIME STUDY—3 cr. (2 and 3)

The scientific analysis of work methods, human motion and time standards. Examples and projects are chosen from a wide variety of industries to acquaint the student with the general application of Motion and Time Study. *Prerequisite:* Junior or Senior standing.

IE 305—WORK SIMPLIFICATION AND STANDARDIZATION—3 cr. (3 and 0)

A study of the principles and practices of motion and time as it is applied to industry. Particular emphasis is given to its application and its influence on methods, material handling, plant layout, production control and time study procedures. *Prerequisite:* IE 101, DD 105, DD 106, Math 103, Math 104 and Junior standing.

IE 310—INTRODUCTION TO THE ENGINEERING SCIENCES—3 cr. (3 and 0)

A course for high school teachers designed to bridge the gap existing between the thinking of high school and college engineering instructors. Topics include the profession of engineering, the relation between engineering and basic science, the engineering curriculum, modern engineering problems, and future engineering problems. The aim of the course is to train high school teachers to be better counselors for pre-engineering students. *Prerequisite:* Permission of instructor.

IE 402—METALLURGY—3 cr. (2 and 3)

A general course in the fundamentals of engineering physical metallurgy. The course is designed to give students in other fields of engineering a general working knowledge of problems involving ferrous and nonferrous physical metallurgy. *Prerequisite:* Chem 101 and 102.

IE 404—ENGINEERING ECONOMICS—3 cr. (3 and 0)

Concerns the study of how to analyze the differences between engineering alternatives and the translation of these differences into money terms. Includes the study of the comparison of costs and revenues pertaining to one plan versus another plan on both the long and short run basis, return on investment, problems involved in plant replacement, obsolescence and depreciation. *Prerequisite:* Econ 314 or Econ 201 and Senior standing in engineering.

INDUSTRIAL MANAGEMENT

MR. TREVILLIAN

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 prin-

ciples involved in standard cost systems. Lectures and problems. *Prerequisite:* Acct 201 and 202.

IM 302—INDUSTRIAL MANAGEMENT—4 cr. (4 and 0)

Management problems and methods involved in the operation of manufacturing institutions, including location, equipment investment, organization structure and budgets. The course will briefly survey plant layout, motion study, time study, methods of wage payment, inspection, production and material control, purchasing, sales, and industrial relations. The place and relationships of these functions to the total organization will be studied. *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 or Ag Ec 401.

IM 402—PRODUCTION PLANNING AND CONTROL—4 cr. (4 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 404—INDUSTRIAL ECONOMICS—3 cr. (3 and 0)

Presented as an aid to judgment, the course emphasizes the fact that the forerunner of technical application is economic feasibility. Includes the study of the comparison of costs and revenues pertaining to one plan versus another plan on both the long and short run basis, return on investment, problems involved in plant replacement, obsolescence and depreciation. *Prerequisite:* Econ 314 and Senior standing.

MATHEMATICS

MR. SHELDON

MR. BREWSTER, MR. HIND, MR. MILLER, MR. BELL, MR. COKER, MR. KELLY,
MR. KIRKWOOD, MR. LaGRONE, MR. PARK, MR. STANLEY,
MR. ARMSTRONG, MR. BROWN, MR. HARDEN,
MR. KING, MR. STUART, MR. SULLIVAN

MATH 100—REMEDIAL MATHEMATICS—Non-credit (5 and 0)

Required of all entering freshmen who fail to make a satisfactory grade on the placement examination in mathematics.

An intensified review of the basic principles of high school mathematics which are prerequisite for the study of college mathematics.

MATH 101—COLLEGE ALGEBRA—3 cr. (3 and 0)

A study of elementary college algebra including the fundamental operations, factoring and fractions, equations, ratio and proportion, functions and their graphs, exponents, radicals, quadratic equations. *Prerequisite:* A satisfactory grade on the placement examination.

MATH 102—TRIGONOMETRY (PLANE)—3 cr. (3 and 0)

A study of the trigonometric functions, the solution of right and oblique triangles, trigonometric identities, trigonometric equations, graphs of the trigonometric functions, inverse trigonometric functions. *Prerequisite:* A satisfactory grade on the placement examination.

MATH 103—FRESHMAN MATHEMATICS—5 cr. (5 and 0)

Six weeks of college algebra followed by twelve weeks of plane trigonometry. *Prerequisite:* A satisfactory grade on the placement examination.

MATH 104—FRESHMAN MATHEMATICS—5 cr. (5 and 0)

A further six weeks study of college algebra followed by twelve weeks of plane analytic geometry. *Prerequisite:* Math 103.

MATH 203—DIFFERENTIAL CALCULUS—5 cr. (5 and 0)

A study of differentiation and its application to maxima and minima problems, curve tracing, curvature, rates, differentials. *Prerequisite:* Math 104.

MATH 204—INTEGRAL CALCULUS—5 cr. (5 and 0)

A study of integration and its application to areas, volumes, lengths of curves, multiple integration, engineering problems. *Prerequisite:* Math 203.

MATH 301—ADVANCED ALGEBRA—3 cr. (3 and 0)

An advanced treatment of ratio and proportion, variation, progressions, surds, imaginary quantities, equations, permutations, binomial and multinomial expansions, inequalities. *Prerequisite:* Math 104.

MATH 302—THEORY OF EQUATIONS—3 cr. (3 and 0)

A study of complex numbers, theorems on roots of polynomial equations, constructibility, approximations, determinants, matrices and symmetric functions. *Prerequisite:* Math 104.

MATH 303—STATISTICS—3 cr. (3 and 0)

A study of graphs, frequency distributions, averages, measures of dispersion, moments, the normal curve, curve fitting, correlation and index number. *Prerequisite:* Math 104.

MATH 304—STATISTICS—3 cr. (3 and 0)

A continuation of Math 303. The mathematical basis of statistics is emphasized in this course. The topics covered include the theory of probability, the binomial distribution, the Chi-square distribution, theory of sampling, reliability of statistical differences, sequential analysis. *Prerequisite:* Math 104.

MATH 306—ORDINARY DIFFERENTIAL EQUATIONS—3 cr. (3 and 0)

Differential equations of the first order and first degree, equations of the first order but not of the first degree, linear differential equations, applications to physics and engineering. *Prerequisite:* Math 204.

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 401—COLLEGE GEOMETRY—3 cr. (3 and 0)

Theorems and concepts more advanced than those of high-school geometry. Detailed treatment of the various properties of the triangle, including the notable points, lines, and circles associated with it. *Prerequisite:* Math 104.

MATH 451—VECTOR ANALYSIS—3 cr. (3 and 0)

A study of the algebra and calculus of vectors in two and three dimensions with applications to physics, geometry and engineering problems. *Prerequisite:* Math 305.

MATH 453—ADVANCED CALCULUS—3 cr. (3 and 0)

A more extensive study of the differential and integral calculus than is given in the intermediate course with emphasis on applications and an introduction to theoretical questions. Topics include: power series, partial differentiation, implicit functions, the definite integral. *Prerequisite:* Math 305.

MATH 454—ADVANCED CALCULUS—3 cr. (3 and 0)

A continuation of Math 453. Topics include: Gamma and Beta functions; line, surface and space integrals; Bessel functions; partial differential equations; calculus of variations; introduction to functions of a complex variable. *Prerequisite:* Math 453.

MATH 455—ADVANCED MATHEMATICS FOR ENGINEERS—3 cr. (3 and 0)

A study of advanced mathematical topics pertinent to the field of engineering. Physical applications are stressed by the presentation of problems relating to the several branches of engineering. Topics include ordinary and partial differential equations, hyperbolic functions, infinite series, Fourier series, and Gamma and Bessel functions. *Prerequisite:* Math 306.

MATH 456—ADVANCED MATHEMATICS FOR ENGINEERS—3 cr. (3 and 0)

A continuation of Math 455. Further topics include functions of a complex variable, vector analysis, probability, and operational calculus. *Prerequisite:* Math 306.

MATH 501—PARTIAL DIFFERENTIAL EQUATIONS—3 cr. (3 and 0)**MATH 502—DETERMINANTS AND MATRICES—3 cr. (3 and 0)****MATH 503—THEORY OF FUNCTIONS OF COMPLEX VARIABLES—3 cr. (3 and 0)****MATH 504—THEORY OF FUNCTIONS OF COMPLEX VARIABLES—3 cr. (3 and 0)****MATH 591—RESEARCH—3 cr.****MATH 592—RESEARCH—3 cr.****MECHANICAL ENGINEERING**

MR. COOK

MR. FERNOW, MR. LEWIS, MR. RAUSCH, MR. SAMS, MR. SCHILDHAUER,

MR. WATSON, MR. EDWARDS, MR. ELROD, MR. HUDSON,

MR. PERRY, MR. JOHNSON

ME 213—ENGINEERING PROBLEMS—2 cr. (1 and 3)

This course is designed to develop neatness, self-confidence and an analytical approach to the solution of engineering problems. A review of logarithms;

fundamentals of the slide rule and its application to practical engineering problems. A wide variety of problems is presented, stressing fundamentals and the engineering method. *Prerequisite:* Math 103, 104 and enrollment in Phys 211.

ME 302—ELEMENTARY THERMODYNAMICS—3 cr. (3 and 0)

Introduction to the fundamentals of thermodynamics. The first and second laws of Thermodynamics, concept of thermodynamic properties, processes and cycles. Application of the fundamentals to appropriate equipment. (Designed for those curriculums requiring only one course in Thermodynamics.) *Prerequisite:* Phys 211, 212 and Math 204 or enrollment in Math 204.

ME 305—ENGINEERING THERMODYNAMICS—3 cr. (3 and 0)

Thermodynamics including gas laws, energy equations, processes, cycles, gas flow, and combustion together with application to appropriate power plant machinery. Designed for those curriculums requiring two semesters of thermodynamics. Not for mechanical engineering students. *Prerequisite:* Math 203, 204; Physics 211 and 212.

ME 306—ENGINEERING THERMODYNAMICS—3 cr. (3 and 0)

A continuation of ME 305. Thermodynamics of vapors with application to steam boilers, engines, turbines, power plant cycles, refrigeration and heat transfer problems. *Prerequisite:* ME 305.

ME 307—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

Study and calibration of weights, pressure, area, and fluid flow measuring devices, testing of pumps, engines, fans and compressors. Designed primarily for those curriculums requiring only one course in Mechanical Engineering Laboratory. *Prerequisite:* Enrollment in ME 302 or 305.

ME 308—HEAT TRANSFER—2 cr. (2 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:* ME 311 and Math 306.

ME 309—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

The study and calibration of weight, pressure, area, and fluid flow measuring devices, flue gas analysis, power plant piping, lifting devices, centrifugal pump, and heat transfer. Designed for those non ME curriculums requiring two semesters of Mechanical Engineering Laboratory. *Prerequisite:* Enrollment in ME 305.

ME 310—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

A continuation of ME 309. A study of the performance tests of steam turbines, blowers, Diesel engines, unafow engines, air compressors and hydraulic turbines. *Prerequisite:* ME 309 and enrollment in ME 306.

ME 311—ENGINEERING THERMODYNAMICS—3 cr. (3 and 0)

Thermodynamics including gas laws, energy equations, processes, cycles, gas flow and combustion, together with application to appropriate power plant

machinery. *Prerequisite:* Math 203, 204; Phys 211, 212; ME 213 and Junior standing.

ME 312—ENGINEERING THERMODYNAMICS—3 cr. (3 and 0)

Thermodynamics of vapors with application to steam boilers, engines, turbines, power plant cycles, refrigeration and air conditioning problems. *Prerequisite:* ME 311.

ME 313—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

Study and calibration of weight, pressure, area, and fluid flow measuring devices, flue gas, and liquid fuel analysis, triplex pump, powerhouse piping and auxiliaries, friction test on steam engine and internal combustion engine. *Prerequisite:* Enrollment in ME 311.

ME 314—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

Practical work in connection with coal analysis, tests of lifting devices, ram, injector, centrifugal pump, calorimeters and study of water plant. *Prerequisite:* ME 313.

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, cooling, dynamics, ignition and injection of the two and four stroke cycle spark ignition and compression ignition engines. *Prerequisite:* ME 312, 308, Mech 401, enrollment in EE 308 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 the boilers, prime movers, condensers, fuel handling equipment, stokers, pulverized fuel equipment, combustion, refuse handling equipment, fans, chimneys, water treatment, water heaters and deaerators, pumps, feed water regulation and the piping system design and layout. *Prerequisite:* ME 312, 308, Mech 401, enrollment in EE 308 and Senior standing.

ME 413—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

A practical application of the theory covered in ME 411 and ME 412. Performance tests of steam turbines, blowers, boilers, refrigeration plants, hydraulic turbines, all types of internal combustion engines, auxiliaries and fuels are studied. *Prerequisite:* ME 314 and enrollment in ME 411 or ME 412.

ME 414—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

A continuation of ME 413. *Prerequisite:* Senior Mechanical Engineering standing.

ME 417—ENGINEERING ANALYSIS—1 cr. (3 and 3)

This course is designed 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. *Prerequisite:* Senior Engineering standing.

ME 420—ADMINISTRATION—3 cr. (3 and 0)

Instruction in the principles of organizing, financing and incorporating business enterprises; organization of the manufacturing establishment, buying and selling; contracts, accounting; management problems. *Prerequisite:* Senior standing.

ME 422—AXIAL FLOW AND CENTRIFUGAL MACHINERY—3 cr. (3 and 0)

A study of the fundamentals, theory and performance of gas turbines, steam turbines, axial flow compressors, centrifugal pumps, blowers and hydraulic turbines. The laws of rotating machinery, specific speed and allied topics. *Prerequisite:* Permission of the instructor.

ME 423—INTERNAL COMBUSTION ENGINE DESIGN—1 cr. (0 and 3)

Limits and requirements in the design of both air cooled and liquid cooled spark ignition and compression ignition engines, the principle of similitude, detail design and sketching of the engine parts and an assembly drawing of an engine. *Prerequisite:* DD 306, ME 311, 312 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 cooling loads for buildings, fuels and combustion, heating systems, psychrometric principles, air distribution, and automatic control apparatus. *Prerequisite:* ME 312, ME 308 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—2 cr. (2 and 0)

Physical properties of air, effects of deflecting air streams, air flow, airfoils, drag, power plants, propellers, control surfaces and stability; performance at sea level and at altitude. Calculations are made for an airplane to determine its performance at sea level and at altitude, including takeoff and landing distance, endurance, range and load during turns. *Prerequisite:* ME 312.

ME 434—REFRIGERATION—2 cr. (2 and 0)

Underlying thermodynamics of refrigeration and design and operating characteristics of compression and absorption systems. Ice making and cold storage. *Prerequisite:* ME 312, 308.

ME 438—FUEL AND COMBUSTION—2 cr. (2 and 0)

Compositions, courses, and physical characteristics of solid, liquid and gaseous fuels and a study of how the combustion of these fuels is treated in practical engineering. *Prerequisite:* ME 311 or 305 and enrollment in ME 312 or 306.

ME 461—ANALYSIS OF THERMODYNAMIC PROBLEMS—2 cr. (2 and 0)

Engineering problems involving the use of differential and integral calculus including ordinary differential equations, partial differentiation, multiple

integrals, partial differential equations, line integrals and series. *Prerequisite:* ME 311, 312 and Math 306.

ME 501—ADVANCED AIR CONDITIONING—3 cr. (3 and 0)

ME 510—ADVANCED THERMODYNAMICS—3 cr. (3 and 0)

ME 521—ADVANCED INTERNAL COMBUSTION ENGINES—3 cr. (3 and 0)

ME 522—ADVANCED INTERNAL COMBUSTION ENGINES—3 cr. (3 and 0)

ME 523—ADVANCED INTERNAL COMBUSTION ENGINES LABORATORY—1 cr. (0 and 3)

ME 524—ADVANCED GAS TURBINES—3 cr. (3 and 0)

ME 526—ADVANCED STEAM TURBINES—2 cr. (2 and 0)

ME 528—ADVANCED STEAM TURBINES DESIGN—1 cr. (0 and 3)

ME 532—APPLIED HEAT TRANSFER—3 cr. (3 and 0)

ME 591—RESEARCH—3 cr.

ME 592—RESEARCH—3 cr.

MECHANICS AND HYDRAULICS

MR. CURTIS

MR. MOORMAN, MR. BYARS, MR. HUMPHREYS, MR. NOWACK, MR. SHOOLBRED

MECH 302—MECHANICS (STATICS)—3 cr. (3 and 0)

An elementary technical study of force systems and their action on rigid bodies at rest, devoted to development of facility in free body analysis. Topics also considered are center of gravity, moment of inertia of areas, and friction. *Prerequisite:* Math 204, Phys 211.

MECH 303—MECHANICS (KINETICS)—3 cr. (3 and 0)

A continuation of Mech 302. Analytical kinematics and the effects of forces in producing motion of rigid bodies are major considerations. Among the principal topics, whose engineering applications are developed, are: Second Law of Motion for translation and rotation; work, energy, and power; impulse and momentum. *Prerequisite:* Mech 302.

MECH 304—MECHANICS OF MATERIALS—3 cr. (3 and 0)

This course is designed to acquaint students with certain physical constants and stresses in structural members and machine parts, and to illustrate rational derivation of formulas for internal stresses. Among topics covered are: Deformation and stress; torsion; riveted joints; flexure and deformation of beams; combined stresses in short blocks; columns. *Prerequisite:* Mech 302.

MECH 305—MECHANICS OF MATERIALS LABORATORY—1 cr. (0 and 3)

Designed to illustrate points and principles considered in Mech 304. Students are also acquainted with the different types of testing machines, instruments, and testing methods. *Prerequisite:* Must be accompanied or preceded by Mech 304.

MECH 306—GRAPHIC STATICS—1 cr. (0 and 3)

Graphical analysis of force systems and of stresses in statically determinate frames. Given for students in certain branches. *Prerequisite:* Must be accompanied or preceded by Mech 302.

MECH 401—FLUID MECHANICS—3 cr. (3 and 0)

A study of the forces on fluids at rest and in motion, together with consideration of various flow measurement devices and of power developing and using units. Among the items considered are: Hydrostatic pressure and devices for measuring it; hydraulic similitude; measurements of flow by orifices, weirs, and various meters; flow in pipes; open channels. *Prerequisite:* Mech 303 (for certain curriculums Mech 302).

MECH 403—FLUID MECHANICS LABORATORY—1 cr. (0 and 3)

A laboratory course for students in certain branches to illustrate the principles of Mech 401. Also special exercises are given in stream gaging. *Prerequisite:* Must be accompanied or preceded by Mech 401.

MECH 460—HYDROLOGY—2 or 3 cr. (2 or 3 and 0)

A study of the principles concerning the occurrence of water in nature and the practice of engineering in dealing with it in connection with design of water supplies and structures. *Prerequisite:* Mech 401 and 403; approval by instructor.

MECH 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:* Mech 460, or special approval of instructor.

MECH 464—FLOW IN OPEN CHANNELS—2 or 3 cr. (2 or 3 and 0)

Consideration of open channel flow, including study of the hydraulic jump, backwater curves, bends, transitions and obstructions, and analysis of special methods of flood routing. *Prerequisite:* Mech 401 and approval of instructor.

MECH 502—SPECIAL TOPICS IN MECHANICS OF MATERIALS—3 cr. (3 and 0)**MECH 504—DYNAMICS—3 cr. (3 and 0)****MECH 506—FLUID MECHANICS II—3 cr. (3 and 0)****MECH 508—FLOOD CONTROL—3 cr. (3 and 0)****MECH 510—ADVANCED HYDROLOGY—2 cr. (2 and 0)****MECH 512—HYDRAULIC PROJECTS—3 cr. (3 and 0)****MECH 591—RESEARCH—3 cr.****MECH 592—RESEARCH—3 cr.**

MILITARY SCIENCE

COLONEL DOUGLASS

LT. COL. BLOSS, LT. COL. CAVNESS, LT. COL. MOTES, MAJ. NYGARD, CAPT. DAVIS, CAPT. LAYMAN, CAPT. LUSE, CAPT. MAJOR, CAPT. O'HANLON, CAPT. SANDERS, CAPT. TAYLOR, CWO. CHEATHAM, M/SGT. BARNES, M/SGT. GIBERT, M/SGT. GILLAND, M/SGT. LANGDON, M/SGT. POOLE, M/SGT. WAGES, SFC. CLEAMONS, SFC. McMICHAEL, SFC. PHELPS, SFC. SCOVIL, SFC. SIMPSON, SGT. TROUTMAN, SP² SORBER

MS 101—MILITARY SCIENCE AND TACTICS (BASIC)—1 cr. (2 and 1)

This course is an introduction to the study of military science and establishes a foundation for continued training in the Reserve Officers' Training Corps. Principal topics are: The theory of Army organization; the development and objectives of the ROTC, with specific study of the local unit; military courtesy, drill and customs of the American Army; a practical study of the principal individual weapons presently used in the U. S. Army; and, integrated within these subjects, an introduction to the development of the essential characteristics of leadership.

MS 102—MILITARY SCIENCE AND TACTICS (BASIC)—1 cr. (2 and 1)

A continuation of MS 101 including the presentation of a comprehensive study of American military history. This study deals with the origins of the American Army to the present with emphasis on factors which have led to the organizational, tactical, logistical, operational, social and other similar patterns found in our present-day Army.

MS 201—MILITARY SCIENCE AND TACTICS (BASIC)—1 cr. (2 and 1)

Theoretical and practical instruction in map and aerial photograph reading and interpretation; crew-served weapons to include detailed instruction in the BAR and machine guns. Practical training for duty as officers in the United States Army by supervised training in actual command during military drills, parades, reviews, inspections and ceremonies.

MS 202—MILITARY SCIENCE AND TACTICS (BASIC)—1 cr. (2 and 1)

Continuation of MS 201. Further study of all crew-served weapons generally found throughout the United States Army. Additional practical training for command duty by supervised training in actual command during military drills, parades, reviews, inspections and ceremonies.

MS 301—MILITARY SCIENCE AND TACTICS (ADVANCED BRANCH GENERAL)—3 cr. (4 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 AND TACTICS (ADVANCED BRANCH GENERAL)—3 cr. (4 and 1)

A continuation of MS 301. Theoretical and practical training in the techniques and principles of employment of the Rifle Company and the Heavy

Weapons Company of the Infantry Regiment stressing the triangular concept. Familiarization with the means and principles of signal communications within the Infantry Division. Additional training for duty as officers by application of principles of leadership in actual command during drills, parades, reviews, inspections and ceremonies.

MS 401—MILITARY SCIENCE AND TACTICS (ADVANCED BRANCH GENERAL)—3 cr. (4 and 1)

A study of advanced military subjects common to all branches of the Army. Principal subjects are logistics, operations, school of the soldier and exercise of command. Continued training of officers by application of instruction, methods and principles of leadership in positions of command during drills, parades, reviews, inspections and ceremonies.

MS 402—MILITARY SCIENCE AND TACTICS (ADVANCED BRANCH GENERAL)—3 cr. (4 and 1)

A continuation of MS 401. A study of logistics, military administration and personnel management, service orientation, school of the soldier and exercise of command. Continued training of officers by application of instruction, methods and principles of leadership in positions of command during drills, parades, reviews, inspections and ceremonies.

MUSIC

MR. MCGARITY

MUSIC 103—CLASS BASIC PIANO—1 cr. (0 and 3)

A course 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 400—MUSIC IN THE ELEMENTARY SCHOOL CLASSROOM—3 cr. (3 and 0)

This course is 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.

MUSIC 402—MUSIC APPRECIATION—3 cr. (3 and 0)

This course is a comprehensive study of the development of music and factors leading toward the understanding of better music. Records and piano renditions of representative literature of outstanding composers are offered.

This course is required for all students in Education, Vocational Agricultural Education and Industrial Education.

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 410—FROM BACH TO THE TWENTIETH CENTURY—2 cr. (2 and 0)

A study of stylistic trends in music from 1700 to 1950. From the listener's point of view, certain compositions of various composers will be analyzed. *Prerequisite:* Music 402.

PHYSICS

MR. HUFF

MR. LINDSEY, MR. C. A. REED, MR. MILLER, MR. A. R. REED, MR. KENDRICK,
MR. SHACKELFORD, MR. VOGEL, MR. WOOD, MR. CARROLL

PHYS 201—GENERAL PHYSICS—3 cr. (3 and 0)

A study of mechanics and heat including the laws of motion, equilibrium, machines, mechanical and thermal properties of solids, liquids, and gases, thermometry and heat transfer. *Prerequisite:* Registration in Phys 203.

PHYS 202—GENERAL PHYSICS—3 cr. (3 and 0)

A continuation of the previous course covering wave motion, sound, geometrical optics, light waves and spectra, magnetism, static and current electricity, circuits and electrical machines. *Prerequisite:* Phys 201, registration in Phys 204.

PHYS 203—GENERAL PHYSICS LABORATORY—1 cr. (0 and 3)

Experiments testing the laws studied in Phys 201, giving experience in measuring the physical properties of matter, and practice in the use of precision instrument and the treatment of observed data. *Prerequisite:* Registration in Phys 201.

PHYS 204—GENERAL PHYSICS LABORATORY—1 cr. (0 and 3)

Experiments with sound waves, lenses, refraction and diffraction of light, magnetic fields, electrical circuits, measurements with electrical instruments. *Prerequisite:* Registration in Phys 202.

PHYS 205—LABORATORY TECHNIQUES—1 cr. (0 and 3)

The student is given training in skills commonly used in experimental physics, including the use of measuring devices, tools, electrical connection, glass working and vacuum techniques.

PHYS 211—GENERAL PHYSICS FOR ENGINEERS—4 cr. (4 and 0)

A study of 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 103 and 104; registration in Phys 213.

PHYS 212—GENERAL PHYSICS FOR ENGINEERS—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 or 216.

PHYS 216—GENERAL PHYSICS FOR ELECTRICAL ENGINEERS—4 cr. (4 and 0)

A continuation of Phys 211 covering essentially the same topics as Phys 212 with added emphasis on electric and magnetic fields, electric and magnetic potentials, magnetic circuits, behavior of charges in electric and magnetic fields, and an introduction to atomic and nuclear theory. *Prerequisite:* Phys 211 and registration in Phys 214 and EE 214.

PHYS 301—INTRODUCTION TO MODERN PHYSICS FOR NON-TECHNICAL STUDENTS—3 cr. (3 and 0)

A continuation of the General Physics course to cover the important concepts and experiments of the current century with particular emphasis on demonstrations and non-mathematical explanations and developments. *Prerequisite:* Phys 201 and 202; Math 103 and 104.

PHYS 304—DESCRIPTIVE ASTRONOMY—3 cr. (2 and 3)

A survey of the properties of the planets and their satellites, their actual and apparent motions, the properties of stars and nebulae, and introduction of the determination of latitude and longitude. *Prerequisite:* Phys 201 and 202, or 211 and 212, or 216.

PHYS 305—PHOTOGRAPHY—3 cr. (2 and 3)

A survey of various phases of photography including photographic optics, sensitivity of negative materials, making prints and enlargements, composition of pictures. *Prerequisite:* Phys 201 and 202, or 211 and 212; permission of the instructor.

PHYS 308—SOUND AND ACOUSTICS—3 cr. (3 and 0)

A study of the production, propagation, properties and measurement of sound waves with emphasis on the acoustics of buildings. *Prerequisite:* Phys 201 and 202, or 211 and 212, or 216; registration in Math 203.

PHYS 312—HEAT AND KINETIC THEORY—3 cr. (3 and 0)

Instruction in thermometry, calorimetry, change of state, kinetic theory of gases and elements of thermodynamics with emphasis on chemical applications. *Prerequisite:* Phys 201 and 202, or 211 and 212, or 216; Math 203 and 204.

PHYS 314—EXPERIMENTAL HEAT—1 cr. (0 and 3)

Practical instruction in the measurement of high and low temperatures, thermal properties of solids, liquids and gases; heats of combustion, heat conduction and radiation. *Prerequisite:* Registration in Phys 312.

PHYS 321—MECHANICS AND PROPERTIES OF MATTER—4 cr. (4 and 0)

A study of the motions of particles and of rigid bodies, gyroscopes, elasticity, surface tension, the flow of fluids, gravitation. *Prerequisite:* Phys 201 and 202, or 211 and 212, or 216; Math 203 and 204.

PHYS 323—EXPERIMENTAL MECHANICS—1 cr. (0 and 3)

Practice in the precise measurements of length, mass and time; experiments with pendulums, gyroscopes and other mechanical apparatus. *Prerequisite:* Registration in Phys 321.

PHYS 341—ELECTRICITY AND MAGNETISM—3 cr. (3 and 0)

A study of the laws of electrostatics, of electric circuits, and the properties of dielectric and of magnetic materials. *Prerequisite:* Phys 201 and 202, or 211 and 212, or 216; Math 203 and 204.

PHYS 343—ELECTRICITY LABORATORY—1 cr. (0 and 3)

Measurements of the properties of lens systems and the defects of the potentiometers; low and high frequency circuits; standing waves on wires. *Prerequisite:* Registration in Phys 341.

PHYS 401—SENIOR THESIS AND SEMINAR—3 cr. (1 and 6)

This course is intended to give the student a general knowledge of current trends in physics as well as a more detailed review of the historical papers in the field. The senior thesis is a semi-original piece of work under the direction of the physics staff. The work in general is done in one of the following fields: X-ray, electron microscopy, ultra-violet spectroscopy, and electronics. *Prerequisite:* At least three physics courses beyond General Physics.

PHYS 432—LIGHT—4 cr. (4 and 0)

Introduction to the formation of images by lenses and mirrors and the design of optical instruments; theory of interference and diffraction of light waves, polarization; applications to spectroscopy and precision measurement. *Prerequisite:* Phys 201 and 202, or 211 and 212, or 216; Math 203 and 204.

PHYS 434—EXPERIMENTAL LIGHT—1 cr. (0 and 3)

Measurements of the properties of lens systems and the defects of the images produced, the effects of slits on light waves, measurements with a spectrograph, use of the interferometer, polarimetry. *Prerequisite:* Registration in Phys 432.

PHYS 441—ELECTROMAGNETISM—3 cr. (3 and 0)

A study of the electric and magnetic field produced by stationary and moving charges. Maxwell's Field Equations are developed and applied. Vector analysis is used throughout. *Prerequisite:* Phys 341; registration in Math 306.

PHYS. 451—MODERN PHYSICS—3 cr. (3 and 0)

A study of the properties of electrons, protons, and other atomic particles, special theory of relativity, elementary quantum theory and its application to photoelectric effect, X-rays and the Bohr theory of atomic structure. *Prerequisite:* General physics and one other physics course or permission of the instructor.

PHYS 452—ATOMIC AND NUCLEAR PHYSICS—3 cr. (3 and 0)

An introduction to various phases of the physics of atomic nuclei including radioactivity; structure and properties of the nucleus; interaction of radiation with matter; particle accelerators; fission, fusion and atomic energy. *Prerequisite:* Phys 451 or permission.

PHYS 453—EXPERIMENTS IN MODERN PHYSICS—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 451.

PHYS 471—ELECTION MICROSCOPY—3 cr. (2 and 3)

A study of the theory and operation of the electron microscope. The technique of specimen mounting and interpretation of the pictures are stressed. Each student is given specimens chosen from his major field. *Prerequisite:* Eight hours physics and the permission of the instructor.

PHYS 511—THERMODYNAMICS—3 cr. (3 and 0)

PHYS 512—KINETIC THEORY AND STATISTICAL MECHANICS—3 cr. (3 and 0)

PHYS 521—DYNAMICS—3 cr. (3 and 0)

PHYS 541—ELECTRODYNAMICS—3 cr. (3 and 0)

PHYS 542—RADIATION THEORY—3 cr. (3 and 0)

PHYS 551—INTRODUCTION TO QUANTUM MECHANICS—3 cr. (3 and 0)

PHYS 552—THEORY OF ATOMIC SPECTRA—3 cr. (3 and 0)

PHYS 553—NUCLEONICS—3 cr. (3 and 0)

PHYS 566—RELATIVITY—3 cr. (3 and 0)

PHYS 575—SEMINAR IN CONTEMPORARY PHYSICS—1 or 2 cr. (1 or 2 and 0)

PHYS 591—RESEARCH—3 cr.

PHYS 592—RESEARCH—3 cr.

POULTRY HUSBANDRY

MR. MORGAN

MR. COOPER

PH 301, 303—FARM AND COMMERCIAL POULTRY PRODUCTION—4 cr. (3 and 3)

A study of the nature and uses of poultry products, scope of the industry and agencies involved, classification of poultry, structure of the fowl, fundamentals of flock improvement, incubation, brooding, feeding, housing, disease control and sanitation, and the economic aspects of poultry production as a farm enterprise and a commercial business.

PH 451—POULTRY BREEDING—3 cr. (2 and 3)

A study of poultry improvement, through culling and selection, for meat and egg production and standard breed and variety characteristics, and the

application of genetics to the problems of poultry breeding. *Prerequisite:* PH 301, 303 and Agron 302.

PH 452—POULTRY FEEDING AND FLOCK MANAGEMENT—3 cr. (2 and 3)

A study of the nutritive requirements of poultry, dietary deficiencies and curative factors; the compounding of rations for growing, laying and breeding flocks of chickens and turkeys; the value of various feedstuffs; and management practices with chickens and turkeys for maximum economic returns. *Prerequisite:* AH 301, PH 301 and 303.

PH 455—POULTRY GRADING AND PROCESSING—3 cr. (2 and 3)

A study of the classes, grades and judging of market poultry and poultry products, and the preparation, packaging, processing, storage and freezing preservation of eggs and poultry for market. *Prerequisite:* PH 301 and 303.

PH 456—INCUBATION AND BROODING—3 cr. (2 and 3)

A study of the principles and practices of incubation and brooding of the various species of poultry; hatchery management; and commercial broiler production. *Prerequisite:* PH 301 and 303.

PH 459—POULTRY DISEASES AND PARASITES—3 cr. (2 and 3)

A study of the causes, occurrence, symptoms, treatment and prevention of poultry diseases and the identification, life history, symptoms, treatment and prevention of poultry parasites. Sanitary practices on poultry farms and in hatcheries and market establishments, and eradication and control measures for specific diseases and parasites are considered. *Prerequisite:* PH 301, 303; Bact 301, 303; and Zool 404.

PH 460—SEMINAR—2 cr. (2 and 0)

A study and discussion of current research and commercial problems in poultry production and marketing, and selected special topics not fully covered in subject matter courses. *Prerequisite:* PH 301, 303 and pursuing major study in Poultry Husbandry.

PSYCHOLOGY

MR. WAITE

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: alcoholism, drug addiction, suicide, criminality, neurosis, and psychoneurosis. *Prerequisite:* Psych 301.

RELIGION

MR. CROUCH

MR. ALLEN

MR. OLIVEROS

REL 201—THE OLD TESTAMENT PROPHETS—3 cr. (3 and 0)

An introduction to the lives and literature of the prophets, including consideration of the historical, political, social and religious background under which the books were written.

REL 205—INTRODUCTION TO THE NEW TESTAMENT LIT.—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.

REL 305—NEW TESTAMENT OUTLINE—3 cr. (3 and 0)

A study of the background and beginnings of the Christian Movement.

REL 307—INTRODUCTION TO CHRISTIAN ETHICS—3 cr. (3 and 0)

A study of the basic Christian teachings on which ethical or moral action is founded and of the application of these principles.

REL 401—INTRODUCTION TO PHILOSOPHY—3 cr. (3 and 0)

A historical survey of philosophy with emphasis on its connection with political and social circumstances from the earliest times to the present day. Particular attention is given to those subjects which have always been the concern of both philosophy and religion. *Prerequisite:* Senior standing.

RURAL SOCIOLOGY

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. Beginning with the first local agricultural society, the develop-

ment of this movement is followed through the period of the Civil War. The Grange, Farmers' Alliance, and like movements, are then studied in their chronological order of development.

RS 459—THE RURAL COMMUNITY—3 cr. (3 and 0)

A study of 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)

A study of the 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)

SOCIOLOGY

MR. BURTNER

MR. WAITE

SOC 301—INTRODUCTORY SOCIOLOGY—3 cr. (3 and 0)

A study of the basic principles of sociology: culture, biological factors, the influence of geographical environment, human nature, group life, crowds, publics, social classes, cooperation, competition, conflict, accommodation, assimilation, human ecology, communities, social institutions and social change. *Prerequisite:* Junior standing.

SOC 401—SOCIAL PROBLEMS—3 cr. (3 and 0)

A survey of the major social problems: Their background, group conflict, race conflict, war, the nature of population problems, social 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 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. Emphasis is placed upon facts, factors and policies pertaining to geography, population, culture, resources

and waste, social institutions, and planning methods of investigating regions in terms of social science. *Prerequisite*: 3 cr. of Sociology.

SPANISH

MR. RHYNE

MR. DEAN

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. LANGSTON, MR. RAINEY, MR. BREAZEAL

TC 301—TEXTILE CHEMISTRY—2 cr. (2 and 0)

An introductory course for Textile Manufacturing students, covering chiefly the structure and behavior of the less complex organic chemicals employed in the textile industry, up to and including the simpler carbohydrates. *Prerequisite*: Chem 102.

TC 302—TEXTILE CHEMISTRY—2 cr. (2 and 0)

A continuation of TC 301 and 303 covering more complex compounds; starches, cellulose, proteins, dyestuffs, synthetic fibers and resins. Much of the laboratory work is devoted to the analysis of such materials as sizes, finishes and fabrics composed of various fiber mixtures. *Prerequisite*: Chem 102

TC 303—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be taken concurrently with TC 301.

TC 304—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be taken concurrently with TC 302.

TC 305—TEXTILE CHEMISTRY—4 cr. (4 and 0)

A comprehensive course 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:* Chem 104.

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 401—THE CHEMICAL PROCESSING OF TEXTILE MATERIALS—2 cr. (2 and 0)

A general study of the theory and practice involved in the chemical preparation of all types of fibers for textile use from the raw state through to the finished fabric. Such processes as scouring, bleaching, mercerizing and the less complex dyeing procedures are covered. *Prerequisite:* TC 302 and 304.

TC 402—THE CHEMICAL PROCESSING OF TEXTILE MATERIALS—2 cr. (2 and 0)

A continuation of TC 402 and 404 covering the more advanced dyeing procedures with general coverage of textile printing as well as the many processes involved in textile finishing such as shrink-proofing, flame-proofing, crease resistance and water repellancy. *Prerequisite:* TC 302 and 304.

TC 403—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be scheduled concurrently with TC 401.

TC 404—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be scheduled concurrently with TC 402.

TC 410—COLOR MATCHING AND TESTING—1 cr. (0 and 3)

The principles of color matching and mixing, with practice in reproducing shades to standard, and testing color fastness of textiles by approved methods.

TC 430—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 branch of textile chemistry. Modern machinery is available for semi-practical work with a wide range of finishes and fibers.

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)

A course for Textile Chemistry majors similar to TC 401 and 403 except that it is more comprehensive with emphasis on the problems involved in the supervision of a textile finishing plant. *Prerequisite:* TC 306 and 308.

TC 449—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be scheduled concurrently with TC 447.

TC 452—THE CHEMICAL PROCESSING OF TEXTILE MATERIALS—4 cr. (4 and 0)

A continuation of TC 447 and 449. *Prerequisite:* TC 306 and 308.

TC 454—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be scheduled concurrently with TC 452.

TC 455—CELLULOSE CHEMISTRY—3 cr. (3 and 0)

An introductory course covering 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 456—CHEMISTRY OF SYNTHETIC FIBERS AND FINISHES—3 cr. (3 and 0)

A study of 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 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. BROWN

MR. HEYN, MR. CAMPBELL, MR. GRAHAM, MR. LAROCHE,
MR. RICHARDSON, MR. WILSON, 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 401—TEXTILE COSTING—5 cr. (3 and 6)

A study in 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 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 product sales; purchasing; quality control; textile company organization and control.

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.

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)

This course is 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.

TM 464—PHYSICAL TEXTILE TESTING—2 cr. (1 and 3)

This course gives the student a comprehensive understanding of all the important machines and techniques used in physical testing of fibers, yarns and fabrics. The applications of testing in modern textile research are stressed. *Prerequisite*: Senior standing.

WEAVING AND DESIGNING

MR. McKENNA

MR. CARTEE, MR. HUBBARD, MR. TARRANT, MR. WALTERS, MR. WILLIAMS,
MR. EFLAND, MR. JAMESON, MR. WHITTEN

WD 201—FABRIC DESIGN—3 cr. (2 and 3)

A study of the basic weaves for cloth fabrication. Plain, twill, sateen weaves and their derivatives; drawing-in drafts, reed plan, chain drafts, shedding cam design, and analysis of fabrics to obtain weave.

WD 202—FABRIC DESIGN—2 cr. (1 and 3)

A study of the more complex and intricate weaves for fabrics. Extra warp and filling for weight and figure, filling reversible, double cloth, double plain and matelasse, Bedford Cord and pique, velveteen and corduroy, and Turkish towel. *Prerequisite*: WD 201.

WD 205—CAM LOOM MECHANISMS—1 cr. (0 and 3)

A study of the construction, mechanical operation and adjustments of the cam loom. Analytical study of the loom, adjustment and timing of the shedding motion, adjustment and timing of the picking motion, the beating-up motion, let-off and take-up motions, gearing speeds, production.

WD 206—CAM LOOM MECHANISMS—2 cr. (1 and 3)

A further study of the cam loom mechanisms to include the automatic filling transfer, filling feelers, filling cutters, filling stop motion, warp stop motions, extra attachments such as tape selvage motions, auxiliary cams for twill and sateen weaves, and the various overhead attachments for shedding motions of more than two harnesses, loom calculations. *Prerequisite:* WD 205.

WD 301—FABRIC STRUCTURE AND DESIGN—2 cr. (1 and 3)

A study of the plans, drafts and specifications required for the production of plain, leno, and figured fabrics. Leno mechanisms and design; warp and filling layouts; weave combinations; fabric construction; ratio of intersections; harness, reed and chain plans; warping and slashing plans. *Prerequisite:* WD 201.

WD 302—FABRIC ANALYSIS—2 cr. (1 and 3)

A study of 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 201, 202.

WD 305—DOBBY AND BOX MECHANISMS—1 cr. (0 and 3)

A study of the construction, mechanical operation and adjustment of dobby and box mechanisms. Setting and timing of the cylinder, knives, dobby crank and shed; study of the box mechanisms and the use of two or more filling yarns in the weaving of fancy fabrics; setting, aligning and timing of the box motion, and the building of pattern chains. *Prerequisite:* WD 205, 206.

WD 306—JACQUARD MECHANISM—2 cr. (1 and 3)

A study of the theory and mechanisms of the jacquard machine and its complementary equipment. Types of jacquard machines and principles of operation; methods of harness building; card cutting and lacing machines. *Prerequisite:* WD 201, 205.

WD 309—KNITTING—1 cr. (0 and 3)

A study of 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 310—ADVANCED HOSIERY KNITTING—3 cr. (2 and 3)

A course of study of advanced types of circular hosiery machines and of the modern type of ribbers involved in the manufacture of the more complex types of hosiery. Included are a study of mill problems and a study of yarns used in the knitting of hosiery. *Prerequisite:* WD 309.

WD 311—FLAT KNITTING MECHANISM—2 cr. (1 and 3)

Elements of flat knitting for those majoring in knitting. The course deals with principles used mainly in tricot warp knitters and the so-called knitting looms. Also included are studies of suitable yarns and preparation of knitting warps.

WD 312—KNITTED DESIGN AND ANALYSIS—2 cr. (1 and 3)

A study of the pattern mechanisms of hosiery machines and of the pattern mechanisms of the more complicated ribbers. A study of design for these machines from the designer's standpoint and from the practical standpoint. Analysis of knit fabrics is included along with costing procedures of a knitting mill engaged in half hose manufacture. *Prerequisite:* WD 309.

WD 401—WARP PREPARATION—2 cr. (1 and 3)

A study of 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—2 cr. (1 and 3)

Production of woven patterns as studied in fundamental courses in the Weaving and Designing Department. Fabric development, analysis and cloth ordering problems. *Prerequisite:* WD 301, 302, 305.

WD 404—THROWING—3 cr. (2 and 3)

A study of the general production of a typical "synthetic throwing plant" from the time the yarn is received through its preparation for quilling, warping, etc., to include re-drawing, soaking, drying, twisting, setting and winding. *Prerequisite:* Junior standing.

WD 410—CIRCULAR BODY KNITTING—2 cr. (1 and 3)

A study of the machines used in the underwear and outerwear trade along with the design and analysis of these fabrics. A study of the market and of the knitting trade.

WD 411—FULL FASHIONED KNITTING—2 cr. (1 and 3)

A study of the mechanics of full fashioned knitting equipment, full fashioned mills and of the trade, and a study of yarn preparation, inspection, finishing, packaging, costing, quality control, and design and analysis.

WD 412—KNITTED GARMENT MANUFACTURE—2 cr. (1 and 3)

Actual experience in the manufacture of various knitted garments, along with a study of the cutting trade, a study of fabricating machines and finishing of knitted cloth.

YARN MANUFACTURING

MR. GAGE

MR. THOMSON, MR. MARVIN, MR. THOMPSON, MR. WILSON

YM 201—BLENDING AND CLEANING—3 cr. (2 and 3)

A study of the mechanical equipment used to open, blend and clean the raw materials and to prepare cotton and other staple fibers for succeeding

yarn manufacturing processes. Blending of staple fibers; calculations for drafts, measuring devices, waste, evener motions and production.

YM 202—CARDING—3 cr. (2 and 3)

A study of the theory and operation of the card as it is used in the processing of staple fibers and the doubling and drafting of sliver on the drawing frame. Card construction, settings, clothing, ratio of speeds and draft, production and waste studies on the card. Drawing frame construction, drafts and doubling.

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 302—SPINNING—3 cr. (2 and 3)

A study of 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.

YM 305—COTTON MARKETING—1 cr. (0 and 3)

Cotton classing according to U. S. Government Standards for grades and staples. Classing and valuing all grades of cotton raised in U. S.; methods of ginning, marketing, and handling cotton; contracts and claims.

YM 306—COMBING—2 cr. (1 and 3)

A study of settings and adjustment of the comber and its preparatory machines; the value and use of its product. Timing and setting comber for various staples and required waste, production and other calculations; management; and operation of these machines.

ZOOLOGY

MR. COCHRAN

MR. ANDERSON, MR. WARE, MR. WARNHOFF

ZOOL 101, 103—GENERAL ZOOLOGY—4 cr. (3 and 3)

A study designed to give the student thorough training in fundamental types and zoological principles. The morphology, physiology, behavior, reproduction, ecology, embryology, zoogeography, evolution and palaeontology of each phylum are presented.

ZOOL 301—ADVANCED ZOOLOGY—3 cr. (2 and 3)

A study designed to give the student advanced training in zoological principles, physiology and comparative vertebrate anatomy. *Prerequisite:* Zool 101 and 103.

ZOOL 302—VERTEBRATE EMBRYOLOGY—3 cr. (2 and 3)

A study designed to give the student the fundamentals of developmental anatomy of the organ systems as illustrated by the chick and pig. By actual

preparation of histological sections and mounts, the student acquires practice in laboratory procedure and a working 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)

An introduction to 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)

A study of 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 402—ANIMAL ANATOMY AND PHYSIOLOGY—3 cr. (2 and 3)

A basic study of the anatomy and physiological processes of ingestion, secretion, excretion, respiration, circulation, reproduction and metabolism of warm-blooded animals. This course is designed to be of value to students majoring in Pre-Medicine, Pre-Veterinary, Animal Husbandry, Dairy and Poultry. *Prerequisite:* Zool 101, 103.

ZOOL 403—PROTOZOOLOGY—3 cr. (2 and 3)

Instruction in the 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—DISEASES OF ANIMALS—3 cr. (2 and 3)

A course designed to give agricultural students instruction in the recognition, causes and treatment of the diseases of farm animals. The principles of etiology, pathology, diagnosis, symptoms, and treatment of infectious and non-infectious diseases are considered at length.

ZOOL 405—ANIMAL HISTOLOGY—3 cr. (2 and 3)

The purpose of this course is to acquaint the student with microscopic structures of tissues and organs of the animal body. This course is designed to be of value to students in Pre-Veterinary, Pre-Medicine and the Animal Science courses. *Prerequisite:* Zool 101, 103.

ZOOL 501—ADVANCED 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—PATHOGENIC DISEASES OF LIVESTOCK—3 cr. (3 and 0)

ZOOL 556—ECONOMIC ZOOLOGY—3 cr. (2 and 3)

ZOOL 591—RESEARCH—3 cr.

ZOOL 592—RESEARCH—3 cr.

THE
CLEMSON
AGRICULTURAL
COLLEGE
RECORD

PART VI

Public Service
Activities

SCHOOL OF AGRICULTURE STAFF

TEACHING AND PUBLIC SERVICE ACTIVITIES

Board of Control

J. B. DOUTHIT, JR., <i>Chairman</i>	Pendleton
R. M. COOPER, <i>Ex-Officio</i>	Wisacky
T. B. YOUNG	Florence
PAUL SANDERS	Ritter
F. E. COPE	Cope
W. A. BARNETTE	Greenwood
J. F. McLAURIN	Bennettsville

Administration

R. F. POOLE, PH.D., DSC., LL.D., LITT.D.	<i>President</i>
M. D. FARRAR, PH.D.	<i>Dean of Agriculture</i>
R. W. CARTER, D.V.M.	<i>Director of Livestock Sanitary Work, Columbia</i>
O. B. GARRISON, PH.D.	<i>Director of Agricultural Experiment Station</i>
J. W. JONES, PH.D.	<i>Director of Agricultural Teaching</i>
G. B. NUTT, M.S.	<i>Director of Extension</i>
JUANITA H. NEELY, M.S.—	
State Home Demonstration Agent, Winthrop College, Rock Hill	
T. W. MORGAN, M.S.	<i>Assistant Director of Extension</i>
JANE KETCHEN, B.A., B.S.—	
Assistant State Home Demonstration Agent, Winthrop College, Rock Hill	
G. H. BONNETTE, B.S.	<i>Administrative Assistant</i>

Extension District Agents

L. B. Massey, B.S.	First District, Clemson
J. T. Lazar, B.S.	Second District, Florence
A. H. Ward, M.S.	Third District, Aiken

District Home Demonstration Agents

W. Gertrude Lanham, M.S.	First District
Curtys Ballentine, M.S.	Second District
Sallie A. Pearce, M.A.	Third District

Supervisors Negro Extension Work

E. N. Williams, B.S.A.	State Supervisor,
Negro Agricultural Extension Work, State College, Orangeburg	
Waymon Johnson, M.S.	Assistant State Supervisor,
Negro Agricultural Extension Work, State College, Orangeburg	
Marian B. Paul, B.S.	State Supervisor,
Negro Home Demonstration Work, State College, Orangeburg	
Willie P. Washington	Assistant State Supervisor,
Negro Home Demonstration Work, State College, Orangeburg	
Sara K. Aiken	Assistant State Supervisor,
Negro Home Demonstration Work, State College, Orangeburg	

Superintendents Branch Experiment Stations

W. C. Barnes, Ph.D.—	
Truck Station, P. O. Box 3158, St. Andrews Branch, Charleston	
E. E. Hall, M.S.	Pee Dee Station, Florence
E. D. Kyzer, B.S.	Coast Station, Summerville
W. H. Rhodes, B.S. (Acting) ...	Sandhill Station, P. O. Box 1174, Columbia
W. B. Rogers, B.S.	Edisto Station, Blackville

Agricultural Chemistry, Research Division, Fertilizer Inspection and Analysis

B. D. Cloaninger, M.S.†	Director, Fertilizer Inspection and Analysis
Dorothy Brock, B.S.†	Assistant Chemist

† Research Staff.

J. T. Foy, B.S.†	Chemist
W. R. McCaskill, A.B.†	Assistant Chemist
E. J. Lease, Ph.D.†	Nutritionist
E. E. Leslie, B.S.†	Associate Chemist
J. P. Livingston, B.S.†	Laboratory Assistant
Mary Lee McCracken, A.B.†	Assistant Chemist
M. M. Phillippe, Ph.D.†	Chemist
D. B. Roderick, B.A.†	Assistant Chemist
H. J. Webb, Ph.D.†	
Head, Agricultural Chemistry Research, Chief Chemist and Toxicologist	

Agricultural Economics and Rural Sociology

G. H. Aull, Ph.D.° †	Head of Department, Professor of Agricultural Economics, Agricultural Economist
L. M. Bauknight, M.S.°	Associate Professor of Agricultural Economics
F. O. Black, M.A.†	Agricultural Statistician, Columbia (USDA)
V. A. Boyd, M.S.A.°	Associate Professor of Rural Sociology
E. E. Brown, M.S.†	Associate Agricultural Economist
T. A. Burch, M.S.†	Assistant Agricultural Economist
C. P. Butler, M.S.†	Agricultural Economist (USDA)
D. E. Crawford, M.S.	Associate Agricultural Economist
W. T. Ferrier, Ph.D.° †	Agricultural Economist
L. D. Malphrus, Ph.D.†	Associate Agricultural Economist
J. F. Miles, Ph.D.†	Associate Agricultural Economist
C. A. Ouzts, B.S.†	Junior Statistician, Columbia (USDA)
L. S. Philhower, B.S.†	Assistant Agricultural Economist
J. F. Pittman, B.S.†	Assistant Agricultural Economist
M. C. Rochester, Ph.D.†	Leader, Agricultural Economics Extension Work
F. M. Simpson, B.S.° †	Agricultural Economist, Visiting Professor of Agricultural Economics
H. C. Spurlock, M.S.†	Associate Agricultural Economist
J. M. Stepp, Ph.D.°	Professor of Agricultural Economics
M. H. Sutherland, B.S.†	Extension Agricultural Economist
C. C. Taylor, M.S.†	Agricultural Economist (USDA)
B. J. Todd, M.S.° †	Associate Agricultural Economist, Associate Professor of Agricultural Economics
C. H. Whitworth, B.S.A.†	Agricultural Statistician, Columbia (USDA)
P. S. Williamon, B.S.†	Extension Farm Management Specialist

Agricultural Engineering

A. W. Snell, M.S.° †	Head of Department, Professor of Agricultural Engineering Agricultural Engineer
J. H. Anderson, M.S.† §	Assistant Agricultural Engineer
W. A. Balk, B.S.†	Associate Agricultural Engineer, Edisto Station
E. G. Comer, B.S.†	Assistant Extension Agricultural Engineer
J. T. Craig, B.S.°	Assistant Professor of Agricultural Engineering
G. H. Dunkelberg, M.S.° †	Professor of Agricultural Engineering, Agricultural Engineer
J. J. Floyd, B.S.† §	Assistant Agricultural Engineer, Pee Dee Station
W. A. Jones, B.S.° †	Assistant Extension Agricultural Engineer
W. N. McAdams, M.S.†	Associate Professor of Agricultural Engineering, Associate Agricultural Engineer
M. C. McKenzie, B.S.†	Extension Agricultural Engineer
H. E. McLeod, B.S.° §	Instructor in Agricultural Engineering
J. A. Mullins, B.S.†	Assistant Agricultural Engineer, Edisto Station (USDA)
J. A. Murphy, B.S.°	Instructor in Agricultural Engineering
S. A. Nunnery, B.S.†	Assistant Agricultural Engineer

° Teaching Staff.

† Research Staff.

‡ Extension Staff.

§ On Leave.

J. K. Park, M.S.†	Agricultural Engineer (USDA)
T. P. Reid, B.S.†	Assistant in Research
E. B. Rogers, M.S.* †	Associate Professor of Agricultural Engineering, Associate Agricultural Engineer
W. E. Seigler, B.S.† §	Assistant Agricultural Engineer, Edisto Station
G. H. Stewart, M.S.†	Leader, Agricultural Engineering Extension Work
H. O. Vaigneur, B.S.†	Assistant Agricultural Engineer
B. K. Webb, B.S.†	Assistant Agricultural Engineer (USDA)
J. C. Whitesides, B.S.*	Instructor in Agricultural Engineering

Agronomy

G. H. Collings, Ph.D.* †	Head of Department, Professor of Soils, Agronomist
O. W. Beale, M.S.†	Soil Scientist (USDA)
J. B. Blanton †	Agent, Pee Dee Station (USDA)
W. B. S. Boykin, Ph.D.* †—	Associate Agronomist, Associate Professor of Agronomy
J. F. Bullock, M.S.†	Agronomist, Pee Dee Station (USDA)
J. F. Chaplin, M.S.†	Assistant Agronomist, Pee Dee Station
H. P. Cooper, Ph.D.* †	Agronomist, Professor of Agronomy
G. R. Craddock, Ph.D.* †—	Assistant Soil Scientist, Assistant Professor of Agronomy
R. E. Cribb †	Assistant Agronomist, Pee Dee Station
E. B. Eskew, M.S.†	Associate Agronomist
J. C. Etheridge †	Field Assistant, Edisto Station
Z. T. Ford, B.S.†—	Agent and Assistant Agronomist, Pee Dee Station (USDA)
P. B. Gibson, Ph.D.†	Geneticist
D. C. Harrell, B.S.†	Agent, (Associate Agronomist) Pee Dee Station (USDA)
F. M. Harrell †	Research Assistant, Pee Dee Station
R. H. Hawkins, M.S.†	Associate Agronomist, Sandhill Station
W. H. Jenkins, B.S.†	Agronomist, Pee Dee Station (USDA)
C. M. Jones, Ph.D.*	Associate Professor of Agronomy
J. M. Lewis, B.S.†	Extension Tobacco Specialist, Florence
Alfred Manwiller, Ph.D.†	Associate Plant Breeder, Pee Dee Station
C. B. McCants, Ph.D.†	Associate Agronomist, Edisto Station
W. R. Paden, Ph.D.†	Agronomist
N. R. Page, M.S.†	Associate Agronomist, Associate Professor
T. C. Peele, Ph.D.†	Soil Scientist
J. A. Riley, M.S.†	Agronomist, Sandhill Station
R. C. Shelley, B.S.*	Associate Professor of Agronomy
J. H. Smith, Ph.D.†	Soil Microbiologist (USDA)
E. H. Stewart, M.S.†	Soil Scientist (USDA)
R. F. Suman, M.S.†	Assistant Agronomist, Edisto Station
E. C. Turner, B.S.†	Extension Conservationist
W. E. Vaught †	Agent, Pee Dee Station (USDA)
S. A. Williams, B.S.†	Extension Cotton Ginning Specialist
H. A. Woodle, B.S.†	Leader, Agronomy Extension Work
W. D. Yeargin †	Agent and Assistant in Agronomy, Pee Dee Station (USDA)

Animal Husbandry

L. V. Starkey, M.S.* †	Head of Department, Professor of Animal Husbandry, Animal Husbandman
L. F. Cato, B.S.†	Extension Livestock Specialist, Spartanburg
J. R. Cook, M.S.*	Associate Professor of Animal Husbandry
A. L. DuRant, M.S.†	Leader, Livestock Extension Work, Florence
E. G. Godbey, B.S.†	Animal Husbandman

* Teaching Staff.

† Research Staff.

‡ Extension Staff.

§ On Leave.

W. C. Godley, Ph.D.* †	Associate Animal Husbandman, Associate Professor of Animal Husbandry
D. L. Handlin, M.S.*	Assistant Professor of Animal Husbandry
C. H. Mudge, B.S.†	Research Fellow, Johnsonville
R. R. Ritchie, M.S.*	Professor of Animal Husbandry
R. F. Wheeler, Ph.D.* †	Associate Animal Husbandman, Associate Professor of Animal Husbandry
S. G. Woods, B.S.†	Assistant Animal Husbandman, Edisto Station

Botany, Bacteriology and Plant Pathology

G. M. Armstrong, Ph.D.* †	Head of Department, Professor of Botany and Bacteriology, Botanist and Plant Pathologist
W. B. Albert, Ph.D.†	Associate Plant Physiologist
Joanne K. Armstrong, Ph.D.†	Agent, (USDA)
C. H. Arndt, Ph.D.* †	Associate Professor of Botany, Plant Pathologist
Luther W. Baxter, Ph.D.†	Associate Plant Pathologist, Edisto Station
C. C. Bennett, B.S.†	Assistant in Botany
J. H. Bond, M.S.*	Associate Professor of Bacteriology
R. W. Earhart, Ph.D.†	Associate Plant Pathologist
W. M. Epps, Ph.D.†	Associate Plant Pathologist, Truck Station
H. H. Foster, Ph.D.†	Associate Plant Pathologist
T. W. Graham, Ph.D.†	Agent, Pee Dee Station (USDA)
Q. L. Holdeman, Ph.D.†	Associate Plant Pathologist, Pee Dee Station
W. C. Johnson, B.S.†	Extension Entomologist and Beekeeping Specialist
A. C. Mathews, Ph.D.* †—	Associate Professor of Botany, Assistant Plant Pathologist
W. C. Nettles, M.S.†	Leader, Extension Entomology and Plant Disease Work
D. H. Petersen, M.S.†	Agent, Pathologist (USDA)
D. B. Rosenkrans, M.A.*	Professor of Botany
J. M. Rush, Ph.D.*	Associate Professor of Bacteriology
R. W. Rutledge, Ph.D.*	Associate Professor of Botany
L. M. Sparks, Jr., B.S.†	Extension Specialist, Cotton Insects and Diseases
J. B. Whitney, Jr., Ph.D.*	Professor of Botany

Dairy

J. P. LaMaster, M.S.* †	Head of Department, Professor of Dairying, Dairy Husbandman
G. R. W. Bentley, Jr., B.S.†	Associate Dairyman
G. W. Brandt, M.S.* †—	Associate Dairy Husbandman (USDA), Associate Professor of Dairying
C. C. Brannon, B.S.* †	Associate Dairyman, Associate Professor of Dairying
C. G. Cushman, B.S.†	Leader, Dairy Extension Work
B. E. Goodale, M.S.*	Professor of Dairying
D. M. Graham, Ph.D.* †—	Associate in Dairying, Assistant Professor of Dairying
Victor Hurst, Ph.D.* †—	Associate Dairy Husbandman, Associate Professor of Dairying
I. W. Kelly, B.S.†	Assistant in Dairying
W. A. King, Ph.D.* †	Dairy Husbandman, Professor of Dairying
J. T. Lazar, Jr., Ph.D.*	Associate Professor of Dairying
C. H. Lomas, M.A.†	Extension Dairy Specialist
G. D. O'Dell, M.S.†	Assistant in Dairying

Entomology and Zoology

J. H. Cochran, Ph.D.* †	Head of Department, Professor of Entomology and Zoology, State Entomologist
Norman Allen, M.S.†	Entomologist, Pee Dee Station (USDA)

* Teaching Staff.

† Research Staff.

‡ Extension Staff.

- G. W. Anderson, D.V.M., M.S.[°] † Animal Pathologist,
Associate Professor of Zoology and Veterinary Medicine
W. F. Chamberlain, Ph.D.† Associate Entomologist
F. P. Cuthbert, Jr., B.S.† Assistant Entomologist, Truck Station (USDA)
O. T. Deen, B.S.† Associate Entomologist, Truck Station (USDA)
David Dunavan, M.S.[°] †—
Associate Entomologist, Associate Professor of Entomology and Zoology
W. J. Goodwin, Ph.D.[°] †—
Associate Professor of Entomology, Associate Entomologist
Dorothy J. Hitchcock, Ph.D.† Assistant Parasitologist, Sandhill Station
A. R. Hopkins, B.S.† Assistant Entomologist, Pee Dee Station (USDA)
W. C. Johnson, B.S.† Extension Entomologist and Beekeeping Specialist
V. M. Kirk, Ph.D.† Associate Entomologist, Pee Dee Station
Frances McAlister, B.A.† Assistant Entomologist
J. W. McKee, B.S.† Assistant Entomologist, Pee Dee Station
W. C. Nettles, M.S.† Leader, Extension Entomology and Plant Disease Work
W. H. Purser, M.S.† Assistant Entomologist
W. J. Reid, Jr., B.S.† Entomologist, Truck Station (USDA)
L. M. Sparks, Jr., B.S.† Extension Specialist in Cotton Insects and Diseases
R. L. Walker, B.S.† Assistant Entomologist, Pee Dee Station (USDA)
R. E. Ware, B.S.[°] Associate Professor of Entomology and Zoology
E. H. Warnhoff, Jr., M.S.[°] Associate Professor of Entomology and Zoology

Farms

- C. S. Patrick, B.S.† Head of Department

Forestry

- W. J. Barker, B.S.† Leader, Forestry Extension Work
N. B. Goebel, M.S.† Associate Forester
C. W. Hall, B.S.† Extension Forester, Columbia
Koloman Lehotsky, Ph.D.[°] Professor of Forestry
S. A. Marbut, B.S.† Extension Forester

Four-H Club Work

- L. O. Clayton, M.A.† State Boys' 4-H Club Agent
G. H. Baker, B.S.† District Boys' 4-H Club Agent, Florence
Hazel Ann Dean, B.S.†—
Assistant State Girls' 4-H Club Agent, Winthrop College, Rock Hill
Georgia M. Taylor, B.S.†—
State Girls' 4-H Club Agent, Winthrop College, Rock Hill
J. B. Williams, B.S.† District Boys' 4-H Club Agent, Aiken

Home Economics (Winthrop College, Rock Hill)

- Elizabeth S. Watson, M.A.† Head of Research Department, Home Economist
Ruby M. Craven, M.S.† Extension Home Management Specialist
Phyllis Drake, M.S.† Assistant Home Economist
Ellie Herrick, B.S.† Extension Family Life Specialist
Margaret Martin, M.A.†—
Extension Food Production and Conservation Specialist
Janie McDill, M.S.† Extension Nutritionist
Florence E. Roach, B.A.† Assistant in Home Economics
Betty Lee Palmer, B.S.† Extension Consumer Education Specialist
Portia Seabrook, M.S.† Extension Clothing Specialist

Horticulture

- A. M. Musser, B.S.[°] † Head of Department,
Professor of Horticulture, Horticulturist
H. A. Bowers, M.S.† Extension Truck Crops Specialist, Barnwell
J. H. Crawford, B.S.† Assistant Horticulturist
R. J. Ferree, M.S.† Leader, Extension Horticulture Work

[°] Teaching Staff.

† Research Staff.

‡ Extension Staff

M. G. Hamilton, Ph.D.* †—

Associate Horticulturist, Associate Professor of Horticulture

M. B. Hughes, Ph.D.† Horticulturist, Edisto Station

J. A. Martin, B.S.† Associate Horticulturist (USDA)

A. E. Schilleter, B.S.† Associate Extension Horticulturist

H. J. Sefick, M.S.* †—

Associate Horticulturist, Associate Professor of Horticulture

T. L. Senn, M.S.* Associate Professor of Horticulture

H. D. Taylor, M.S.† Associate Horticulturist, Edisto Station

F. W. Thode, M.S.* Associate Professor of Horticulture

L. O. Van Blaricom, M.S., Ch.E.* †—

Associate Food Technologist, Associate Professor of Food Technology

Marketing (Headquarters, Columbia)

J. E. Youngblood, B.S.† Chief, Extension Division Marketing

W. R. Flemming, B.S.† Extension Marketing Specialist

L. C. Hamilton, B.S.† Extension Marketing Specialist

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

C. L. Morgan, M.S.* † Head of Department,
Professor of Poultry Husbandry, Poultryman

M. A. Boone, M.S.† Associate Professor of Poultry

J. B. Cooper, M.S.* Associate Professor of Poultry Husbandry

P. H. Gooding, M.S.† Leader, Poultry Extension Work

E. C. Naber, Ph.D.† Assistant Poultryman

E. A. Peterkin, B.S.† Extension Poultryman, Dillon

D. J. Richey, Ph.D.† Associate Poultry Pathologist

C. F. Risher, B.S.† Extension Turkey Specialist, York

W. S. Snelling, M.S.† Extension Poultryman

Publications

S. C. Stribling, B.S.† † Agricultural Editor

A. B. Bryan, B.Litt.† † Agricultural Editor Emeritus

J. B. Copeland, B.S.A.† Assistant Agricultural Editor

J. M. Eleazer, B.S.† Extension Information Specialist

J. R. Mattison, B.S.† Extension Radio Specialist

Doris A. Timmerman, B.A.† † Assistant Agricultural Editor

Visual Instruction

Lewis W. Riley † Extension Specialist Motion Pictures and Photography

J. G. Nowell † Assistant in Visual Instruction

Vocational Agricultural Education

J. B. Monroe, M.S.* Head of Department,

Professor of Vocational Education

W. C. Bowen, M.S.* Associate Professor of Vocational Education

F. E. Kirkley, M.S.* Associate Professor of Vocational Education

B. H. Stribling, M.S.* Associate Professor of Vocational Education

T. A. White, Ph.D.* Professor of Vocational Education

Crop Pest Commission

J. H. Cochran, Ph.D.* †—

State Entomologist, Professor of Entomology and Zoology

G. M. Armstrong, Ph.D.* †—

State Pathologist, Professor of Botany and Bacteriology

* Teaching Staff.

† Research Staff.

‡ Extension Staff.

G. M. Anderson, B.S.†	Assistant State Pathologist
J. A. Berly, B.S.†	Entomologist
W. H. Purser, M.S.†	Assistant Entomologist
J. K. Reed, Ph.D.†	Associate Entomologist

Seed Certification

R. H. Garrison, B.S.†	Head of Department, Associate Plant Breeder
Grady Johnson, Jr., B.S.†	Assistant Agronomist

Soil Testing

H. G. Allbritten, Ph.D.†	Head of Soil Testing, Agronomist
--------------------------	----------------------------------

COUNTY AGENTS

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Abbeville	L. H. Bull, B.S.	Abbeville
Aiken	R. R. Mellette, B.S.	Aiken
Allendale	H. V. Rogers, B.S.	Allendale
Anderson	J. H. Hopkins, B.S.	Anderson
Bamberg	R. C. Hubbard, Jr., B.S.	Bamberg
Barnwell	D. A. Shelley, B.S.	Barnwell
Beaufort	W. L. Johnson, B.S.	Beaufort
Beaufort	J. L. Hayden, B.S. (Acting)	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, B.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	H. F. Livingston, Jr., B.S.	Dillon
Dorchester	J. L. King, B.S.	St. George
Edgefield	O. W. Lloyd, B.S.	Edgefield
Fairfield	M. H. Lynn, B.S.	Winnsboro
Florence	J. T. Rogers, B.S.	Florence
Georgetown	M. M. McCord, B.S.	Georgetown
Greenville	J. K. Jones, B.S.	Greenville
Greenwood	P. M. Garvin, B.S.	Greenwood
Hampton	C. W. Thompson, B.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	C. B. Cannon, B.S.	Laurens
Lee	V. F. Linder, B.S.	Bishopville
Lexington	S. E. Evans, M.S.	Lexington
McCormick	G. W. Bonnette, B.S.	McCormick
Marion	J. C. King, B.S.	Marion
Marlboro	E. C. Abrams, B.S.	Bennettsville
Marlboro	Ray C. Smith, B.S. (Acting)	Marlboro
Newberry	P. B. Ezell, B.S.	Newberry
Oconee	J. C. Morgan, B.S.	Walhalla
Orangeburg	J. C. McComb, B.S.	Orangeburg
Pickens	J. R. Wood, B.S.	Pickens
Richland	R. W. Bailey, B.S.	Columbia
Saluda	F. M. Kearse, B.S.	Saluda
Saluda	C. B. Searson, Jr., B.S. (Acting)	Saluda

† Research Staff.

<i>County</i>	<i>Name</i>	<i>Post Office</i>
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

ASSISTANT COUNTY AGENTS

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Abbeville	J. O. Bethea, B.S.	Abbeville
Aiken	W. A. Beasley, B.S.	Aiken
Anderson	H. D. Marett, B.S.	Anderson
Anderson	Marett Outz, B.S.	Anderson
Barnwell	R. H. Sams, B.S.	Barnwell
Cherokee	G. A. Wolfe, B.S.	Caffney
Chester	A. F. Busby, B.S.	Chester
Chesterfield	E. C. Wallace, B.S.	Chesterfield
Chesterfield	M. L. Chason, M.Ag.Ed.	Chesterfield
Clarendon	F. M. Johnson, B.S.	Manning
Colleton	J. R. White, Jr., B.S.	Walterboro
Colleton	L. S. Livingston, B.S.	Walterboro
Darlington	C. G. Newton, Jr., B.S.	Darlington
Dillon	J. L. Brown, B.S.	Dillon
Dorchester	John Miley, B.S.	St. George
Edgefield	W. H. Craven, Jr., B.S.	Edgefield
Edgefield	W. H. Funchess, B.S.	Edgefield
Edgefield	C. R. Tuten, B.S.	Edgefield
Edgefield	C. H. Key, B.S.	Edgefield
Fairfield	A. D. Boggs, B.S.	Winnsboro
Florence	M. L. Jones, B.S.	Florence
Florence	W. J. McMillan, B.S.	Florence
Florence	R. C. DuBose, B.S.	Florence
Florence	J. F. Sessions, B.S.	Florence
Florence	D. E. Epps, B.S.	Florence
Georgetown	A. E. Liebenrood, B.S.	Georgetown
Greenville	J. W. Gilliam, Jr., B.S.	Greenville
Greenville	G. D. Butler, Special Agent	Greenville
Greenville	T. J. Bryson, B.S.	Greenville
Greenwood	L. R. Allen, B.S.	Greenwood
Hampton	O. F. Huff, B.S.	Hampton
Hampton	G. E. Bell, B.S.	Hampton
Horry	H. B. Hardee, B.S.	Conway
Horry	D. A. Benton, B.S.	Conway
Kershaw	R. R. Montgomery, B.S.	Camden
Lancaster	J. C. DeBruhl, B.S.	Lancaster
Laurens	R. J. Bennett, B.S.	Laurens
Laurens	J. F. Wise, B.S.	Laurens
Lee	L. P. Anderson, B.S.	Bishopville
Lexington	M. A. Bouknight, B.S.	Lexington
Marion	M. J. Carter, B.S.	Marion
Marion	A. C. Altman, B.S.	Marion
Marlboro	R. C. Smith, B.S.	Bennettsville
Newberry	W. A. Ridgeway, B.S.	Newberry
Newberry	J. O. Donkle, B.S.	Newberry
Oconee	C. W. Wilson, B.S.	Walhalla
Oconee	D. P. Matheson, B.S., Special Assistant	Walhalla
Oconee	G. W. Littlejohn, B.S.	Walhalla
Orangeburg	L. M. Trowell, B.S.	Orangeburg
Orangeburg	J. B. Griffith, B.S.	Orangeburg
Orangeburg	C. W. Ackerman, B.S.	Orangeburg

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Pickens	N. C. Anderson, B.S.	Pickens
Pickens	F. M. Fleming, B.S.	Pickens
Richland	C. M. Shuman, B.S.	Columbia
Richland	R. H. Berly, B.S.	Columbia
Richland	W. S. Toy, B.S.	Columbia
Spartanburg	Crayton McCown, B.S.	Spartanburg
Spartanburg	P. M. Smith, B.S.	Spartanburg
Spartanburg	B. W. Sherer, B.S.	Spartanburg
Spartanburg	D. C. Hutchins, B.S.	Spartanburg
Spartanburg	W. S. Walker, B.S.	Spartanburg
Sumter	R. D. McNair, B.S.	Sumter
Sumter	T. B. Tillman, Jr., B.S.	Sumter
Union	H. R. Montgomery, B.S.	Union
Williamsburg	L. B. Harrington, B.S.	Kingstree
Williamsburg	R. M. Johnston, B.S.	Kingstree
York	C. H. Fant, B.S.	York
York	J. D. Williams, B.S.	York
York	J. M. Lawrence, B.S.	York
York	O. F. Lovelace, B.S.	York

NEGRO AGRICULTURAL AGENTS

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Aiken	T. A. Hammond, B.S.A.	Aiken
Anderson	G. W. Stewart, B.S.A.	Anderson
Bamberg	E. D. Dean, B.S.A.	Bamberg
Beaufort	Benjamin Barnwell	Beaufort
Berkeley	R. C. Bacote, B.S.A.	Moncks Corner
Charleston	J. A. Amaker, B.S.A.	Charleston
Chester	M. M. Sitton, B.S.A.	Chester
Chesterfield	C. N. Wilson, B.S.A.	Chesterfield
Clarendon	Hugene Gerald, M.S.A.	Manning
Colleton	J. J. Mitchell, B.S.A.	Walterboro
Darlington	S. C. Disher	Darlington
Dorchester	Eugene Frederick, B.S.A.	St. George
Fairfield	D. G. Belton, Jr., B.S.A.	Winnboro
Florence	H. S. Person, B.S.A.	Florence
Florence	Joseph Hill, B.S.A.—	
	Assistant Negro Agricultural Agent	Florence
Florence	D. B. Waymer, B.S.A.—	
	Assistant Negro Agricultural Agent	Florence
Greenville	F. D. Garrett, B.S.A.	Greenville
Greenwood	B. C. Wright, B.S.A.	Greenwood
Hampton	J. W. Young, B.S.A.	Estill
Horry	W. P. Johnson	Conway
Kershaw	J. D. Marshall, B.S.A.	Camden
Lancaster	R. N. Smith, B.S.A.	Lancaster
Laurens	W. M. Holcomb, B.S.A.	Laurens
Marion	C. A. Brown, B.S.A.	Marion
Marlboro	Quincey Benbow, B.S.	Marlboro
Newberry	B. J. Gill, B.S.A.	Newberry
Orangeburg	Q. J. Smith, B.S.A.	Orangeburg
Orangeburg	Leon Johnson, B.S.A.—	
	Assistant Negro Agricultural Agent	Orangeburg
Richland	I. E. McGraw, B.S.A.	Columbia
Richland	W. J. Warren, M.S.—	
	Assistant Negro Agricultural Agent	Columbia
Spartanburg	R. C. Smith, Jr., B.S.A.	Spartanburg
Spartanburg	Julius Westbrook, B.S.A.—	
	Assistant Negro Agricultural Agent	Spartanburg

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Sumter	Arthur Sanders, B.S.A.	Sumter
Union	B. T. McIntosh, B.S.A.	Union
Williamsburg	V. B. Thomas, B.S.A.	Kingstree
York	B. T. Miller, B.S.A.	Rock Hill
York	J. G. Bowman, B.S.A.— Assistant Negro Agricultural Agent	Rock Hill
Negro Agricultural Agent- At-Large	G. W. Dean, B.S.A.	Orangeburg

COUNTY HOME DEMONSTRATION AGENTS

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Abbeville	Betty O. Biggs, B.S.	Abbeville
Aiken	Alpha O. Covar, B.S.	Aiken
Allendale	Mamie Sue Hicks, B.S.	Allendale
Anderson	Elzie K. Nelson, B.S.	Anderson
Bamberg	Novice H. Folk, B.S.	Bamberg
Barnwell	Elizabeth R. McNab, B.A.	Barnwell
Beaufort	Vivian C. Grubb, B.S.	Beaufort
Berkeley	Sarah Graham, B.S.	Moncks Corner
Calhoun	Addie M. Forrester, B.S.	St. Matthews
Charleston	Matilda Bell, B.S.	Charleston
Cherokee	Jessie A. Wingo, B.S.	Gaffney
Chester	M. Eugenia Dudley, B.S.	Chester
Chesterfield	Lillian D. Rivers, B.S.	Chesterfield
Clarendon	Eleanor D. Carson, M.S.	Manning
Colleton	Eva M. McGee, B.S.	Walterboro
Darlington	Sara E. Roper, B.S.	Darlington
Dillon	Etta Sue Sellars, B.A.	Dillon
Dorchester	Ophelia S. Barker, B.S.	St. George
Edgefield	Margaret Forkner, B.S.	Edgefield
Fairfield	Mattie Lee Cooley, B.S.	Winnsboro
Florence	Vela M. Smith, B.S.	Florence
Georgetown	Mildred E. Koger, B.S.	Georgetown
Greenville	M. Myrtle Nesbitt, B.S.	Greenville
Greenwood	A. Louise McColl, B.S.	Greenwood
Hampton	Eva L. Rubenstein, B.S.	Hampton
Horry	T. Hunter Owings, B.A.	Conway
Jasper	Elizabeth B. Berry	Ridgeland
Kershaw	Margaret B. Fewell, 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	Nancy M. Whisenhunt, B.S.	McCormick
Marion	Sallie M. Smith, B.S.	Marion
Marlboro	L. Louise Heriot, B.S.	Bennettsville
Newberry	Margie D. Freeman, B.S.	Newberry
Oconee	Mary C. Haynie, B.A.	Walhalla
Orangeburg	Sara E. Neeley, B.A.	Orangeburg
Pickens	Sarah G. Cureton, B.S.	Pickens
Richland	Marguerite Summer, B.S.	Columbia
Saluda	M. Carolyn Chapman, B.S.	Saluda
Spartanburg	Nancy E. Hill, B.S.	Spartanburg
Sumter	Rosalie C. Rayle, B.A.	Sumter
Union	Esther S. Senn, B.S.	Union
Williamsburg	Myrtle H. McFaddin, B.S.	Kingstree
York	Jennie M. McNaull, B.S.	York
Agent-at-Large	Anna J. Dreher, B.S.	York

ASSISTANT COUNTY HOME DEMONSTRATION AGENTS

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Aiken	Julia D. Adams, B.S.	Aiken
Anderson	Carolyn M. Eakin, B.S.	Anderson
Cherokee	Anne E. Thomasson, B.S.	Gaffney
Chesterfield	Lula Mae Blackwell, B.S.	Chesterfield
Clarendon	Carrie C. Tomlinson, M.S.	Manning
Colleton	Isobel P. Heaton, B.S.	Walterboro
Colleton	Ruth L. Medley, B.S.	Walterboro
Darlington	Jane S. Sox, B.S.	Darlington
Dillon	Lina C. Surls, B.S.	Dillon
Edgefield	Dorothy O. Herlong, B.S.	Edgefield
Florence	Grace E. Nolan, B.S.	Florence
Florence	Jessica V. Dantzler, B.S.	Florence
Florence	Eleanor M. Foster, B.S.	Florence
Greenville	Betty C. Hunt, B.S.	Greenville
Horry	Jeannine Hucks, B.S.	Conway
Horry	Etta M. Hicks, B.S.	Conway
Kershaw	Jacqueline Sinclair	Camden
Lancaster	Myrtle A. Swofford, B.S.	Lancaster
Laurens	Claudia C. Rogers, B.S.	Laurens
Lexington	Annie M. Stokes, B.S.	Lexington
Lexington	June L. Smoak, B.S.	Lexington
Marion	Bobby H. Page, B.S.	Marion
Newberry	Margaret R. Coleman, B.S.	Newberry
Newberry	Phyllis H. Herring, B.S.	Newberry
Oconee	Jean M. Shelley, B.S.	Walhalla
Orangeburg	Huldah P. McKnight, B.S.	Orangeburg
Richland	Theresa W. Beckham, B.S.	Columbia
Richland	Helen H. Anderson, B.S.	Columbia
Spartanburg	Rozanne Ayers, B.S.	Spartanburg
Spartanburg	Mildred E. Lyles, B.S.	Spartanburg
Sumter	A. Margaret White, B.S.	Sumter
Williamsburg	Ophelia H. Wilson, B.S.	Kingstree
York	Anna J. Fitzgerald, B.S.	York
York	Frances G. Trammell, B.S.	York

NEGRO HOME DEMONSTRATION AGENTS

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Aiken	Lonieal L. Harrison, B.S.	Aiken
Allendale	Annie Mae Butler, B.S.	Allendale
Anderson	Cynthia Williford, B.S.	Anderson
Bamberg	Anna D. Hunter, B.S.	Bamberg
Barnwell	Edna K. DuPree, B.S.	Barnwell
Beaufort	Williett B. Mance	Beaufort
Berkely	Naomi B. Johnson, B.S.	Moncks Corner
Charleston	Albertha V. DeVeaux	Charleston
Cherokee	Martha O. Reid, B.S.	Gaffney
Chester	Effie J. Henderson, B.S.	Chester
Chesterfield	Iola D. Risher, B.S.	Chesterfield
Clarendon	Queenie H. Smith, B.S.	Manning
Colleton	Gussie M. Goudlock, L.I.	Walterboro
Darlington	Hestella V. Broadwater, B.S.	Darlington
Dorchester	Lillie Mae Jamerson, B.S.	St. George
Fairfield	Juanita W. Toatley, B.S.	Winnsboro
Florence	Lillian W. Brown, L.I.	Florence
Georgetown	Rosa G. Gadson	Georgetown

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Greenville	Willie B. Simpson, B.S.	Greenville
Greenwood	Madge W. Hardy, B.S.	Greenwood
Hampton	Leona W. Bing, B.S.	Hampton
Horry	Jean McK. Williams, B.S.	Conway
Kershaw	Julia E. Dickson, B.S.	Camden
Lancaster	Alice G. Osborne, M.S.	Lancaster
Marion	Ivora P. Price, B.S.	Marion
Newberry	Lillian G. Saunders, B.S.	Newberry
Orangeburg	Rosa R. Odom	Orangeburg
Richland	Gertrude H. Sanders, B.S.	Columbia
Spartanburg	Cammie F. Clagett, B.S.	Spartanburg
Sumter	Goldie E. McDuffie, B.S.	Sumter
Union	Laura J. Whitney, B.S.	Union
Williamsburg	Eva G. Lawrence, B.S.	Salters Depot
York	Cornelia C. Walker, B.S.	Rock Hill
Colleton	Hazel P. Scott, B.S.	Walterboro
	Assistant Negro Home Demonstration Agent	
Florence	Hattie P. Lowery, B.S.	Florence
	Assistant Negro Home Demonstration Agent	
Richland	Frank B. Gibbs, B.S.	Columbia
	Assistant Negro Home Demonstration Agent	
York	Johnnie G. Sloan, B.S.	Rock Hill
	Assistant Negro Home Demonstration Agent	

LIVESTOCK SANITARY WORK COLUMBIA, SOUTH CAROLINA

Director and State Veterinarian

R. W. Carter, D.V.M. Columbia

State Assistant to Director

R. A. Mays, B.Sc., D.V.M. Columbia

Assistant State Veterinarians

O. E. Baker, D.V.M. Columbia
 Bert W. Bierer, V.M.D. West Columbia
 W. R. Chastain, D.V.M. Columbia
 I. R. Cooper, Sr., D.V.M. Allendale
 E. T. Fisher, D.V.M. Columbia
 S. L. Moore, D.V.M. Clemson
 Jack Scott, D.V.M. Hemingway
 Dan Strickland, D.V.M. Columbia
 John B. Thomas, D.V.M. Columbia
 S. M. Witherspoon, B.Sc., D.V.M. Marion

State Livestock Inspectors

James C. Epps, Jr., B.Sc. Columbia
 A. T. Gilpin, B.Sc. Columbia
 T. A. Warren, Jr., B.Sc. Columbia

Federal Livestock Inspectors

J. W. Crowder, Jr. Chester
 T. R. Davis Clinton
 Allie J. Lever Columbia
 D. M. Maxey Piedmont
 J. L. Morris Lake City
 J. A. Owen Oswego
 B. L. Walpole Johns Island
 C. A. Wilson Orangeburg

Federal Serologist

Mrs. Paula B. Byrd Columbia

State Laboratory Assistants

Miss Mary C. Britton Columbia

Mrs. Helen B. Motley Columbia

Federal Laboratory Assistants

Mrs. Evelyn M. Goff Columbia

Jesse M. Wilson Columbia

Roy D. Wingard Columbia

Federal Veterinary Livestock Inspectors

G. A. Baker, D.V.M. Columbia

J. W. Boylston, D.V.M. Springfield

M. L. Gunnels, D.V.M. Walterboro

J. M. Love, D.V.M. Chester

H. E. Martin, D.V.M. Columbia

Herbert Racoff, D.V.M. Columbia

K. N. Wisner, D.V.M. Greer

Deputy State Veterinarians

W. W. Adams, D.V.M. Clinton

W. T. Ashby, D.V.M. Barnwell

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. (Retired) Greenwood

W. R. Beasley, D.V.M. Batesburg

R. W. Beaty, Jr., D.V.M. Sumter

D. M. Bedell, D.V.M. Bennettsville

M. R. Blackstock, D.V.S. Spartanburg

D. L. Brown, 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. S. Carr, D.V.M. Aiken

F. P. Caughman, Sr., B.S., V.M.D. Columbia

F. P. Caughman, Jr., D.V.M. Columbia

G. W. Cofer, D.V.M. Columbia

Jack R. Cox, D.V.M. Myrtle Beach

M. D. Culpepper, D.V.M. Chester

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

Wm. S. Faurey, D.V.M. Orangeburg

J. C. Frazier, D.V.M. Greenville

H. L. Frieze, D.V.M. Gaffney

S. P. Galphin, D.V.M. Holly Hill

I. G. Gibson, D.V.M. Florence

W. H. Giddens, D.V.M. Saluda

W. H. Gilmore, D.V.M. Columbia

H. E. Gossett, D.V.M. Woodruff

L. H. Hardy, D.V.M. Camden

C. C. Harmon, B.Sc., D.V.M. Columbia

J. W. Hawk, D.V.M. North Augusta

C. R. Hinson, D.V.M. Bennettsville

Robert Hirshburg, D.V.M. Bamberg

C. Douglas Hobart, D.V.M.	Cheraw
T. P. Hoffmeyer, D.V.M.	Florence
L. J. Hogan, D.V.M.	Charleston
E. C. Horres, D.V.M.	Charleston
E. B. Hubster, D.V.M.	Walterboro
J. W. Hutto, D.V.M.	Holly Hill
C. V. Jameson, D.V.M.	Anderson
Preston B. Jones, D.V.M.	Anderson
S. J. Kellett, Jr., D.V.M.	Seneca
H. B. Kinard, Jr., D.V.M.	Greenwood
H. W. Kinard, D.V.M.	Bamberg
Frank E. Kitchen, D.V.M.	Greenville
G. R. Kitchen, D.V.M.	Sumter
T. E. Lanham, D.V.M.	Edgefield
Worth Lanier, D.V.M.	York
W. R. Latta, D.V.M.	Orangeburg
G. J. Lawhon, Sr., B.Sc., D.V.M.	Hartsville
G. J. Lawhon, Jr., V.M.D.	Hartsville
J. S. Lide, D.V.M.	Newberry
C. B. Lowman, D.V.M.	Newberry
W. K. Magill, B.Sc., D.V.M.	Chester
W. H. Matthews, D.V.M.	Rock Hill
W. D. Mayfield, D.V.M.	Laurens
A. S. Moore, D.V.M.	Walterboro
G. E. H. Moore, D.V.M.	Walterboro
J. H. Moore, D.V.M.	Charleston
Earl A. McDowell, D.V.M.	Greenville
Carl D. McElveen, D.V.M.	Columbia
B. K. McInnes, M.D., V.M.D.	Charleston
B. C. McLean, V.M.D.	Aiken
S. Rice McMaster, D.V.M.	Rock Hill
E. E. Nissen, D.V.M.	Marion
A. B. Pittman, D.V.M.	Springfield
Petro Pshyk, D.V.M.	Summerville
Bruce G. Pratt, D.V.M.	Beaufort
G. D. Radford, D.V.M.	Beaufort
M. J. Ratray, Jr., D.V.M.	Anderson
W. F. Rawlinson, D.V.M.	Manning
T. M. Rhodes, D.V.M.	Naval Base
E. A. Richardson, D.V.M.	Westminster
H. E. Riddle, D.V.M.	Greenville
L. D. Rodgers, D.V.M.	Greenwood
R. R. Salley, D.V.M.	Orangeburg
L. V. Sanders, D.V.M.	Abbeville
F. L. Shuler, D.V.M.	St. George
W. H. Shirer, D.V.M.	Georgetown
G. K. Smith, D.V.M.	Spartanburg
George M. Smith, D.V.M.	Greenville
J. S. Smith, D.V.M.	Conway
J. D. Stith, D.V.M.	Hartsville
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
E. R. Van de Grift, Jr., D.V.M.	Columbia
C. L. Vickers, D.V.M.	Winnsboro
H. A. Webb, D.V.M. (Retired)	Georgetown
U. E. Whatley, D.V.M.	Dillon
J. M. Williams, D.V.M.	Moncks Corner
R. L. Willis, D.V.M.	Charleston
William S. Hicks, D.V.M.	Columbia

THE SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION

A division of Clemson College, the South Carolina Agricultural Experiment Station carries on research to aid South Carolina farmers and to improve South Carolina agriculture in general.

At present, the experiment station consists of the main station at Clemson and six branch stations located in different sections of the state. One of these is at Florence in the Pee Dee section; one at Pontiac near Columbia in the Sandhill region; one in the trucking section near Charleston; one near Blackville in the melon-growing area; one at Summerville in the Coastal Plain region; and one at Johnsonville, known as the Clemson College Sheep Experiment Station, Wellman Division. At Clemson, the office and laboratories of the main station are located on the campus, while the station farm, which consists of approximately 200 acres, is located east of and adjoining the college campus.

The station conducts investigations dealing with the fundamental principles of agricultural science and the application of such principles to practical agricultural operations. Specific sections of the state receive special attention in separate lines of research.

Results obtained from research are made available to farmers through bulletins, circulars, newspaper releases, quarterly publications and personal letters. Technically trained personnel of the station staff are regarded as authorities in their specialized fields, and they are constantly giving out information relating to various fields of agriculture. Services to farmers include entomological and pathological inspection work, biological and soil survey work, and cooperative experimental work with farmers of the state. The station staff cooperates with the Extension Service of the College in holding agricultural meetings and conferences and meeting with farm demonstration agents to give them technical information which they in turn carry to farmers.

Such services are made available to South Carolina through the cooperative financial support of the State of South Carolina, the United States Department of Agriculture, and industrial firms which supply grants-in-aid. There are approximately 100 separate lines of research called projects which are supported wholly or in part by Federal funds. These projects are approved by authorities of USDA, and work on them comes to the attention of some of the leading agricultural authorities in the country. Results from them receive nationwide publication. Such projects benefit the Southeast in particular and the United States as a whole.

The South Carolina Experiment Station is cooperating with other specific states on problems which are common to two or more states, for the benefit of all states participating. There are approximately 20 of these projects known as "regional" projects. About 200 separate projects are supported from funds appropriated by the State of South Carolina, wholly or in part, known as "State" projects. They deal particularly with needs of the South Carolina farmers in varied sections of the state, and in some cases are jointly supported by Federal projects which particularly affect South Carolina.

Opportunity for a limited number of students to secure work in the station is given by the use of research assistants in carrying out projects. Laboratories are always open to inspection by students and others. Any farmer who has a specific question he wants answered may write to the station and receive information.

A full report of the work and expenditures of the Experiment Station is published annually and may be obtained free of charge by writing to the Director, South Carolina Agricultural Experiment Station. All other publications of the station are also free and will be sent on request.

FERTILIZER INSPECTION AND ANALYSIS

The Department of Fertilizer Inspection and Analysis of the Clemson Agricultural College is charged with enforcing the South Carolina fertilizer law.

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. 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.

The work of fertilizer inspection and analysis is under the general supervision of the Fertilizer Board of Control consisting of a Committee of the Board of Trustees of the Clemson Agricultural College and the Dean of Agriculture.

The staff consists of a Secretary of the Fertilizer Board of Control, who is also the Director, ten part-time fertilizer insecticide inspectors and nine chemists.

The department coordinates and cooperates with all other agricultural agencies in striving for a better and more efficient fertilizer program. The daily report of the inspectors has served as a means

of placing numerous bulletins, purebred animals and certified seeds with farmers throughout the state.

THE CLEMSON COLLEGE EXTENSION SERVICE

The Clemson College Extension Service is a branch of the Clemson Agricultural 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 assistant director, three district supervisory agents, an administrative assistant, 46 county agents—one in each county, 69 assistant county agents, and 43 agricultural specialists in agricultural economics, agricultural engineering, agronomy, beekeeping, boys' 4-H club work, dairying, crop insects and diseases, cotton ginning, forestry, horticulture, livestock, marketing, poultry and turkeys, publications, soil conservation and visual instruction.

The extension Home Demonstration Staff includes a state home demonstration agent, an assistant state home demonstration agent, three district supervisory agents, one home demonstration agent-at-large, 46 county home demonstration agents—one in each county, 34 assistant home demonstration agents, and 8 specialists in clothing, family life, food production and conservation, girls' 4-H club work, health, home management, marketing and nutrition.

Negro Extension Workers include a state leader and an assistant state leader for Negro agricultural extension work, a state leader and two assistant state leaders 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, 6 assistant Negro agricultural agents, 33 Negro home demonstration agents, and 4 assistant Negro home demonstration agents.

LIVESTOCK SANITARY WORK

Clemson College Livestock Department is consolidated under one Director with the United States Department of Agriculture, Agricultural Research Service, Animal Disease Eradication Branch, 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 inter-state movement of livestock and poultry. When requested, investigations are made, consultations are held and assistance in diagnosis is rendered. Certain disease treatment is offered. 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 Sand Hill 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 work from the Columbia office, and field veterinarians are located in various sections of the state. Their services may be obtained upon short notice by request. In addition to the regular field force of veterinarians directly connected with the Columbia office, practicing veterinarians are commissioned as Deputy State Veterinarians and assist in the eradication of infectious diseases of

livestock. At present there are 102 veterinarians so commissioned, and their locations are such that the Clemson College Livestock Sanitary Department is in a position to promptly and completely control and eradicate diseases 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 aid the present industries in the State to do research work on the material resources of the State, leading to the establishment of new industries, and studying methods of utilizing waste products, etc.

In addition to serving the industries of the State and helping to solve engineering problems for the agricultural interests, it is hoped, in cooperation with the stations of other states, to add to the store of scientific and engineering knowledge. The staff consists of well-trained men from the various schools and departments of the College. The laboratories of the several departments of engineering, as well as others, are available for the use of the station in its investigation.

During the war period the Engineering Experiment Station undertook worthwhile projects in cooperation with the War Production Board. Emphasis is now being placed upon special research in ceramics, machine design and heat transfer.

ITINERANT TEACHER TRAINING IN VOCATIONAL 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.

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 training 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. Professor J. B. Monroe, Head, Department of Vocational Agricultural Education has general charge of this work. Information on any phase may be secured by contacting him.

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, water supply and sanitation, etc. Such activities, undertaken in the interest of the general welfare, are encouraged by the College.

THE
CLEMSON
AGRICULTURAL
COLLEGE
RECORD

PART VII

Student Register
1955-1956

GRADUATES OF 1955

BACHELORS' DEGREES CONFERRED JANUARY 30, 1955

SCHOOL OF AGRICULTURE

BACHELOR OF SCIENCE DEGREE

Agriculture—Agricultural Economics Major

Julian Juan Carlile.....Princeton, N. J.	Barrett Swayne Lawrimore.....Conway
Henry Walter Kalinowski.....Irvington, N. J.	Carl Alton Ouzts.....McCormick
William Henry Yancey, Atlanta, Ga.	

Agriculture—Agronomy Major

Walter Marvin Brigman, Jr.....Latta	Charles Bryan Huggins.....Aynor
Marion Dargan Hawkins, Jr.....Hartsville	Jack Sease.....Ehrhardt

Agriculture—Animal Husbandry Major

Herbert Sloan Anderson, Jr...Timmonsville	Francis Asbury Hipp.....Saluda
Harold Austin Breazeale.....Pendleton	John J. Hood, Jr.....Ridgeway
Robert English Cousar.....Sardinia	Allison Thomas Hubert...Waynesboro, Ga.
Leon Allison Davis, Jr.....Cope	Oscar Lee Hughes, Jr.....Cordova
Madison Keith Dennis.....Hemingway	James Andrew Leitner, Jr.....Irmo
Bobby Mendel Dill.....Landrum	Jack McAlister.....Easley
Joseph Hyde Easley, Jr.*.....Rock Hill	Max Keith McMillan, Jr.....Mullins
Joseph Bruno Gentile.....Brooklyn, N. Y.	Robert Paredes.....Irwin, Pa.
Rupert Adrian Godshall, Jr.....Columbia	Jerry Walker Powell.....Johnsonville
James Cecil Greene, Jr.....Jackson	Adrian Lee Rhode.....Cottageville
Nolten Augustus Hildebrand, Jr.—	Edward Andrew Stevenson.....Ulmers
St. Matthews	George Tillman Swearingen.....Trenton
Marion Leon West, Holly Hill	

Agriculture—Dairy Major

Bayly Ringold Ebner.....Meggett	James Kermit Henderson **.....Clemson
John Pinckney Workman, Kinards	

Agriculture—Entomology Major

Richard Carlton Everts, Wilmington, Del.
Joseph Thomas Whitlaw, Jr., Silver Spring, Md.

Agriculture—Horticulture Major

Francis Berwick Cates...Wadmalaw Island	Edward William Eaton, Jr...Baltimore, Md.
Robert James Donaldson, Jr...Mt. Pleasant	Mitchell Francis Rogowski...Irvington, N. J.
Ross Onley Weed, Irmo	

Agriculture—Poultry Major

William Aaron Radcliff.....Norfolk, Va.	Elliott Tilman Wooten.....Greer
---	---------------------------------

SCHOOL OF ARTS AND SCIENCES

BACHELOR OF SCIENCE DEGREE

Arts and Sciences

Alan York Cannon.....Anderson	James Travis Greene.....Augusta, Ga.
Robert William Gravlee.....DeLand, Fla.	James Arthur Hayes.....Greenville
William Carroll Moore, Greenwood	

Industrial Physics

Harry Carroll *.....Bamberg	George Edwin Prince, Jr.....Columbia
-----------------------------	--------------------------------------

Pre-Medicine

William Fitzgerald Rutherford...Newberry	John Rutherford Smith.....Charleston
--	--------------------------------------

* With honor.

** With high honor.

SCHOOL OF EDUCATION

BACHELOR OF SCIENCE DEGREE

Education

Gerald Dale Cantt.....	West Columbia	Mark Anthony Kane.....	Milburn, N. J.
James Carroll Hudson.....	North Charleston	Gerald Edward Lyons.....	Yemassee
		George Sanko, Aiken	

Industrial Education

Thomas Pickens Gregory.....	Chester	Lloyd Adrian Payne.....	Sandersville, Ga.
Lawrence Neal Meader.....	Orangeburg	Tom Pitchford Reid.....	Walhalla
		Thomas Azor Turner, Blacksburg	

Vocational Agricultural Education

Henry Mack Cox.....	Loris	Ralph Ruppert Stone.....	Hyman
Francis Patrick Hodges.....	Conway	Frederick Betha West.....	Conway
John Rhodes Millsap.....	Gable	(Diploma awarded posthumously)	
		Robert Leonard West, Bowman	

SCHOOL OF ENGINEERING

BACHELOR OF SCIENCE DEGREE

Agricultural Engineering

(Agricultural Engineering is jointly administered by the School of Agriculture and the School of Engineering)

Guy Mobley Godwin.....	Lake City	Leland Franklin Small.....	Nichols
Tracy White Hinson.....	Lancaster	Jack Carter Whitesides.....	Clover
Jesse George McElmurray, Jr.—	North Augusta		

Architectural Engineering

James Hiram Keller.....	Gaffney	William Joel Perry.....	Timmons ville
William Ronald Major.....	Williamston	Clifton Dukes Wright, Jr....	Shalimar, Fla.

Architecture

Grayson Junior Annas.....	Hudson, N. C.	Stanley Brittain Duffies II—	Roselle Park, N. J.
Carl Napier Atkinson, Jr.—	St. Petersburg, Fla.	Richard Allen McMahan.....	Columbia
Thomas Cleveland Bass.....	Greenville	Ladson Delmus Tankersley.....	Greenville

BACHELOR OF CERAMIC ENGINEERING DEGREE

Robert Murdoch Bethune, Jr.....	Cheraw	Clifford Gray Brittain.....	Hickory, N. C.
	Harmon Calhoun	Darnell, Denmark	

BACHELOR OF CIVIL ENGINEERING DEGREE

Donald Kenneth McLaurin.....	Bethune	Clare Dale Peters.....	North
Robert Harris Nott.....	Charlotte, N. C.	James Hudgens Watts, Jr.....	Mountville

BACHELOR OF ELECTRICAL ENGINEERING DEGREE

Benjamin Eugene Brooks.....	Pelzer	Carlyle Wesley Merritt.....	Piedmont
Roger Joseph Lorelle.....	Brooklyn, N. Y.	Neal Franklyn Moseley.....	Winter Park, Fla.
Jack Gwyn McCachern.....	Concord, N. C.	Elwyn Gene Nicholson.....	Abbeville
	William Bynum Robinett, Conway		

BACHELOR OF MECHANICAL ENGINEERING DEGREE

George Coulter Earle.....	Washington, D. C.	Billy Frank Holcombe.....	Central
George Robert Ferguson.....	Clover	William Brownlee Seabrook.....	Anderson
Nathan Wiley Holbrook.....	Nashville, Tenn.	Don Bowie Winchester.....	Pickens

SCHOOL OF TEXTILES

BACHELOR OF SCIENCE DEGREE

Textile Chemistry

Gettys Nunn Harris, Rock Hill

Textile Engineering

Maung Maung Aye.....	Rangoon, Burma	Andrew David Mitchell.....	Laurens
James Jeter Easley.....	Greenville	James Wideman Phillips, Jr....	Summerton
Charles Vardell Gage.....	Clemson	Maung Maung Than.....	Rangoon, Burma

Textile Manufacturing

Robert Frank Compton.....	Laurens	Morton A. Mhlstin.....	Brooklyn, N. Y.
Barry Dean Crocker.....	Lockhart	James Hubert Moore.....	Toccoa, Ga.
Ambrose Henry Easterby, Jr.....	Greenville	John Wylie Moore.....	Chester
Creighton David Griggs, Jr.....	Travelers Rest	Hoyle Eugene Pettus.....	Fort Mill
William Clarence Higginbotham, Jr.—	Rowesville	Robert Lonnie Saylor, Jr.....	Ninety Six
Edward Bernard Huggins.....	Lancaster	Donald Clay Shane.....	Florence
William Houston Jones.....	Woodruff	Marion Curlette Smith.....	Winnboro
Robert Jefferson Lowery.....	Lancaster	Harold Dean Stansell.....	Greenville
Donald Ray Massey.....	Fort Mill	Jones Frank Neal Tinsley.....	Easley
	Donald Franklin Wilkins, Chesnee	Lades R. Warriner, Jr.....	Bristol, Va.

MASTERS' DEGREES CONFERRED JANUARY 30, 1955

SCHOOL OF AGRICULTURE

MASTER OF SCIENCE DEGREE

Dairy

Glen Dewitt O'Dell, Clemson

Horticulture

Nancy Craig McLees, Walhalla

SCHOOL OF ARTS AND SCIENCES

MASTER OF SCIENCE DEGREE

Physics

Richard Austin Branham.....Atlanta, Ga. Warren Bryson Rogers, Jr.....Greenville

SCHOOL OF EDUCATION

MASTER OF SCIENCE DEGREE

Industrial Education

Joseph Roberts Austell, Clemson

Vocational Agricultural Education

Parker Watson Hall, Pendleton

SCHOOL OF TEXTILES

MASTER OF SCIENCE DEGREE

Textile Chemistry

William Theodore Roff, Jr., Suffern, N. Y.

BACHELORS' DEGREES CONFERRED JUNE 5, 1955

SCHOOL OF AGRICULTURE

BACHELOR OF SCIENCE DEGREE

*Agriculture—Agricultural Economics Major*Robert Langston Huffman.....Newberry William Earl Johnson III.....Aiken
Louis Stout Philhower, Jr., Williamsburg, Va.*Agriculture—Agronomy Major*Sumter Elwood Calcutt.....Pamplico Benjamin Franklin Parker.....Marion, N. C.
Donald Cockfield.....Lake City Silas Nathaniel Pearman, Jr.....Columbia
John Ollen Hardee.....Greeleyville Clarence Franklin Sease.....Ehrhardt
Martin William McCarter, Jr.....Clover Bryan Legare Walpole, Jr.*.....Johns Island
Gene Richard Ware, Due West

* With honor.

Agriculture—Animal Husbandry Major

Edward Dewey Byrd, Jr.	Kingstree	Harry Harley Mills, Jr.	Ridgeland
Niles Craig Clark, Jr. *	Waterloo	Arthur Glenn Neil, Jr.	Waterloo
Dale Lester Collins.	Mullins	Bruce Garvin Nickles.	Seneca
Edward Leon Corley.	Lexington	Charles Harrison Quarles.	Abbeville
Robert Barney Dorn, Jr.	Irmo	Frederick Johnson Rivers.	Chesterfield
Robert Marvin Edwards, Jr.	Elloree	John Earle Smith, Jr.	Kinards
Henry Webster Hodges.	Sumter	James Clement Ulmer, Jr.	Elloree
Gilbert Lamar Horne.	Jonesville	Phillip Whittington Whiteside—	
James Samuel Horne, Jr.	St. George		Anniston, Ala.
Reuel McLeod.	Timmonsville		

Agriculture—Dairy Major

Willis Wilson Crain.	Chester	Francis Stuart Hanckel III.	Charleston
Rawl Dargan Culclasure, Jr.	St. Matthews	Kenneth Light Moore.	Calhoun, Ga.
Richard Morris Freund.	Philadelphia, Pa.	Chauncey Depew Smith, Jr. *	Spartanburg
	Thomas Hall		Trively, Clemson

Agriculture—Entomology Major

James Aubrey Gallman, Inman

Agriculture—Horticulture Major

James Allan Cox.	Yonges Island	Donald Ervin Lidke.	Maplewood, N. J.
	Dan Morrow Robinson, Lancaster		

Agriculture—Poultry Major

John Eugene Garrison, Buffalo, N. Y.

SCHOOL OF ARTS AND SCIENCES

BACHELOR OF SCIENCE DEGREE

Arts and Sciences

Melvin Eugene Barnette *	Pendleton	Wade Hampton Gilmer, Jr.	Anderson
George Ulmer Bennett.	Columbia	Homer Leroy Hoover, Jr.	Wooster, Ohio
Robert Edward Bradford.	Fords, N. J.	William Theodore Jefferies **—	
Clifford Chandler Bryan.	Rains		Burlington, N. C.
Eddie Neel Dalton.	Asheville, N. C.	William Edwin Myrick, Jr.	Ulmers
Bobby Julian Daniel.	Oxford, N. C.	Washington Reid Patrick.	Charleston

Industrial Physics

Alfred Erskine Hawkins, Greenville

Pre-Medicine

Richard Albert Blair.	Louisville, Ky.	Thelbert Rudolph Suggs *	Loris
Forrest Farley Hedden.	Walhalla	Joseph William Taber, Jr.	Pendleton
Robert Eaton Hunter **	Clemson	Lewis Johnson Turner, Jr.	North Augusta
John Delano Mixon.	Hampton	Jesse Alexander White, Jr.—	
Melvin Bond Nickles, Jr.	Laurens		Greensboro, N. C.
	Steven Merle White, Clemson		

SCHOOL OF CHEMISTRY

BACHELOR OF SCIENCE DEGREE

Agricultural Chemistry

William Carl Nettles, Jr., Clemson

Chemistry

Carl Columbus Bailey, Jr.	Clemson	Talmage Dewitt Foster, Jr.	Spartanburg
Marcus Karl Brandt.	Spartanburg	James Drew Hindman.	Red Wing, Minn.
Robert Lee Brock.	Belton	Barbour Hubert Littleton.	Walhalla
	William Schirmer, Jr., Charleston		

* With honor.

** With high honor.

SCHOOL OF EDUCATION

BACHELOR OF SCIENCE DEGREE

Education

Franklin Hugh Atkins.....	Chesnee	Wayne Ray Davis.....	Liberty
Cecil Rigby Brown.....	Spartanburg	Harold Douglas Kingsmore.....	Buffalo
James Neel Calhoun.....	Ninety Six	Oscar Belton Sanders.....	Yonges Island
	Bernard Carroll Smith,*	Conover, N. C.	

Industrial Education

Charles Edward Gray.....	Spartanburg	Simon Weaver Humphrey.....	Bethune
David Henry Harrison.....	Clemson	William Dewey Mitchell, Jr....	Spartanburg
	Augustus Maynard	Sharkey, Clemson	

Vocational Agricultural Education

William Jake Caudill.....	Ronda, N. C.	Lawrence Elbert Murphree.....	Tamassee
Remo Emerson Cribb.....	Florence	Robert Hastings Randall.....	Ridge Spring
James Allen Herndon.....	Bamberg	George Wayne Sawyer, Jr.....	Monetta
Wildon Hucks.....	Galivants Ferry	Carl Britton Tucker.....	Mt. Croghan
David Allen Inabinet.....	St. Matthews	John Richard Underwood.....	West Union
Terrell Maurice McMillan.....	Bamberg	William Weston Weldon.....	Bennettsville
Thurman O'Neal Martin.....	Aynor	James Kirby Willis.....	Clio

SCHOOL OF ENGINEERING

BACHELOR OF SCIENCE DEGREE

Agricultural Engineering

(Agricultural Engineering is jointly administered by the School of Agriculture and the School of Engineering)

Ernest Thomson Anderson, Jr....	Lowrys	James Aubrey Murphy**.....	Starr
Douglass Kennedy Britt.....	McCormick	John David Patrick.....	Clemson
John Hoyt Hardee.....	Loris	Sanford Newton Smith.....	Spartanburg
Azel James Hutto, Jr.....	Orangeburg	Reed Clifton Tanner.....	Kingstree
William Fred McClure.....	Chesnee	Eustice Hinson Walters.....	Lancaster
James David Martin.....	Lyman	Byron Kenneth Webb.....	Cross Anchor
	Floyd Coleman	Worley, Nichols	

Architectural Engineering

Raymond Neill Campbell.....	Greenville	Clyde Albert Glenn, Jr.....	Anderson
John Carroll Cox.....	Greenville	Roy Bronson Jeffcoat.....	Swansea

Architecture

Allen Edgar Arthur, Jr.....	Orlando, Fla.	Richard Dillard Mitchell.....	Greenville
George DeWitt Auld.....	Greenville	Augustus Louis Ott III.....	Columbia
Philip Everett Dugger.....	Tampa, Fla.	Jimmie DeLeon Phipps, Jr.....	Lake City
John Walter Harrison.....	Sumter	George Legare Porcher.....	Charleston
George Joseph Madlinger.....	Memphis, Tenn.	William Thomas Sumner.....	Spartanburg
Charles Smith Major, Jr.....	Anderson	William Kay Turner.....	Columbia

BACHELOR OF CERAMIC ENGINEERING DEGREE

Arthur English Brown.....	Florence	Robert Guy Hill.....	Florence
	Charles William	Reece, Greer	

BACHELOR OF CHEMICAL ENGINEERING DEGREE

James Hodgson Abbott, Jr.....	Canton, N. C.	Angus McPherson Lander.....	Spartanburg
Joe Major Alexander.....	Anderson	John Connor Leutwyler**.....	Savannah, Ga.
Bacil Freeman Dickert.....	Columbia	Jack Tompkins Moyd.....	Ninety Six
Fritz Richard Franke.....	Spartanburg	William Francis Stafford.....	Oswego
Charles Dean Hendrix.....	Greenville	Bobby James Tharpe.....	Varnville

BACHELOR OF CIVIL ENGINEERING DEGREE

Robert Myles Carter.....	Walterboro	John Lemuel Leaphart.....	North
Henry Reynolds Coleman.....	Abbeville	David Morris.....	Shelby, N. C.
Charles Glenn Crafton, Jr.....	Camden	Clyde Ezra Poovey, Jr.....	Hickory, N. C.
Harry Leon King, Jr.....	Atlanta, Ga.	Samuel David Shearer, Jr.....	Anderson

* With honor.

** With high honor.

BACHELOR OF ELECTRICAL ENGINEERING DEGREE

William Harry Allison	Greenville	John Calhoun Harris	Florence
William Donald Ashcraft ***	Florence	George Simeon Harvey, Jr.	Columbia
John Martin Bailey, Jr. ***	Seneca	John Davis Hunsuck	Spartanburg
William Heard Boatwright	Darlington	John Robert King	Flovilla, Ga.
Thomas Woodward Bookhart *	Kingstree	Cecil Eugene Kirby	Sumter
Jasper Lee Byrd, Jr.	Hartsville	William Lawrence Orr, Jr. *	Hendersonville, N. C.
Elton Myers Calder	Savannah, Ga.	Richard Blair Sherer	Rock Hill
Thomas Champion Drew, Jr. *	Gaffney	Richard Lane Sullivan	Cristobal, Canal Zone
John Melvin Gasque, Jr.	Columbia	John Clellan Thorne	Chesnee
William Alfred Gasque	Marion	Robert Lynn Wyatt, *	Florence
Edward Douglas Guy, Jr.	Abbeville		

BACHELOR OF MECHANICAL ENGINEERING DEGREE

Marion Hugh Anderson *	Greenville	Samuel Bolivar George II.	Lexington
Garland Franklin Brewer	Seneca	Joseph Dennis Hayes, Jr. *	Latta
James Carlisle Cauthen, Jr.	Orangeburg	Walter Hazel Hendrix **	Heath Springs
William Bryan Clinton, Jr.	Rock Hill	Whitten East Little **	Myrtle Beach
William Carol Cook	Woodruff	John Calvin McGill	Charlotte, N. C.
Cornice Earl Driskill	Asheville, N. C.	Champ Forney Nelson	Savannah, Ga.
Roy Calhoun Fuller, Jr.	Murphy, N. C.	Roy Edward Pardue, Jr.	Graniteville
	Allen Wayne Ward,		Birmingham, Ala.

SCHOOL OF TEXTILES

BACHELOR OF SCIENCE DEGREE

Textile Chemistry

Benjamin Harrison Bell	Inman	Richard Lee Neely	Rock Hill
William Henry Elam	Ware Shoals	William Oscar Stone, Jr. *	Newberry
William Carlisle Howard	Canton, N. C.	Samuel Gregg Thompson *	Charleston Heights
John Howard Howell	Columbia		
Joe Franklin Mattison **	Belton		

Textile Engineering

Robert Michael Ashmore	Greenville	Claude Albert Graves, Jr.	Due West
William Thomas Bowen	Clemson	Andrel Knox Helms **	Waxhaw, N. C.
Joseph Robert Clelan	Lewistown, Pa.	Allston Thomas Mitchell ***	Spartanburg
Clarence Westmoreland Davis *	Abbeville	Douglas Donald Padgett *	Saluda
Ray Hampton Fowler	Spartanburg	Maung Khin Si	Rangoon, Burma
Robert Carl Grant	Abbeville	Jack Randall Tatham	Greenville
	Huston Edwin Thompson, Gray Court		

Textile Manufacturing

James Caleb Bass, Jr.	Florence	Lacy Wellington King, Jr.	Cheraw
Earl Dean Berry	Spartanburg	Thomas Broome Lee	Gaffney
Roy Odell Coker, Jr.	Taylors	Thomas Grigsby Livingston	Neeses
Walter Richard Coker	Laurens	John Martin Lunsford	Spartanburg
Gerald B. Cooper	Lancaster	Robert Samuel Mabry	Greenville
Leon Archie Cooper, Jr.	Columbia	Eddie Thomas Madden	Clearwater
Garland Walker Duvall	Cheraw	John Jasper Mikell	Greenville
Charles Hicklen Ferguson	Great Falls	Robert Thayne Mooneyhan	West Columbia
Ben Robert Fox *	Inman	Marlyn Donald Morgan	Gaffney
Rogers Oscar Gaines	Greenwood	Preston Calhoun Opt.	Belton
Joe Dean Garner	Gaffney	Joel DuPre Pate	Winnsboro
David Raymond Gentry *	Easley	Randolph Orlando Potts	Fort Mill
Hamlin Joseph Gleaton	Greenville	Donald Howard Ross	Rock Hill
William Madison Golden	Piedmont	Clade Hartford Seagraves	Athens, Ga.
Walter Dewey Gunnell, Jr.	Spartanburg	Clarke Robertson Starnes, Jr.	Gastonia, N. C.
Ellis Jesse Gunter	Anderson		
Edward Bryan Hammond	Johnsonville	John Alvin Templeton	Greenville
William Frampton Harper	York	Judge Ruben Thornton	Greenville
Donald Lee Harrison	Brunson	Joseph King Tinsley	Forest City, N. C.
Robert Marshall Harrison	Greenwood	Lawrence Anthony White	Camden
Kenneth Rutherford Hart	Rock Hill	Richard Edward Whitlock	Lake City
Alfred Douglas Hellams	Laurens	Richard Anthony Whitten	Macon, Ga.
Billy Edwin Hodgins	Camden	James Thomas Wilkerson	Anderson
Fred Harold Hope	North Augusta	William Edward Worthy	Chester
William Addison Key	Columbia	Charles N. Wyatt, Jr.	Greenville

* With honor.

** With high honor.

*** With highest honor.

MASTERS' DEGREES CONFERRED JUNE 5, 1955

SCHOOL OF AGRICULTURE

MASTER OF SCIENCE DEGREE

Agricultural Economics

William Howard Faver, Jr. Eastover Fred Hubert Garner Union

Entomology

John Patrick Fulmer, Augusta, Ga.

Zoology

James McKenzie Alexander III, Clemson

SCHOOL OF ENGINEERING

MASTER OF SCIENCE DEGREE

Agricultural Engineering

(Agricultural Engineering is jointly administered by the School of Agriculture and the School of Engineering)

Carl McHenry Lund, Clemson

MASTER OF CERAMIC ENGINEERING DEGREE

Irvin Fenley Havens, Clemson

MASTER OF ELECTRICAL ENGINEERING DEGREE

Walter Lee Ball, Clemson

MASTER OF MECHANICAL ENGINEERING DEGREE

James Walter Hammond, Williamston

HONORARY DEGREES CONFERRED JUNE 5, 1955

DOCTOR OF LAWS

James Oscar Wynn, New York, N. Y.

BACHELORS' DEGREES CONFERRED AUGUST 13, 1955

SCHOOL OF AGRICULTURE

BACHELOR OF SCIENCE DEGREE

Agriculture—Animal Husbandry Major

William Driskell Lanham, Jr. Edgefield Harold Garland Smoak Pacolet
William Everette Salley Orangeburg Billy Gene Westbrook Campobello

Agriculture—Dairy Major

William Douglas Atkinson Lowrys Charles Shaw Maloney Adel, Ga.
Cecil Bryan Jordan St. George Jimmie Wallace Verdin Greenville

Agriculture—Horticulture Major

William Roy Garren Asheville, N. C. Thomas Earle Hendricks Central

SCHOOL OF ARTS AND SCIENCES

BACHELOR OF SCIENCE DEGREE

Arts and Sciences

Henry William Areheart, Jr., West Columbia Joseph Pressley Long Greenwood
John Robert Cooper Clemson Walter Wesley Shealy Columbia
Joseph Chandler Kinsey Atlanta, Ga. John Charles Talbert Concord, N. C.

Industrial Physics

James Maner Tuten, Jr., Greenville

Pre-Medicine

Melvin Capers Latham, North Augusta

SCHOOL OF EDUCATION

BACHELOR OF SCIENCE DEGREE

Education

John Crimmins Hankinson, Jr., McBean, Ga. Johnny Ray Preshers.....Anderson

Industrial Education

Lonnie Leonard Shealy, Summerville

Vocational Agricultural Education

Gilbert Henry Cox, Jr.....Spartanburg	Baxter McAulay Hood.....Matthews, N. C.
Jack Quincey Gerrald, Jr.....Conway	Charlie Webster.....Blenheim
Smith Edward Hinnant.....Andrews	Clyde Eugene Woodall *.....Marietta

SCHOOL OF ENGINEERING

BACHELOR OF SCIENCE DEGREE

Agricultural Engineering

(Agricultural Engineering is jointly administered by the School of Agriculture and the School of Engineering)

Claude Lowry, Jr.....Pembroke, N. C. Richard Stokes Quattlebaum.....Chester

Architecture

Moodye Robbins Clary.....Charleston	William Earl Jones III.....Durham, N. C.
Robert Hugh Doyle *.....Clemson	Douglas Eugene Satterfield.....Lyman

BACHELOR OF CERAMIC ENGINEERING DEGREE

Russell Carlton Ashmore, Jr., Greenville

BACHELOR OF CIVIL ENGINEERING DEGREE

Robert Beryl Blackmon.....Clemson Benjamin Paul Marcoux...Lake Wales, Fla.

BACHELOR OF ELECTRICAL ENGINEERING DEGREE

Kenneth Melton Porter—	George Thomas Tate.....Taylors
East Flat Rock, N. C.	George Bruce Woods, Jr.....Rock Hill

BACHELOR OF MECHANICAL ENGINEERING DEGREE

Walter Bernard Hall, Jr.....Spartanburg	Robert William Patterson.....Clemson
Tola B. Lewis, Jr.....Conway	Lloyd Calvin Ross.....Charlotte, N. C.
Noel Veeder Long.....Ossining, N. Y.	James Augustus Sloan.....Clemson

SCHOOL OF TEXTILES

BACHELOR OF SCIENCE DEGREE

Textile Engineering

Charles Luther Hall.....Greenwood	L. C. Smith.....Greenwood
Robert Eugene McClure.....Anderson	Derrell Gene Sullivan.....Spartanburg
Joe Lane Richardson.....Fair Play	Duffie Thomas Taylor, Jr.....Florence
Bob Leonard Wilson	Anderson

Textile Manufacturing

Earl Wesley Ashley.....Honea Path	Julian Woodburn McCracken....Columbia
James Earl Bennett, Jr.....Greer	Ralph Bernard Price.....Lexington
Tommy Ray Feemster.....Gastonia, N. C.	Wayne Burts Richey.....Ware Shoals
Marshall Olin Griffin, Jr.....Fort Mill	John David Tice.....Anderson
Belvin Hughes.....Enoree	Bobby J. Whitehead.....Great Falls
Paul Winfred Wolff	Anderson

* With honor.

MASTERS' DEGREES CONFERRED AUGUST 13, 1955

SCHOOL OF AGRICULTURE

MASTER OF SCIENCE DEGREE

Agricultural Economics

Jerry Hill Padgett, Hayesville, N. C.

Entomology

William Alden Banks Preston, Ga. Furman Reeves Gressette, Jr., St. Matthews

SCHOOL OF EDUCATION

MASTER OF SCIENCE DEGREE

Education

Henry Towles Crigler, Jr., Greenville

RECORD OF HONORARY DEGREES CONFERRED
ON THE OCCASION OF
THE DEDICATION OF THE AGRICULTURAL CENTER
AUGUST 17, 1955

DOCTOR OF ENGINEERING

SILAS CALHOUN McMEEKIN, engineer, civic leader, director of business concerns, active in philanthropic enterprises in various executive capacities, president of the South Carolina Electric and Gas Company and its two subsidiaries, South Carolina Generating Company and South Carolina Natural Gas Company.

DOCTOR OF LAWS

EDGAR ALLAN BROWN, able and experienced lawyer, admitted to practice in all State and Federal Courts including the United States Supreme Court, banker, business executive, master of the science of politics and government, tireless and courageous leader in state and national affairs.

DOCTOR OF SCIENCE

JAMES EARL COKE, agricultural scientist, distributive economist, resource conservationist, liaison in federal and state relations in scientific and public service agriculture, promoter of agricultural enterprises, vice-president of the Bank of America.

ROBERT RICHARDSON COKER, agriculturist, developer and director of large enterprises, president of Coker's Pedigreed Seed Company, president of J. L. Coker and Company, first president of the South Carolina Farm Bureau, adviser and consultant to agricultural policy groups at the national level.

ALED PIERCE DAVIES, born in North Wales, educated in North Wales, Liverpool, England, and Washington, D. C., former public relations representative, member of the National Press Club, interested in sheepfarming and raising and training border collies, director of the Department of Livestock, American Meat Institute.

DOCTOR OF TEXTILE INDUSTRIES

HAROLD BOESCHENSTEIN, industrial executive, financier, patron of the arts, director of financial and industrial concerns, trustee of research institutes, foundations, museums of art and natural history, chairman of the board of directors of Fiberglas Canada Ltd., president of Owens-Corning Fiberglas Corporation.

PAOLINO GERLI, born in Italy, educated in Italy and Switzerland, civic and religious leader, active in the America-Italy Society, member of Cardinal Hayes Library, director of numerous industrial concerns, president of Gerli and Company, Inc., chairman of the board of LaFrance Industries, Inc.

ARTHUR OGDEN WELLMAN, industrialist, banker, sponsor of youth activities, member of government advisory committees of national scope, director of the National Association of Wool Manufacturers, president of Nichols and Company of Boston, president of Wellman Combing Company, Johnsonville, South Carolina.

GRADUATES OF 1955 BY MAJOR COURSES

SCHOOL OF AGRICULTURE	97
Agricultural Economics	8
Agronomy	13
Animal Husbandry	46
Dairy	14
Entomology	3
Horticulture	10
Poultry	3
SCHOOL OF ARTS AND SCIENCES	39
Arts and Sciences	22
Industrial Physics	4
Pre-Medicine	13
SCHOOL OF CHEMISTRY	8
Agricultural Chemistry	1
Chemistry	7
SCHOOL OF EDUCATION	51
Education	14
Industrial Education	11
Vocational Agricultural Education	26
SCHOOL OF ENGINEERING (INCLUDING DOUBLE MAJORS)	139*
Agricultural Engineering	20
Architectural Engineering	8
Architecture (4-Year)	22
Ceramic Engineering	7
Chemical Engineering	10
Civil Engineering	14
Electrical Engineering	31
Mechanical Engineering	27*
SCHOOL OF TEXTILES	115
Textile Chemistry	9
Textile Engineering	26
Textile Manufacturing	80
TOTAL GRADUATES OF 1955 (EXCLUDING DUPLICATES)	448

* Includes one student who was graduated both in Mechanical Engineering and in Textile Manufacturing.

TOTAL GRADUATES BY MAJOR COURSES, 1896-1955

Major Course	Total	Major Course	Total
Agriculture	244	Electrical Engineering	1,024
Agriculture and Animal Industry	80	Engineering Industrial Education	70
Agriculture and Chemistry	69	Entomology	138
Agricultural Chemistry	100	Forestry	8
Agricultural Economics	196	General Science	360
Agricultural Education	197	Horticulture	368
Agricultural Engineering	328	Industrial Education	219
Agronomy	652	Industrial Physics	42
Animal Husbandry	592	Mechanical Engineering	871
Architectural Engineering	92	Mechanical and Electrical	
Architecture	374	Engineering	489
Arts and Sciences	406	Poultry	21
Bachelor of Science	3	Pre-Medicine	183
Botany	12	Soils	9
Ceramic Engineering	21	Textile Chemistry	229
Chemical Engineering	109	Textile Engineering	1,000
Chemistry	273	Textile Industrial Education	85
Chemistry and Geology	11	Textile Manufacturing	792
Chemistry-Engineering	43	Veterinary Science	16
Civil Engineering	904	Vocational Agricultural	
Dairy	302	Education	713
Education	100	Weaving and Designing	42

Double Majors

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 Mechanical Engineering	1
Agronomy and Vocational Agricultural Education	4
Animal Husbandry and Vocational Agricultural Education	5
Animal Husbandry and Agricultural Education	3
Animal Husbandry and Dairy	2
Architecture and Architectural Engineering	11
Architecture and Civil Engineering	1
Architecture, four-year, and Architecture, five-year	3
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
Electrical Engineering and Industrial Physics	1
Electrical Engineering and Mechanical Engineering	16
Electrical Engineering and Textile Engineering	1
Entomology and Pre-Medicine	1
General Science and Education	1
General Science and Electrical Engineering	1
Horticulture and Agronomy	1
Horticulture and Architectural Engineering	1
Mechanical Engineering and Textile Engineering	1
Poultry and Vocational Agricultural Education	1

Pre-Medicine and Textile Chemistry	2
Textile Engineering and Mechanical and Electrical Engineering	1
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
Total Graduates from 1896 through 1955	11,868

LIST OF STUDENTS IN NINE-WEEKS SUMMER TERM AND IN SPECIAL PROGRAMS, 1955 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, 1955, are indicated by an asterisk (*).

Name and Course	Address	Name and Course	Address
Abercrombie, W. G. (CS).....	Fountain Inn	Barnette, D. R. (CS).....	Inman
Ables, J. R. (CS).....	Liberty	Barrett, A. M. (Unc).....	Anderson
Adams, L. H. (CS).....	Honea Path	Barton, E. S. (CS).....	Greenville
Addis, L. C. (CS).....	Easley	Bates, M. R. (CS).....	Neeses
Addis, M. B. (Unc).....	Walhalla	Bauknight, I. M. (CS).....	Florence
Addison, H. F. (CS).....	Eastanollee, Ga.	Beach, R. W. (CS).....	Charleston
Agnew, R. L. (CS).....	Hagood	Beddoes, W. E. (CS).....	Sumter
Agro, L. (CS).....	White Plains, N. Y.	Beeren, F. W. (CS).....	Clover
Alexander, J. G. (CS).....	Fairforest	Begley, J. F. (CS)*.....	Norris
Alford, E. C. (Unc).....	Spartanburg	Belcher, C. (Unc).....	Anderson
Alford, J. L. (CS)*.....	Dillon	Belgard, A. J. (CS)*.....	Evanston, Ill.
All, L. D. (CS).....	Savannah, Ga.	Bell, H. B. (Unc).....	Seneca
Allen, R. W. (CS)*.....	Piedmont	Bell, W. M. (Unc).....	Greenville
Allgood, J. W. (CS).....	Liberty	Bellamy, W. R. (G).....	Loris
Allgood, N. R. (Unc).....	Pendleton	Bennett, J. E. (CS).....	Greer
Alsop, J. H. (CS).....	Jackson	Bennett, J. H. (CS).....	Cheraw
Alsop, T. F. (CS).....	Jackson	Bennett, R. M. (CS).....	Greer
Altman, J. D. (G).....	Anderson	Bentley, B. A. (CS).....	New Rochelle, N. Y.
Anderson, C. E. (Unc).....	Summerton	Berry, H. M. (CS).....	North Charleston
Andrews, E. G. (CS).....	Greenville	Bethea, T. J. (CS)*.....	Lake Charles A.F.B., La.
Anger, A. P. (Unc).....	Greenville	Biggers, D. L. (Unc).....	Pendleton
Anger, D. C. (Unc).....	Greenville	Biggers, W. F. (CS).....	Pendleton
Ankuta, A. E. (CS).....	Brooklyn, N. Y.	Bishop, C. E. (G).....	Honea Path
Areheart, H. W. (CS).....	West Columbia	Bishop, J. E. (CS).....	Spartanburg
Armstrong, F. (G).....	Seneca	Bishop, W. C. (CS).....	Inman
Armstrong, R. P. (G).....	Honea Path	Bivins, R. D. (G).....	Atlanta, Ga.
Arnette, J. D. (Unc).....	Clinton	Black, J. O. (CS).....	Easley
Ashley, E. W. (CS).....	Honea Path	Black, L. E. (CS).....	Concord, N. C.
Ashmore, R. C. (CS).....	Greenville	Black, M. P. (G).....	Orangeburg
Atkins, J. E. (CS).....	Marion, N. C.	Blackmon, J. M. (CS).....	Rock Hill
Atkinson, W. D. (CS).....	Lowrys	Blackmon, R. B. (CS).....	Clemson
Atkisson, R. D. (CS)*.....	West Palm Beach, Fla.	Blackwell, J. M. (CS).....	Inman
Austin, J. E. (CS).....	Greenville	Blackwell, M. L. (CS)*.....	Seneca
Avery, P. W. (CS).....	Newnan, Ga.	Blakely, W. M. (CS).....	Simpsonville
Bagwell, C. E. (CS).....	Easley	Blakeney, B. C. (CS).....	Pageland
Bagwell, J. B. (Unc).....	Clemson	Blanton, A. B. (CS).....	Forest City, N. C.
Bagwell, M. F. (G).....	Piedmont	Blanton, L. C. (CS).....	Tavares, Fla.
Bagwell, Marie W. (Unc).....	Piedmont	Bodendorf, E. F. (CS).....	Aiken
Bagwell, Mildred W. (Unc).....	Williamston	Boggs, J. F. (CS).....	Central
Bailes, W. J. (CS).....	Union	Bolt, J. A. (CS).....	Ware Shoals
Bailey, C. C. (G).....	Clemson	Bolt, M. L. (Unc).....	Seneca
Bailey, G. E. (CS).....	Salley	Bolt, M. W. (Unc).....	Anderson
Bailey, J. L. (CS).....	Woodruff	Bolton, R. S. (CS).....	Greenwood
Bailey, J. R. (CS).....	Lancaster	Bond, A. M. (G).....	Clemson
Baker, B. L. (CS).....	Aruba, N. W. I.	Bonds, N. G. (Unc).....	Calhoun Falls
Baker, J. M. (Unc).....	Anderson	Booker, F. R. (Unc).....	Clemson
Baker, L. O. (CS).....	Marietta	Boozar, C. H. (CS).....	Denmark
Ballenger, J. F. (Unc).....	Seneca	Borchert, D. F. (CS).....	Greenville
Banks, W. A. (G).....	Preston, Ga.	Bosnak, M. (Unc).....	Chicago, Ill.
Bannister, R. J. (CS).....	Anderson	Boudoucias, A. G. (CS).....	Greenville
Barbary, B. C. (CS).....	Taylors	Bouknight, R. W. (CS).....	Abbeville
Bard, W. R. (Unc).....	Anderson	Bourne, J. C. (CS).....	Greenwood

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Bowen, D. A. (CS)	Piedmont	Chastain, H. C. (Unc)	Central
Bowman, G. C. (CS)	Liberty	Chastain, R. C. (G)	Greer
Bradberry, R. C. (CS)	Athens, Ga.	Chewning, R. C. (CS)	Manning
Bradley, J. E. (CS)	Williston	Childress, W. C. (CS)	Pickens
Bradley, T. J. (CS)	Savannah, Ga.	Childs, J. B. (G)	Central
Braid, M. T. (CS)	North Charleston	Christenberry, A. K. (Unc)	Pendleton
Brantley, R. S. (CS)	Charleston	Christian, G. W. (CS)	McCormick
Braswell, M. P. (CS)	Clemson	Clary, W. T. (CS)	Fort Lawn
Breazeale, D. P. (G)	Westminster	Cleland, L. M. (Unc)	Seneca
Breazeale, L. P. (Unc)	Westminster	Clement, W. B. (CS)	Spartanburg
Bridges, B. K. (CS)	Greenville	Cleveland, B. G. (CS)	Anderson
Bridwell, J. W. (CS)	Woodruff	Clifford, G. D. (CS)	Leesburg, Ga.
Brinkley, J. E. (CS)	Asheville, N. C.	Clinkscales, H. S. (G)	Madison
Brisset, W. S. (Unc)	Seneca	Cochran, C. S. (Unc)	Seneca
Britt, W. A. (CS)	Orrum, N. C.	Cochran, D. J. (CS)	Charlotte, N. C.
Brittain, J. E. (CS)	Horse Shoe, N. C.	Cochran, J. D. (CS)	Greenville
Broadway, O. A. (CS)	Bishopville	Coggins, H. C. (CS)*	Spartanburg
Brock, A. E. (CS)	Bremen, Ga.	Coker, P. K. (Unc)	Central
Brooks, L. J. (CS)	Pendleton	Cole, S. R. (CS)	Clemson
Brooks, R. M. (CS)	Pendleton	Coleman, H. M. (G)	Anderson
Broome, V. J. E. (Unc)	Walhalla	Coleman, K. K. (CS)	Orlando, Fla.
Broughton, J. J. (CS)	Castleton, N. Y.	Coleman, L. D. (G)	Summerton
Brown, A. M. (Unc)	Norway	Coleman, T. L. (CS)	Saluda
Brown, E. L. (CS)	Columbia	Collins, D. J. (CS)	Greer
Brown, J. R. (CS)	Easley	Collins, E. S. (Unc)	Seneca
Browne, R. S. D. (CS)	Anderson	Collins, J. E. (Unc)	Pickens
Browning, V. S. (CS)	Spartanburg	Collins, V. B. (Unc)	Walhalla
Bryan, C. E. (Unc)	Central	Cook, C. F. (Unc)	Anderson
Bryant, E. M. (CS)	Greenville	Cook, E. H. (Unc)	Clemson
Bryant, O. F. (CS)	Greenwood	Cook, E. J. (Unc)	Clemson
Bryson, R. E. (CS)	Woodruff	Cook, J. M. (CS)	Norris
Buchanan, H. H. (CS)	Anderson	Cooper, J. R. (CS)	Clemson
Buckner, D. A. (CS)	Johns Island	Cooper, S. L. (CS)*	Clemson
Buffkin, R. M. (CS)	Heath Springs	Corbin, J. K. (G)	Franklin, N. C.
Burbage, R. W. (CS)	Charleston	Corder, W. O. (G)	Honea Path
Burden, C. A. (CS)*	Piedmont	Corvello, R. F. (CS)	Greenville
Burden, J. F. (CS)	Anderson	Couch, R. S. (Unc)	Williamston
Burden, W. S. (CS)	Piedmont	Covington, J. C. (CS)	Clio
Burdette, R. E. (CS)	Spartanburg	Covington, J. L. (CS)	Clio
Burgess, J. A. (Unc)	Summerton	Covington, N. J. (CS)	Charlotte, N. C.
Burnette, L. D. (CS)	Inman	Cox, A. G. (CS)	Raleigh, N. C.
Burris, D. M. (CS)	Liberty	Cox, A. J. (CS)	Loris
Burton, H. R. (CS)	Iva	Cox, G. H. (CS)	Spartanburg
Butler, C. E. (G)	Iva	Cox, M. E. (CS)	Greenwood
Buttes, C. E. (Unc)	Westminster	Cox, S. W. (CS)	Atlanta, Ga.
Butts, W. W. (G)	Walhalla	Cox, W. E. (CS)*	Marietta
Byars, R. J. (CS)	Gaffney	Craig, M. N. (Unc)	Pendleton
Bybee, R. T. (CS)	Greenville	Crawley, W. H. (CS)	Forest City, N. C.
Byers, E. W. (CS)	Greenville	Crenshaw, B. M. (CS)	Piedmont
Callaway, P. F. (CS)	Belleville, Ill.	Crews, J. F. (CS)	Hampton
Camak, T. M. (G)	Anderson	Crisp, W. R. (CS)	Anderson
Campbell, B. F. (CS)	Dillon	Cromer, M. G. (Unc)	Anderson
Campbell, E. W. (G)	Anderson	Cromer, W. L. (CS)	Sumter
Campbell, J. E. (CS)*	Newry	Cross, A. H. (CS)	Cross
Campbell, L. D. (CS)	Belton	Crowder, S. W. (Unc)	Lattimore, N. C.
Campbell, M. K. (G)	Anderson	Crowder, W. A. (CS)	Lattimore, N. C.
Cannon, B. C. (CS)	Clemson	Cureton, R. H. (CS)*	Clemson
Cannon, D. E. (CS)	Pickens	Dalton, B. W. (Unc)	Salem
Cannon, H. F. (G)	Anderson	Dantzler, W. D. (CS)	Holly Hill
Cannon, K. E. (CS)	Marion, N. C.	Davenport, J. A. (CS)	Piedmont
Cantley, M. P. (CS)	Kingstree	Davis, C. A. (CS)	Fairforest
Cantrell, G. W. (CS)	Liberty	Davis, C. H. (CS)	Walhalla
Capell, L. C. (CS)	Greenwood	Davis, R. R. (CS)	Roslyn Heights, N. Y.
Cappa, J. R. (CS)	Connellsville, Pa.	Day, W. J. (G)	North Charleston
Carpenter, W. E. (CS)	Graniteville	Dellastatious, P. S. (CS)	Silver Spring, Md.
Carroll, H. (G)	Anderson	Dendy, E. C. (Unc)	Richland
Carroll, J. A. (G)	Pendleton	Derrick, B. G. (CS)	Westminster
Carter, L. D. (CS)	Charleston	Derrick, L. C. (CS)	Little Mountain
Carter, W. R. (G)	Walterboro	DeSimone, R. L. (CS)	Avonmore, Pa.
Cate, N. H. (CS)	Brunswick, Ga.	Dibble, R. B. (CS)	Orangeburg
Cates, F. B. (G)	Wadmalaw Island	Doar, J. M. (CS)	Winter Park, Fla.
Catoe, E. F. (CS)*	Kershaw	Dorsey, W. F. (CS)	Newry
Cely, L. M. (Unc)	Easley	Dowdle, H. J. (CS)	Columbia
Cely, M. S. (CS)	Easley	Doyle, C. C. (Unc)	Seneca
Chamblee, A. D. (CS)	Anderson	Doyle, R. H. (CS)	Clemson
Chapman, L. B. (CS)	Easley	Drake, J. F. (CS)	Greenville
Chapman, W. F. (CS)	Pelzer	Drake, J. R. (Unc)	Anderson
Charles, G. H. (CS)	Daytona Beach, Fla.	Drake, K. R. (Unc)	Anderson

Name and Course	Address	Name and Course	Address
Driggers, L. B. (CS)	Sumter	Garrett, W. A. (CS)	Orangeburg
Drummond, M. L. (Unc)	Easley	Garrison, D. E. (CS)	Liberty
Dukes, W. E. (CS)	Honea Path	Garrison, J. E. (G)*	Seneca
Dunkelberg, D. S. (CS)	Clemson	Garrison, J. K. (CS)	Piedmont
Dunn, J. H. (CS)	Clemson	Gasque, E. R. (CS)	Edgefield
Dunn, J. W. (CS)	Columbia	Gasque, W. D. (CS)	Columbia
Dunn, R. J. (CS)	Coopersburg, Pa.	Gause, J. R. (CS)	Myrtle Beach
Dunn, W. J. (CS)	Sumter	Geiger, W. N. (CS)	Columbia
Durham, E. F. (CS)	Blackstock	Gentry, J. C. (G)	Anderson
Durham, J. C. (Unc)	Clemson	George, E. M. (CS)	Rock Hill
Durham, W. F. (CS)	Greenville	Gerald, E. L. (CS)	Loris
Eaddy, W. H. (G)	Hemingway	Gerrald, G. B. (G)	Clemson
Earle, E. B. (G)	Central	Gerrald, J. Q. (CS)	Conway
Earle, T. P. (CS)	Central	Gibson, F. A. (CS)	Easley
Edenfield, M. E. (CS)	Augusta, Ga.	Gibson, H. L. (CS)	Brevard, N. C.
Edens, O. V. R. (Unc)	Six Mile	Gibson, W. W. (CS)	Greenville
Edgeworth, R. W. (CS)	Clinton	Gilpin, D. W. (CS)	Connellsville, Pa.
Elgin, C. F. (CS)	Anderson	Glasgow, J. C. (CS)	Conway
Elliott, T. A. (G)	Walhalla	Glenn, G. R. (G)	Bluefield, Va.
Ellison, A. A. (CS)	Anderson	Glenn, T. R. (G)	St. Stephen
Elmore, D. S. (CS)	Gaffney	Goff, S. D. (CS)	Batesburg
Elrod, F. L. (CS)	Piedmont	Golden, H. S. (Unc)	Anderson
Elrod, L. C. (Unc)	Williamston	Gooding, R. W. (CS)*	Clemson
Elrod, T. W. (CS)	Anderson	Graham, H. A. (CS)	Toccoa, Ga.
Emanuel, W. Y. (CS)	Lancaster	Grant, L. S. (Unc)	Seneca
England, B. H. (G)	Westminster	Grant, T. D. (CS)	Clemson
Ennis, W. B. (CS)	Daytona Beach, Fla.	Gray, C. F. (Unc)	Burton
Erwin, H. S. (CS)	Abbeville	Green, H. B. (CS)	Columbia
Eurey, E. E. (Unc)	Estill	Green, J. B. (CS)*	Greenville
Evans, H. E. (CS)	Pendleton	Greene, E. H. (CS)	St. Stephen
Evans, N. H. (Unc)	Central	Greene, H. F. (CS)	Greenville
Evans, T. A. (CS)	Kenmore, N. Y.	Greene, J. M. (CS)	Greenville
Evatt, B. F. (CS)	Anderson	Greer, J. B. (CS)	Swansea, Mass.
Evatt, L. M. (Unc)	Central	Greer, J. E. (CS)	Greenville
Evvett, E. W. (Unc)	Central	Greer, L. R. (CS)	Anderson
Fain, C. C. (G)	Spartanburg	Greer, M. C. (CS)*	Swansea, Mass.
Fant, C. E. (CS)	Seneca	Gregory, F. M. (Unc)	Spartanburg
Farmer, T. J. (CS)	Burlington, N. J.	Gressette, F. R. (G)	St. Matthews
Faulkenberry, G. W. (CS)	Lancaster	Griffin, L. G. (Unc)	Walhalla
Feemster, T. R. (CS)	Gastonia, N. C.	Griffin, M. O. (CS)	Fort Mill
Fendley, R. L. (CS)	Six Mile	Griggs, L. A. (CS)	Hartsville
Few, D. L. (Unc)	Pickens	Grigsby, R. L. (G)	Saluda
Fields, L. B. (CS)	Central	Guest, V. H. (Unc)	Anderson
Fincher, G. L. (G)	Lynchburg	Guillocheau, R. A. (CS)—	
Findley, H. E. (Unc)	Anderson	Jackson Heights, L. I., N. Y.	
Findley, G. B. (G)	Easley	Guy, J. L. (CS)	Abbeville
Fiocchi, R. J. (CS)*	Vineland, N. J.	Guyton, L. E. (Unc)	Williamston
Fitzgibbons, R. L. (CS)	College Park, Ga.	Hagler, W. D. (CS)	Spartanburg
Fleming, J. D. (CS)	Pacolet	Hall, C. L. (CS)	Greenwood
Flowers, A. T. (CS)	Hartsville	Hall, R. K. (CS)	Greenwood
Floyd, J. E. (CS)	Tillman	Hall, R. Lee (CS)*	Liberty
Folger, M. Y. (CS)	Asheville, N. C.	Hall, R. Lester (CS)	Ninety Six
Font, G. P. (CS)	Santurce, P. R.	Hall, T. G. (CS)*	Highlands, N. C.
Fore, F. C. (Unc)	Greenwood	Hall, W. B. (CS)	Spartanburg
Forgett, V. J. (CS)	Teaneck, N. J.	Ham, R. F. (CS)	Florence
Foxworth, D. M. (CS)	Columbia	Hamby, J. M. (CS)	Simpsonville
Fraleigh, D. K. (CS)	Florence	Hamilton, F. P. (G)	Seneca
Franklow, M. L. (G)	Marietta	Hammond, R. H. (CS)	Greenwood
Freeman, J. P. (CS)*	Dacusville	Hamrick, T. C. (CS)	Cliffside, N. C.
Freeman, M. F. (Unc)	Gaffney	Hancock, S. W. (CS)	Ruby
Friar, B. R. (CS)	Florence	Hancock, W. E. (Unc)	Sumter
Fudge, D. M. (CS)*	Lyman	Hankinson, J. C. (CS)	McBean, Ga.
Fulbright, H. R. (CS)	Pendleton	Harbin, S. M. (Unc)	Westminster
Fuller, E. E. (CS)	Charlotte, N. C.	Harden, J. C. (CS)	Columbia
Fuller, W. C. (CS)	Greenville	Hardy, G. M. (G)	Augusta, Ga.
Fulmer, J. H. (G)	Seneca	Harkins, C. S. (CS)	Williamston
Gahr, J. F. (CS)	Anderson	Harley, W. S. (CS)	North Augusta
Gaillard, W. P. D. (Unc)	Williamston	Harman, L. M. (CS)	Cedar Grove, N. J.
Gainer, C. E. (G)	Georgetown	Harper, J. S. (CS)*	Lancaster
Galloway, R. (Unc)	Liberty	Harrell, A. L. (CS)	Florence
Gambrell, M. W. (Unc)	Anderson	Harris, M. T. (Unc)	Belton
Gambrell, O. W. (Unc)	Piedmont	Harrison, C. L. (CS)	Greenwood
Gambrell, S. H. (Unc)	Westminster	Harrison, J. D. (CS)	Greenwood
Gantt, J. M. (Unc)	McCormick	Harrison, J. R. (CS)	Abbeville
Garner, H. G. (CS)	Liberty	Harrison, P. P. (CS)	Decatur, Ga.
Garren, W. R. (CS)	Asheville, N. C.	Hart, J. W. (CS)	Chester
Garrett, B. V. (CS)*	Piedmont	Hartney, E. C. (CS)	Daytona Beach, Fla.
Garrett, F. B. (Unc)	Norris		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Haskell, R. (CS)	Beaufort	Jenkins, H. S. (G)	Wadmalaw Island
Hawes, R. L. (CS)	Utica, N. Y.	Jenkins, R. A. (CS)	Anderson
Hawkins, G. A. (CS)	Taylors	Jensen, R. A. (CS)	Tampa, Fla.
Haywood, M. K. (Unc)	Clemson	Johnson, A. C. (CS)	Marion
Head, J. O. (CS)	Liberty	Johnson, B. L. (CS)	Greenville
Hefner, J. R. (CS)	Hickory, N. C.	Johnson, E. C. (G)	Clemson
Heller, W. R. (CS)	Clemson	Johnson, F. D. (G)	York
Henderson, B. L. (Unc)	Pickens	Johnson, G. A. (CS)	Asheville, N. C.
Henderson, J. C. (CS)*	Greenville	Johnson, J. W. (G)	Easley
Henderson, R. P. (CS)	Charlotte, N. C.	Johnson, M. A. (Unc)*	Walhalla
Henderson, W. N. (CS)	Greenville	Johnson, M. H. (G)	Hemingway
Hendricks, R. C. (CS)	Belton	Johnson, M. J. (Unc)	Liberty
Hendricks, T. E. (CS)	Central	Johnson, R. G. (CS)	Nichols
Hendrix, F. H. (CS)	Leesville	Johnson, S. M. (G)	Clinton
Hendrix, W. B. (CS)	Prosperity	Johnson, W. G. (G)	Jonesville, N. C.
Henson, A. T. (CS)	Columbia	Johnson, W. L. (CS)	Charleston
Henson, J. G. (CS)	Forest City, N. C.	Johnston, G. E. (CS)	Estill
Hernon, J. E. (CS)	Fountain Inn	Johnston, T. E. (G)	Moncks Corner
Herron, A. K. (Unc)	Anderson	Jollie B. G. (Unc)	Williamston
Herron, R. H. (CS)	Starr	Jones, E. R. (Unc)	Central
Hicks, B. L. (CS)	Timmons	Jones, F. A. (CS)	Warsaw, N. C.
Hicks, W. R. (CS)*	Belton	Jones, Flossie R. (Unc)	Pickens
Higby, M. J. (CS)	Clemson	Jones, Frederick R. (Unc)	Greenville
High, M. S. (Unc)	Clemson	Jones, George W. (CS)	Lyman
Hill, H. L. (CS)	Toccoa, Ga.	Jones, Guy W. (G)	Pendleton
Hill, J. B. (Unc)	Easley	Jones, J. M. (CS)	South Bend, Ind.
Hill, L. S. (Unc)	Easley	Jones, O. V. (Unc)	Pickens
Hill, P. B. (Unc)	Clemson	Jones, R. K. (Unc)	Anderson
Hill, T. S. (CS)	Aiken	Jones, R. M. (CS)	Sumter
Hiller, J. W. (CS)	Greenville	Jones, R. P. (CS)	Kershaw
Hindman, C. E. (Unc)	Enoree	Jones, W. D. (CS)	Asheville, N. C.
Hinnant, S. E. (CS)	Andrews	Jones, W. E. (CS)	Durham, N. C.
Hodge, C. R. (CS)	Alcolu	Jones, W. M. (CS)	Honea Path
Hogner, R. P. (CS)	Clemson	Jordan, C. B. (CS)	St. George
Holden, B. A. (G)	Landrum	Jordan, L. M. (CS)	Union
Holden, E. M. (G)	Brevard, N. C.	Jordan, R. P. (CS)	Florence
Holladay, W. F. (CS)	Ft. Deposit, Ala.	Julian, L. A. (CS)	Easley
Holland, M. G. (Unc)	Pickens	Junkins, A. D. (CS)	Anderson
Holleman, M. E. (G)	Seneca	Justus, D. M. (CS)*	East Flat Rock, N. C.
Holley, B. H. (CS)	Graniteville	Kay, J. D. (CS)	Seneca
Holliday, B. C. (Unc)	Central	Kearse, R. E. (CS)*	Ehrhardt
Holliday, W. B. (CS)*	Central	Keasler, E. M. (Unc)	Fair Play
Holliday, W. F. (CS)	Piedmont	Keasler, R. L. (Unc)	Fair Play
Hollingsworth, H. G. (G)	Seneca	Keaton, N. N. (Unc)	Anderson
Holmes, J. S. (G)	Beaufort	Keller, W. A. (CS)	Cameron
Holmes, P. J. (CS)	Beaufort	Kelly, K. H. (CS)	Philadelphia, Pa.
Holt, J. H. (Unc)	Loris	Kelly, R. E. (CS)	Sumter
Holt, T. T. (CS)	Loris	Kelly, R. M. (Unc)	Anderson
Hood, B. M. (CS)	Matthews, N. C.	Kelly, S. P. (CS)	Central
Hoover, F. J. (CS)	Greenville	Kelly, T. P. (CS)*	Central
Howard, H. B. (CS)	Taylors	Kennedy, W. C. (CS)	Spartanburg
Howard, L. L. (Unc)	Seneca	Kernells, C. E. (CS)	Anderson
Hudson, W. G. (G)	Clemson	Kilpatrick, D. (CS)	Woodruff
Huey, R. B. (CS)	Cheraw	Kim, D. W. (CS)*	Seoul, Korea
Huff, J. R. (G)	Piedmont	Kimbrell, W. T. (CS)	Greenville
Huggins, E. M. (CS)	Dillon	King, C. E. (CS)	Simpsonville
Hughes, B. (CS)	Enoree	King, C. H. (CS)	Belton
Hughes, H. H. (CS)*	Charlottesville, Va.	King, D. J. (CS)*	Greenville
Hughes, J. K. (CS)*	Sumter	King, J. D. (CS)	Anderson
Hull, P. D. (G)	Conway	King, J. L. (CS)	Central
Humphries, J. L. (CS)	Sumter	King, J. R. (CS)	Westminster
Hunniutt, M. S. (Unc)	Pendleton	King, N. D. (CS)	Anderson
Hunt, R. B. (CS)	Taylors	King, N. P. (Unc)	Clemson
Hunter, C. P. (CS)	Pickens	Kinney, H. K. (CS)*	Newberry
Husky, E. P. (CS)*	Spartanburg	Kinsey, C. (CS)	Atlanta, Ga.
Hutchinson, T. E. (CS)	Rock Hill	Kirk, R. D. (CS)	Heath Springs
Hutton, G. A. (CS)*	Greer	Kizer, G. R. (CS)	St. George
Jackson, B. E. (CS)*	Clemson	Klinger, D. D. (Unc)	Greenville
Jackson, J. H. (CS)	Sumter	Koenig, H. (CS)	Inwood, N. Y.
Jackson, M. H. (CS)	Fairforest	Kowalski, F. O. (Unc)	Belton
Jackson, S. H. (CS)	Manning	Kowalski, P. R. (CS)	Anderson
Jackson, W. M. (CS)	Washington, D. C.	Kraft, G. A. (CS)	Greenville
Jameson, H. A. (CS)	Orangeburg	Kullman, B. J. (CS)	New Orleans, La.
Jameson, H. D. (CS)	Easley	Lambert, G. F. (CS)	Maryville, Tenn.
Jatz, N. P. (CS)	Easley	Lambeth, E. S. (CS)	Augusta, Ga.
Jeffcoat, H. H. (CS)	North	Lander, W. T. (G)	Williamston
Jefferies, J. R. (CS)	Myrtle Beach	Lane, R. P. (CS)	Marion
Jenkins, G. H. (CS)	Conway	Lanford, G. R. (CS)	Spartanburg

Name and Course	Address	Name and Course	Address
Lanford, H. L. (CS)	Woodruff	MacIntosh, E. (G)	Clemson
Langley, B. R. (CS)	Greenville	Mackey, R. R. (CS)	Anderson
Lanham, W. D. (CS)	Edgefield	MacMillan, D. N. (CS)	Edgewater, N. J.
Larisey, C. T. (CS)	Hampton	Madden, J. A. (CS)	Laurens
Latham, M. C. (CS)	North Augusta	Madden, W. L. (CS)	Laurens
Latham, M. F. (Unc)	Easley	Maddox, C. F. (CS)	Anderson
Lavell, M. J. (CS)	Brevard, N. C.	Mahaffney, C. R. (CS)	Spartanburg
Leamy, G. H. (CS)	New York, N. Y.	Mann, E. S. (Unc)	Pickens
Leatherwood, L. T. (Unc)	Fountain Inn	Marbert, J. B. (CS)	Greenwood
Ledford, J. (CS)	Ellijay, Ga.	Marcoux, B. P. (CS)	Lake Wales, Fla.
Lee, J. D. (CS)	Piedmont	Marett, H. S. (Unc)	Westminster
Lee, S. D. (G)	Anderson	Marion, C. G. (CS)	Eastover
Leggett, W. L. (CS)	Sumter	Marshall, G. N. (CS)	Sumter
Leonard, W. C. (CS)	Johnson City, Tenn.	Martin, F. G. (CS)	Westminster
Lesslie, J. W. (CS)	Rock Hill	Martin, F. W. (CS)	Bennettsville
Lessie, H. D. (CS)	Batesburg	Martin, J. P. (CS)	Williamston
Lewis, S. S. (CS)	Leesville	Martin, R. L. (CS)	West Union
Lewis, T. B. (CS)	Conway	Matheson, P. M. (Unc)	Long Creek
Lindell, B. S. (CS)	Wilmington, Del.	Mattos, T. M. (CS)	Greenville
Linder, C. A. L. (CS)	Smoaks	Maul, G. H. (CS)	Charleston
Lindler, C. M. (CS)	Blair	Mauldin, J. E. (G)	Anderson
Lindler, G. O. (CS)	Columbia	Mayfield, J. T. (CS)	Marietta
Lindsay, H. (CS)	Greenville	Mayfield, T. L. (CS)	Anderson
Lisenby, R. B. (CS)	Chesterfield	Meador, D. J. (CS)	Atlanta, Ga.
Litaker, R. M. (CS)	Leaksville, N. C.	Meador, N. D. (CS)	Atlanta, Ga.
Littlejohn, C. T. (CS)	Greenwood	Meetze, B. A. (CS)	Columbia
Littlejohn, T. W. (CS)	Ruffin, N. C.	Melton, B. R. (CS)	Lancaster
Liverett, H. R. (CS)	Hendersonville, N. C.	Menees, J. B. P. (Unc)	Anderson
Logue, D. H. (CS)	Cheraw	Middleton, B. J. G. (Unc)	Williamston
Lohman, R. O. (CS)	Hendersonville, N. C.	Middleton, H. W. (CS)	Sumter
Lomas, C. W. (Unc)	Pendleton	Middleton, M. W. (Unc)	Williamston
Long, J. P. (CS)	Greenwood	Milam, C. L. (CS)	Sandy Springs
Long, N. V. (CS)	Ossining, N. Y.	Miller, C. D. (CS)	Charleston
Long, T. N. (Unc)	Anderson	Miller, J. A. (CS)	Walhalla
Looper, M. G. (Unc)	Pickens	Miller, J. H. (CS)	Honea Path
Looper, W. R. (CS)	Pelzer	Miller, M. M. (G)	Anderson
Lott, J. E. (CS)	North Augusta	Miller, R. S. (CS)	Westminster
Love, W. W. (CS)	Rock Hill	Miller, S. M. (CS)	Andrews
Lowery, E. K. (CS)	Pageland	Mills, C. W. (CS)	Darlington
Lowery, K. S. (CS)	Kershaw	Mills, J. R. (CS)	Hopeville, Ga.
Lowry, C. (CS)	Pembroke, N. C.	Mitchell, A. S. (Unc)	Belton
Lowry, P. H. (Unc)	Clemson	Mitchell, R. D. (CS)	Belton
Lucas, C. D. (CS)	Atlanta, Ga.	Mixson, M. B. (CS)	Orangeburg
Lucas, S. L. (CS)	Hickory, N. C.	Mobley, J. R. (CS)	Lancaster
Luetjen, P. G. (CS)	Queens Village, N. Y.	Monroe, J. H. (CS)	Clemson
Luke, D. B. (CS)	North Augusta	Monts, D. D. (CS)	Prosperity
Lundy, W. G. (Unc)	Clemson	Moore, A. L. G. (Unc)	Anderson
Lynch, T. C. (Unc)	Seneca	Moore, E. M. (CS)	Pendleton
McBrain, J. L. (CS)	Port Washington, N. Y.	Moore, G. A. (CS)	Anderson
McCall, J. T. (CS)	Toxaway, N. C.	Moore, H. C. (CS)	Inman
McCallum, H. M. (G)	Fort Mill	Moore, R. L. (CS)	Charlotte, N. C.
McCarley, M. C. (Unc)	Honea Path	Moore, S. R. (CS)	Dalzell
McCarter, H. L. (CS)	Tryon, N. C.	Moore, W. L. (CS)	Pendleton
McCarte, M. W. (G)	Clover	Morgan, B. G. (CS)	Salisbury, N. C.
McClelland, R. A. (CS)	Spartanburg	Morgan, H. E. (G)	Clemson
McClure, J. W. (CS)	Anderson	Morgan, L. R. (Unc)	Central
McClure, R. E. (CS)	Anderson	Morgan, M. C. (CS)	Great Falls
McCormick, J. D. (G)	Loris	Morgan, R. W. (Unc)	Seneca
McCown, J. M. (CS)	Richland	Morris, F. W. (CS)	Detroit, Mich.
McCoy, H. H. (CS)	Greenville	Morris, M. E. (Unc)	Anderson
McCracken, J. W. (CS)	Columbia	Morrison, J. A. (CS)	Maplewood, N. J.
McCracken, S. M. (Unc)	Clemson	Morrison, J. E. (CS)	Iva
McCuen, B. H. (CS)	Greenville	Morrow, S. J. (CS)	Inman
McDaniel, G. W. (CS)	Greenville	Morton, C. W. (CS)	Beaufort
McDowell, L. A. (G)	Inman	Moseley, T. M. (CS)	Atlanta, Ga.
McElveen, C. P. (CS)	Sumter	Mosley, B. R. (Unc)	Greenville
McGarity, M. C. (CS)	Spartanburg	Moss, J. V. (CS)	Gaffney
McGee, W. L. (CS)	Starr	Mulkey, C. W. (CS)	Greenwood
McKeown, H. A. (CS)	Chester	Mullinax, W. A. (CS)	Port Walton Beach, Fla.
McKittrick, S. H. (CS)	Greenville	Mullinnix, W. E. (G)	Anderson
McLaurin, H. M. (CS)	Wedgfield	Mullins, J. A. (G)	Blackville
McLellan, H. C. (G)	Dillon	Munford, R. E. (CS)	Anderson
McMillan, C. (G)	Clemson	Munnerlyn, M. (CS)	Bennettsville
McTeer, A. D. (CS)	Edisto Island	Murphree, H. W. (CS)	Troy, Ala.
McWhorter, A. L. (Unc)	Greenville	Murphy, C. B. (CS)	Greenwood
McWhorter, R. W. (CS)	Liberty	Nalley, W. M. (CS)	Greenville
Maccione, J. A. (CS)	Greenville	Nasworthy, G. A. (CS)	Winter Park Fla.

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Nations, B. K. (Unc)	Central	Price, R. B. (CS)	Lexington
Nettles, E. W. (CS)	Sumter	Priester, W. L. (CS)	Bamberg
New, F. H. M. (CS)	Greenville	Proctor, E. R. (CS)*	Greenwood
Newman, W. H. (CS)	Charleston	Puryear, E. F. (CS)	Cheraw
Newton, A. F. (G)	Clemson	Putman, R. W. (CS)	Greenville
Newton, V. L. (G)	Central	Quattlebaum, R. S. (CS)	Chester
Nichols, J. L. (CS)*	Sumter	Queen, J. H. (CS)	Kings Mountain, N. C.
Nicholson, E. M. (Unc)	Salem	Quinones, J. U. (CS)	Santurce, P. R.
Nicholson, S. K. (Unc)	Abbeville	Rainey, T. B. (CS)	Anderson
Nicholson, W. M. (CS)	Salem	Rampey, F. D. (CS)	Piedmont
Nivens, D. M. (CS)	Spartanburg	Rampey, J. M. (CS)*	Central
Nolan, M. P. (G)	Marion	Ramsey, K. C. (Unc)	Williamston
Norris, G. F. (CS)	Taylors	Rast, B. M. (CS)	Cameron
Nunamaker, J. L. (CS)	Manning	Rast, W. J. (CS)	Greenville
Oates, H. G. (CS)	York	Ravan, J. W. (CS)*	Liberty
O'Cain, H. A. (CS)*	Orangeburg	Ravenel, H. J. (Unc)	Clemson
O'Cain, J. W. (CS)	Orangeburg	Ravenel, R. H. (CS)	Sanford, Fla.
Olson, L. G. (CS)*	Decatur, Ga.	Rawl, J. H. (CS)*	Spartanburg
Orr, L. S. (Unc)	Pendleton	Ray, V. D. (Unc)	Union
Ott, E. S. (Unc)	Clemson	Ready, G. L. (CS)	Graniteville
Outlaw, J. F. (CS)	Hartsville	Redfeam, J. H. (CS)	Wadesboro, N. C.
Owens, J. F. (G)	Pickens	Reed, A. J. (CS)	Whitmore
Owens, R. S. (CS)	Orangeburg	Reeves, R. P. (CS)	Ravenel
Owens, S. L. (CS)	Greenville	Rennerfeldt, D. D. (CS)	Anderson
Owens, W. M. (CS)*	Gibson, N. C.	Revis, R. G. (CS)	Pendleton
Pace, D. W. (CS)	Pickens	Rhame, W. A. (Unc)	Camden
Pace, H. D. (CS)*	Pickens	Rhem, C. F. (CS)*	Greer
Pace, L. F. (CS)	Pickens	Rhodes, M. B. (Unc)	Williamston
Paden, W. R. (CS)	Clemson	Rhodes, N. W. (Unc)	Easley
Padgett, A. L. (CS)	Aiken	Rice, E. A. (CS)	Charleston Heights
Padgett, J. W. (CS)	Trenton	Richards, D. S. (CS)	Charlotte, N. C.
Padgett, S. M. (G)	Walterboro	Richardson, J. L. (CS)	Fair Play
Palles, N. L. (CS)	Florence	Richardson, M. R. (G)	Pendleton
Palmer, E. D. (G)	Pickens	Richardson, N. L. (Unc)	Pendleton
Paradeses, S. D. (CS)	Columbia	Richey, C. G. (CS)	Ware Shoals
Parillo, J. A. (CS)	W. Catasauqua, Pa.	Richey, E. K. (Unc)	Central
Parker, J. E. (Unc)	Bethune	Richey, Wayne B. (CS)	Ware Shoals
Parker, L. M. (G)	Williamston	Richey, William B. (CS)	Greenville
Parker, R. B. (G)	Anderson	Riehle, L. H. (Unc)	Walhalla
Parker, R. R. (CS)*	Anderson	Riggins, W. H. (CS)	Greenville
Parker, W. M. (CS)	Spartanburg	Rivers, E. D. (CS)	Chesterfield
Parks, W. P. (CS)	McCormick	Rivers, M. E. (CS)	Hampton
Parrish, H. L. (CS)	Anderson	Roache, B. E. (G)	Pelzer
Parsons, H. S. (CS)*	Johnston	Robbins, F. L. (Unc)	Islip, N. Y.
Pate, C. T. (CS)	Bennettsville	Robbins, K. C. (CS)*	Islip, N. Y.
Pate, W. L. (CS)	Lamar	Robbins, R. S. (Unc)	Belton
Patterson, R. W. (CS)	Clemson	Roberts, B. L. (CS)	Chester
Patton, J. M. (CS)	Fountain Inn	Roberts, J. R. (CS)	Greenville
Patton, R. H. (Unc)	Anderson	Roberts, J. W. (CS)	Greenville
Peck, P. E. (CS)	Vero Beach, Fla.	Robertson, J. E. G. (Unc)—	North Miami Beach, Fla.
Pendleton, R. G. (CS)	Chevy Chase, Md.	Robinson, J. D. (CS)	Enka, N. C.
Pepper, A. C. (Unc)	Easley	Rodgers, J. H. (G)	Hemingway
Perez, O. (CS)	New York, N. Y.	Rogers, C. R. (CS)	Mullins
Perry, D. C. (Unc)	Seneca	Rogers, J. C. (CS)	Pelzer
Perry, S. L. (G)	Seneca	Rogers, J. K. (CS)	Liberty
Pettit, R. H. (Unc)	Florence	Rogers, R. K. (CS)*	Mullins
Pettus, J. L. (CS)	Clover	Rogers, T. N. (CS)	Fork
Phillips, B. K. (CS)	Gaffney	Rogers, V. A. (CS)	Abbeville
Phillips, E. S. (CS)	Harrisonburg, Va.	Rogers, W. K. (CS)	Walhalla
Phillips, R. L. (CS)	Anderson	Rohdenburg, C. H. (CS)	Iva
Phillips, T. B. (CS)	Taylors	Roper, M. O. P. (Unc)	Six Mile
Philp, R. H. (Unc)	Rabun Gap, Ga.	Roper, S. A. C. (Unc)	Easley
Pickens, H. A. (CS)	Anderson	Ross, L. C. (CS)	Charlotte, N. C.
Pike, L. (CS)*	Greer	Rostron, J. P. (G)	Clemson
Pittman, J. F. (G)	Seneca	Rountree, J. W. (CS)	Augusta, Ga.
Pitts, J. D. (CS)	Rock Hill	Rowe, C. B. (CS)	Enterprise, Ala.
Pitts, W. M. (CS)*	Laurens	Rowell, E. R. (CS)	Trio
Platt, B. A. (CS)	Ocean Drive	Royall, E. M. (CS)	Mt. Pleasant
Player, D. W. (CS)	Elliott	Rozendale, D. (CS)—	Lookout Mountain, Tenn.
Plyler, B. B. (CS)*	Lancaster	Rubenstein, R. D. (CS)—	Hendersonville, N. C.
Poore, T. C. (CS)	Williamston	Rudolph, F. E. (CS)	Savannah, Ga.
Powell, S. B. (CS)	Kingstree	Runge, L. T. (CS)	Greenville
Powers, W. O. (CS)	Timmons ville	Rush, L. (Unc)	Summerville
Preshler, J. R. (CS)	Anderson	Rush, T. L. (Unc)	Clemson
Pressley, W. B. (CS)	Biltmore, N. C.	Rush, W. A. (CS)	Greenwood
Prevost, W. F. (Unc)	Anderson		
Price, C. D. (CS)	Greenville		
Price, M. D. (G)	Seneca		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Rush, W. G. (CS)	Union	Stanaland, J. D. (CS)	Ash, N. C.
Russell, J. S. (CS)	Spartanburg	Stanley, J. D. (CS)	Clemson
Rutz, A. E. (CS)	Camaguey, Cuba	Stanley, R. L. (CS)	Varnville
Ryals, J. B. (Unc)	Pickens	Starkey, L. V. (CS)	Clemson
Rye, A. B. (CS)	Columbia	Starr, J. S. (CS)*	Lancaster
Ryttenberg, H. J. (CS)	Sumter	Steed, J. A. (CS)	Anderson
Salmond, W. C. (CS)	Camden	Steele, H. M. R. (Unc)	Six Mile
Sams, M. W. (CS)	Walterboro	Steele, R. H. (CS)	Harrisonburg, Va.
Sanders, C. T. (CS)	Richburg	Stegall, E. M. S. (Unc)	Anderson
Sanders, D. E. B. (CS)	Spartanburg	Stephens, J. H. (CS)	Rock Hill
Sanders, M. (Unc)	Central	Stevens, F. W. (CS)	Charleston
Sanders, W. J. (CS)	Anderson	Stevens, H. E. (G)	Conway
Sandifer, R. L. (CS)	Florence	Stevens, J. H. (CS)*	Greenwood
Satterfield, D. E. (CS)	Lyman	Stevenson, E. P. (Unc)	Clemson
Satterfield, D. G. (CS)	Lyman	Stevenson, J. H. (CS)*	Warwick, R. I.
Satterfield, T. G. (Unc)	Six Mile	Stevenson, L. M. (G)	Clemson
Saylor, J. H. (CS)	Easley	Stewart, E. P. (G)	Liberty
Scarborough, J. C. (CS)	Lykesland	Stewart, M. (Unc)	Clemson
Schladensky, G. F. (CS)—	Huntingdon Valley, Pa.	Stewart, M. E. (Unc)	Central
Scott, L. T. (Unc)	Pendleton	Stewart, R. J. (CS)	Humboldt, Tenn.
Seaborn, G. W. (G)	McColl	Still, D. B. (CS)	Blackville
Segars, C. A. (CS)	Oswego	Still, J. E. (CS)	North Augusta
Sentell, J. H. (CS)	Greenville	Stokes, F. M. (CS)	Greer
Shands, E. B. (CS)	Spartanburg	Stokes, P. W. (CS)	Charleston
Sharp, M. E. (G)	Anderson	Stone, W. J. (CS)	Anderson
Sharp, W. K. (CS)	Anderson	Stoudemayer, C. M. (Unc)	Saluda
Shealy, L. L. (CS)	Summerville	Stoudenmire, W. J. (G)	Orangeburg
Shealy, W. W. (CS)	Columbia	Strange, C. N. (CS)	Taylors
Sheridan, L. L. (CS)	Anderson	Strange, H. W. (CS)	Columbia
Sherrill, J. N. (CS)	Spindale, N. C.	Stribling, H. D. (CS)	Clemson
Shore, P. C. (CS)	Baldwin, Ga.	Stuart, B. W. (CS)	Hamer
Shuler, R. B. (CS)*	Elloree	Sturgis, W. B. (CS)	Rock Hill
Sifford, P. P. (CS)*	Stanley, N. C.	Suber, C. (CS)	Anderson
Simmons, C. E. (CS)	Pickens	Suber, R. D. (CS)	Orangeburg
Simmons, I. M. A. (Unc)	Pickens	Sudduth, D. A. (Unc)	Lyman
Sims, R. C. (CS)	Spartanburg	Sullivan, D. G. (CS)	Spartanburg
Sims, R. K. (Unc)	Union	Summers, J. W. (CS)	Orangeburg
Sinclair, J. C. (CS)	Camden	Sutton, M. R. (CS)*	Lancaster
Singleton, J. J. (G)	Abbeville	Swygert, J. K. (CS)	Ballentine
Singleton, J. L. (CS)*	Pendleton	Swygert, R. H. (CS)	Iva
Sipe, F. D. (CS)	Hodges	Talley, J. O. (CS)	Greenville
Sistare, J. D. (CS)	Lancaster	Talley, S. C. (Unc)	Seneca
Skelton, S. J. (Unc)	Seneca	Tanner, R. D. (CS)	Easley
Skelton, T. E. (G)	Clemson	Tannery, D. E. (CS)	Ft. Riley, Kan.
Skoive, M. J. (CS)	Clemson	Tarpley, W. A. (G)	Norwood, Ga.
Sligh, R. C. (CS)	Greenwood	Tarte, P. E. (CS)	Abbeville
Sloan, J. A. (CS)	Clemson	Tate, A. G. (Unc)	Norris
Smalley, R. L. (CS)*	Gaffney	Tate, G. T. (CS)	Taylors
Smith, A. C. (G)	Pickens	Taylor, D. T. (CS)	Florence
Smith, A. G. (CS)	Greenville	Taylor, G. R. (CS)	Erwin, Tenn.
Smith, F. L. (CS)*	North Charleston	Taylor, J. A. (CS)	Greenville
Smith, G. O. (G)	Conway	Taylor, J. S. (CS)	Arlington, Va.
Smith, J. D. (CS)	Liberty	Taylor, W. H. (CS)	Camden
Smith, J. K. (CS)	Chickamauga, Ga.	Terry, J. P. (CS)	Hartsville
Smith, J. W. (CS)	Bishopville	Thackston, T. A. (CS)	Charlotte, N. C.
Smith, L. C. (CS)	Greenwood	Thomas, J. H. (CS)	West Columbia
Smith, M. L. S. (Unc)	Walhalla	Thomas, J. W. (CS)	Lake City
Smith, N. B. (Unc)	Anderson	Thomas, L. W. (CS)	Spartanburg
Smith, R. A. (CS)*	Springfield	Thomas, W. H. (G)	Greenville
Smith, S. H. (Unc)	Central	Thomas, W. L. (CS)	Layton, Pa.
Smith, W. B. (G)	Cades	Thompson, A. G. (CS)	Columbia
Smoak, A. H. (CS)*	Branchville	Thompson, T. A. (CS)	Kingstree
Smoak, A. L. (G)	Smoaks	Tice, J. D. (CS)	Anderson
Smoak, H. G. (CS)	Pacolet	Tilley, D. U. (G)*	Greenville
Smoak, J. A. (CS)	Yonges Island	Timmerman, J. A. (CS)	Pelzer
Snapp, O. I. (CS)	Ft. Valley, Ga.	Tinsley, H. D. (CS)	Hodges
Snider, J. L. (CS)	Anderson	Tisdale, J. W. (CS)	Mayesville
Snipes, H. J. (CS)	Easley	Todd, B. (G)	Saluda
Snipes, L. C. (CS)*	Clemson	Tomlin, R. B. (CS)	Walhalla
Snoddy, J. W. (CS)	Greenwood	Tomlinson, N. J. (CS)	Lynchburg
Spanenberg, R. B. (Unc)	Clemson	Torrence, R. M. (CS)	Rock Hill
Spearman, C. J. (Unc)	Seneca	Towell, R. D. (CS)	Spartanburg
Spivey, H. R. (CS)*	Conley, Ga.	Townsend, J. A. (CS)	Bennettsville
Sprawls, P. (CS)	Williston	Townsend, L. P. (Unc)	Anderson
Springer, R. W. (CS)	Seneca	Trado, W. E. (CS)	Henderson, N. C.
Sprouse, B. J. (CS)	Slater	Tragus, E. T. (CS)	Allentown, Pa.
Squires, J. D. (CS)	Aynor	Trammell, F. M. (CS)	Greenville
		Traxler, D. G. (Unc)	Greenville

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Tripp, O. M. P. (Unc)	Easley	Wiggins, J. E. (CS)	Arlington, Va.
Tucker, M. L. (G)	Williamston	Wigington, E. E. (CS)	Walhalla
Tumbleston, I. W. (CS)	Yonges Island	Wigington, M. B. (Unc)	Salem
Turbeville, H. W. (CS)*	Camden	Wilbanks, O. W. (Unc)	Mt. Rest
Turner, B. N. (Unc)	Pickens	Wilder, B. E. (CS)	Spartanburg
Turner, M. H. (Unc)	Piedmont	Wilkes, G. C. (CS)	Clinton
Turner, R. A. (CS)	Blacksburg	Wilkes, W. L. (CS)	Columbia
Turner, S. F. (Unc)	Pickens	Wilkie, J. E. (CS)	Gastonia, N. C.
Tuten, J. M. (CS)	Greenville	Willard, R. O. (CS)	Asheboro, N. C.
Tyler, H. O. (G)	Allendale	Williams, H. S. (CS)	Greenville
Uldrick, J. M. (G)	Clemson	Williams, J. W. (Unc)	Easley
Underwood, H. J. (Unc)	Tamassee	Williams, R. F. (CS)*	Sumter
Vance, C. E. (CS)	Greenville	Williams, R. O. (CS)*	Seneca
Vannice, C. W. (CS)	Georgetown	Williamson, E. B. (Unc)	Memphis, Tenn.
Van Ravestein, J. H. (CS)	Piedmont	Williford, R. B. (Unc)	Anderson
Vassey, F. M. W. (Unc)	Pickens	Wills, F. D. (CS)	Monetta
Verdin, J. W. (CS)	Greenville	Wilson, D. B. (CS)	Spartanburg
Verdin, M. L. (Unc)	Greenville	Wilson, F. R. (CS)*	Spartanburg
Vinson, S. C. (G)	Greenville	Wilson, J. C. (CS)	Central
Vissage, A. E. (Unc)	Walhalla	Wilson, L. G. (Unc)	Williamston
Voight, W. B. (CS)	Summerville	Wilson, M. E. (G)	Abbeville
Waddell, H. F. (Unc)	Laurens	Wilson, R. F. (CS)	Pendleton
Walker, D. E. (CS)*	Winston-Salem, N. C.	Wilson, S. E. (Unc)	Pendleton
Walker, W. E. (CS)	Rock Hill	Wilson, W. N. (CS)	Anderson
Wall, B. C. (CS)	North Augusta	Winchester, D. H. (CS)*	Greenville
Wall, M. S. (Unc)	Seneca	Winchester, F. G. (Unc)	Pickens
Warner, J. R. (CS)	Charleston Heights	Winchester, I. B. (Unc)	Pickens
Warren, W. R. (CS)	Spartanburg	Winchester, J. D. (CS)	Pickens
Washington, C. E. (CS)	Honea Path	Winchester, S. K. (Unc)	Central
Washington, J. M. (CS)	Honea Path	Winchester, S. W. (CS)	Fort Mill
Washington, M. E. (Unc)	Clemson	Wingate, E. K. (CS)	Charleston
Wasson, W. N. (CS)	Laurens	Wise, T. H. (CS)	Greenville
Waters, J. R. (CS)	Beaufort	Witherspoon, A. B. (Unc)	Anderson
Watson, B. G. (CS)	Spartanburg	Witherspoon, D. M. (CS)	Elloree
Watson, J. K. (CS)	Batesburg	Witherspoon, F. (Unc)	Clemson
Watson, Z. S. (CS)	Marion	Wofford, E. L. (CS)	Gainesville, Ga.
Watt, J. R. (CS)	Pickens	Wolff, P. W. (CS)	Anderson
Weathers, A. A. (Unc)	Walhalla	Wood, G. E. (Unc)	Williamston
Webster, C. (CS)	Blenheim	Wood, J. L. (CS)	Williamston
Webster, R. E. (Unc)	Charleston	Woodall, C. E. (CS)	Marietta
Webborn, A. B. (Unc)	Pendleton	Woods, B. D. (CS)*	Easley
Welborn, B. L. (Unc)	Pickens	Woods, T. R. (CS)	Jacksonville, Fla.
Welborn, N. P. (CS)*	Liberty	Worthy, B. H. (CS)	Greenville
Welch, M. O. (CS)	Ehrhardt	Wright, F. S. (CS)*	Grover, N. C.
Welsh, J. R. (Unc)	Anderson	Wright, J. W. (CS)	Johnston
Wertz, P. A. (CS)	Pendleton	Wyatt, B. (Unc)	Easley
Wessinger, W. Y. (CS)	Leesville	Wyse, J. F. (G)	Johnston
Westbrook, B. G. (CS)	Campobello	Yarborough, W. T. (CS)	Walhalla
Wheless, F. H. (CS)	Timmons ville	Yeary, R. C. (CS)	Nicholasville, Ky.
White, J. R. (CS)	Seneca	Yike, R. M. (CS)	Charlotte, N. C.
White, K. B. (CS)	Pacolet	Young, R. W. (CS)	Rock Hill
Whitehead, B. J. (CS)	Great Falls	Zimmerman, C. G. (CS)	Florence
Whitfield, L. L. (CS)	Anderson		

LIST OF STUDENTS, FIRST SEMESTER, 1955-1956

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 abbreviations following the numerals refer to the student's major course: A—Agriculture (unclassified as to major course), Ag Ec—Agricultural Economics, Agron—Agronomy, AH—Animal Husbandry, Bot—Botany, Dairy—Dairy, Ent—Entomology, Hort—Horticulture, Poul—Poultry, Ag En—Agricultural Engineering, Pre-For—Pre-Forestry, Pre-Vet—Pre-Veterinary, A&S—Arts and Sciences, Ind Mgt—Industrial Management, Ind Phys—Industrial Physics, Pre-Med—Pre-Medicine, Ag Ch—Agricultural Chemistry, Chem—Chemistry, Ed—Education, Ind Ed—Industrial Education, VAE—Vocational Agricultural Education, E—Engineering (unclassified as to major course, but the abbreviation following the "E" indicates a preliminary choice of major course, Arch—Architecture, Ar En—Architectural Engineering, Cr En—Ceramic Engineering, Ch En—Chemical Engineering, CE—Civil Engineering, EE—Electrical Engineering, ME—Mechanical Engineering, TC—Textile Chemistry, TE—Textile Engineering, TM—Textile Manufacturing.

New students admitted in September, 1955, are indicated by an asterisk (*); part-time students by two asterisks (**).

Name and Course	Address	Name and Course	Address
Abbott, C. A. (2 Pre-Med)	Seneca	Anderson, C. L. (1 A-AH)	Timmonsville
Abbott, G. E. (4 CE)	Monroe, Mich.	Anderson, F. C. (4 A&S)	Clemson
Abbott, G. R. (1 E-ME)	Canton, N. C.	Anderson, H. M. (2 Pre-Vet)	Timmonsville
Abbott, J. R. (3 ME)	Walhalla	Anderson, J. E. (1 E-CE)*	Clinton
Abercrombie, B. R. (1 E-AgEn)*	Fountain Inn	Anderson, J. M. (4 Chem)	Andrews
Abercrombie, R. E. (3 EE)	Gray Court	Anderson, M. H. (3 AgEc)	Wampee
Abercrombie, W. G. (4 AgEn)	Fountain Inn	Anderson, P. P. (2 TE)	Tamassee
Able, R. L. (4 AH)	Saluda	Anderson, P. S. (2 A&S)	Timmonsville
Ables, J. R. (3 AH)	Liberty	Anderson, R. K. (2 A-AgEc)	Timmonsville
Ackerman, L. M. (1 E-EE)	Saluda	Anderson, T. C. (1 E-CE)*	Greenwood
Ackerman, T. M. (3 AgEn)	Cottageville	Anderson, W. A. (3 A&S)	Greenville
Adamek, R. J. (1 Arch)	Byram, Conn.	Anderson, W. B. (2 CrEn)	Lowrys
Adams, G. S. (1 Pre-For)*	Spartanburg	Anderson, W. S. (1 E-EE)*	Johns Island
Adams, L. B. (1 E-CE)*	Greenwood	Andrews, E. G. (2 CE)	Greenville
Adams, L. H. (2 EE)	Honea Path	Ankuta, A. E. (2 IndEd)	Brooklyn, N. Y.
Addabbo, D. J. (3 ArEn)	Malba, N. Y.	Anthony, D. B. (4 Poul)	Travelers Rest
Addison, H. F. (4 TM)	Eastanollee, Ga.	Arbery, W. C. (3 Arch)	Garnett
Addison, R. L. (4 AgEc)	Cottageville	Archie, W. L. (3 TM)	Fort Mill
Agnew, R. L. (2 A&S)	Hagood	Ard, J. F. (2 A-AH)	Hemingway
Agro, L. (PG ME)	White Plains, N. Y.	Ardis, C. R. (1 E-EE)*	Pacolet
Aiken, L. C. (2 ME)	Pickens	Arms, T. O. (3 ChEn)	Greer
Aiken, R. H. (3 ArEn)	Greenville	Armstrong, D. F. (1 A-AH)*	Fountain Inn
Alewine, I. D. (4 TM)	Anderson	Armstrong, E. S. (1 E-CE)*	Fort Mill
Alewine, W. C. (1 E-ME)*	Anderson	Armstrong, J. V. (1 E-EE)	Fountain Inn
Alewine, W. M. (1 E)*	Taylor	Armstrong, W. M. (1 IndMgt)*	Gray Court
Alexander, J. G. (4 AH)	Fairforest	Arnold, B. J. (4 EE)	Laurens
Alexander, T. C. (3 A&S)	Anderson	Arnold, C. H. (1 E-CE)*	Greenville
Alford, J. L. (1 Pre-Med)	Dillon	Ashcraft, J. W. (2 TM)	Abbeville
Alford, W. E. (3 TC)	Anderson	Ashe, J. B. (1 E-ME)*	Rock Hill
Alford, W. L. (4 Ind Phys)	Walterboro	Ashley, B. (3 CE)	Ware Shoals
All, L. D. (2 Chem)	Savannah, Ga.	Ashley, C. L. (1 IndMgt)	Greenwood
Allaire, D. R. (4 TM)	Belleville, N. J.	Ashmore, R. A. (2 CE)	Greenville
Allen, A. C. (4 TM)	Wadesboro, N. C.	Atkins, B. R. (3 ME)	Easley
Allen, C. C. (2 Pre-Med)	Moncks Corner	Atkins, J. E. (2 TE)	Marion, N. C.
Allen, J. L. (1 E-CE)*	West Union	Atkinson, J. B. (3 VAE)	Marion
Allen, R. W. (1 IndEd)	Piedmont	Atkinson, W. J. (3 Arch)	Rock Hill
Alley, J. H. (1 Chem)	Spartanburg	Atkisson, R. D. (2 ME)	West Palm Beach, Fla.
Aligood, J. W. (2 Pre-Med)	Liberty	Ausbund, J. C. (1 ChEn)*	Conway
Allison, B. S. (1 E-ME)*	Albany, Ga.	Austell, C. C. (1 E-ME)	Gaffney
Allred, W. J. (2 TC)	Belton	Austin, B. C. (2 Ed)	Greenville
Alsbrooks, G. F. (4 ArEn)	Sumter	Austin, J. E. (1 IndMgt)	Greenville
Altman, J. R. (2 ME)	Galivants Ferry	Austin, J. W. (2 ChEn)	Simpsonville
Ampacher, J. F. (1 Pre-Med)*	Greenville	Austin, W. R. (1 E-ME)*	Simpsonville
Anderson, B. W. (1 E-AgEn)*	Timmonsville	Avant, J. E. (1 A-AH)*	Walterboro
Anderson, C. E. (2 ME)*	Summerton	Avery, P. W. (4 Ed)**	Newnan, Ga.

Name and Course	Address	Name and Course	Address
Axmann, R. F. (1 E-EE)°	Anderson	Beaty, J. D. (1 TC)°	Newberry
Ayer, G. E. (2 VAE)	Fairfax	Beauchamp, R. L. (1 Ed)°	—
Ayers, J. L. (2 CE)	Piedmont		Piercefild, N. Y.
Babb, J. P. (2 CrEn)	Fountain Inn	Beachtler, A. N. (1 ChEn)°	Rock Hill
Baeten, G. J. (1 E)°	West DePere, Wisc.	Beckley, C. M. (1 A&S)°	Jacksonville, Fla.
Bagwell, A. B. (1 E-EE)°	Greenwood	Beckum, J. T. (1 E-ME)	North Charleston
Bagwell, B. J. (1 IndMgt)°	Easley	Beckworth, H. (1 Pre-Med)°	Sumter
Bagwell, C. E. (1 IndMgt)	Easley	Becorest, V. H. (1 ChEn)°	—
Bagwell, C. F. (2 TM)	Easley		McComas, W. Va.
Bagwell, L. D. (1 E-CE)°	Easley	Bedenbaugh, H. O. (2 VAE)	Leesville
Baiden, H. G. (1 E-CE)°	Conway	Bedenbaugh, J. R. (1 E-ME)°	Laurens
Bailes, J. K. (1 E-AgEn)°	Union	Beeren, F. W. (2 TM)	Clover
Bailes, W. J. (4 Dairy)	Union	Begemann, C. W. (1 E)°	Charleston
Bailey, C. C. (G Zool)	Clemson	Begley, J. F. (1 E-EE)	Norris
Bailey, G. E. (2 ME)	Salley	Belgard, A. J. (1 E-EE)	Evanston, Ill.
Bailey, H. C. (1 E-ME)°	N. Augusta	Belk, C. B. (1 TC)°	Rock Hill
Bailey, J. R. (3 AgEn)	Lancaster	Bell, C. D. (4 CrEn)	Savannah, Ga.
Bailey, J. T. (1 ChEn)°	Clemson	Bell, C. R. (4 Pre-Med)	Lamar
Bailey, R. E. (1 ChEn)°	Lyman	Bell, D. P. (1 A-AH)	Springfield
Bailey, R. L. (1 E-ME)°	Barnwell	Bell, J. L. (1 VAE)	Conway
Baker, B. L. (3 AgEc)	Aruba, N. W. I.	Bellamy, W. R. (G Dairy)	Loris
Baker, E. R. (1 Chem)°	Brevard, N. C.	Bennett, C. M. (1 A-Dairy)°	Gibson, N. C.
Baker, J. C. (1 E-EE)	Cades	Bennett, J. H. (2 ArEn)	Cheraw
Baker, L. O. (2 A-AH)	Marietta	Bennett, J. N. (1 Pre-Med)°	Walterboro
Baker, W. A. (2 EE)	Timmons ville	Bennett, R. M. (3 CE)	Greer
Baldwin, C. E. (1 Pre-Med)	Simpsonville	Bennett, R. T. (2 VAE)	Arcadia
Baldwin, C. O. (2 VAE)	—	Bennett, W. B. (3 TC)	Anderson
	Hendersonville, N. C.	Bennett, W. N. (2 A&S)	Bennettsville
Ballenger, I. E. (3 TC)	Inman	Bentley, B. A. (2 ChEn)°	—
Ballaw, J. F. (1 Ed)	Tryon, N. C.		New Rochelle, N. Y.
Banister, R. F. (3 TC)	Anderson	Benz, D. J. (1 IndMgt)°	Kenmore, N. Y.
Banks, G. L. (1 E-EE)°	—	Bergman, D. W. (2 CE)	Savannah, Ga.
	Pisgah Forest, N. C.	Berkham, F. E. (1 CrEn)	Atlanta, Ga.
Bannister, R. J. (1 TM)	Anderson	Berly, R. H. (G Agron)°	Lexington
Banton, M. B. (1 A-Agron)°	—	Berry, H. M. (1 IndEd)	North Charleston
	Gastonia, N. C.	Berry, P. H. (3 VAE)	Saluda
Barbary, B. C. (1 IndMgt)	Taylors	Berry, R. R. (1 E-EE)°	Union
Bare, C. C. (3 EE)	Starr	Berry, T. C. (3 EE)	Charlotte, N. C.
Barker, R. H. (1 TC)°	Washington, D. C.	Berry, W. E. (1 E-ME)°	Greenville
Barksdale, W. H. (4 VAE)	Gray Court	Besson, B. C. (2 ME)	North Augusta
Barnes, D. M. (G Chem)°	Anderson	Best, R. L. (4 ME)	Ulmers
Barnes, G. R. (3 ChEn)	Camden	Bethea, T. J. (1 E-EE)°	—
Barnes, L. S. (3 ME)	Greenville		Lake Charles AFB, La.
Barnes, W. C. (1 E-EE)	Piedmont	Betsill, W. L. (2 Pre-Med)	Arlington, Va.
Barnett, W. T. (2 TM)	Taylors	Biggers, W. F. (1 ChEn)	Pendleton
Barnette, D. R. (2 VAE)	Inman	Bilton, R. L. (G Chem)°	Charleston
Barnette, V. T. (G Chem)°	Greenville	Binnicker, W. F. (2 A-AH)	Norway
Barock, J. E. (1 Chem)	Rock Hill	Bishop, B. L. (4 Ed)	Union
Barron, C. H. (1 ChEn)°	Seneca	Bishop, C. E. (2 A-AH)	Inman
Barron, C. T. (1 A&S)°	Rock Hill	Bishop, E. R. (3 EE)	York
Barrow, R. A. (4 A&S)	North Augusta	Bishop, H. S. (1 A-Hort)	Beaufort
Barton, E. S. (2 TM)	Greenville	Bishop, J. E. (4 TM)	Spartanburg
Barton, H. P. (1 TM)	Pendleton	Bishop, J. G. (1 E)°	Travelers Rest
Barton, J. E. (3 CrEn)	Taylors	Bishop, O. R. (3 AgCh)	Beaufort
Basha, R. T. (2 ME)	Mt. Pleasant	Bishop, R. J. (2 EE)	Savannah, Ga.
Bashor, M. W. (1 Arch)°	Conway	Bishop, W. C. (3 TM)	Inman
Baskin, W. T. (1 Chem)°	Rock Hill	Bivins, R. L. (G AH)	Atlanta, Ga.
Bates, B. O. (2 A-Agron)	Williston	Black, B. J. (1 ChEn)°	Greenville
Bates, D. R. (1 E-EE)°	Huger	Black, C. A. (1 E-EE)°	Gaffney
Bates, J. J. (3 Agron)	Williston	Black, D. H. (1 E-CE)°	Greer
Bates, M. R. (4 AH)	Neeses	Black, J. O. (3 VAE)	Easley
Batson, C. L. (3 ME)	Pickens	Black, L. E. (2 IndEd)	Concord, N. C.
Batson, H. W. (1 E-ME)	Travelers Rest	Black, R. E. (2 TM)	Hartsville
Batten, B. G. (1 A-AgEc)	Wedgfield	Black, R. S. (3 A&S)	Concord, N. C.
Batton, R. E. (1 E-ME)°	—	Blackmon, F. A. (1 ChEn)°	Charleston
	Charleston Heights	Blackmon, J. M. (4 ME)	Rock Hill
Bauknight, I. M. (2 A-AH)	Florence	Blackston, C. R. (3 EE)	Piedmont
Baumgardner, R. A. (2 A)	Taylors	Blackwelder, M. W. (4 TM)	Fort Mill
Baynard, P. W. (2 EE)	Charleston	Blackwell, J. B. (2 TM)	Inman
Bazemore, P. E. (2 Arch)	Winnboro	Blackwell, J. M. (2 A-Hort)	Inman
Beach, D. W. (1 VAE)°	Walterboro	Blackwell, M. L. (2 A&S)	Seneca
Beach, H. F. (G VAE)°	Walterboro	Blackwood, W. C. (1 IndMgt)°	Columbia
Bearrow, L. W. (2 A&S)	Walterboro	Blair, H. L. (1 E-ME)°	Greenville
Beasley, J. C. (1 E-EE)°	Savannah, Ga.	Blakely, D. R. (2 VAE)	Laurens
Beasley, T. J. (2 IndMgt)°	Bishopville	Blakely, W. F. (1 E-ME)°	Ora
Beason, J. P. (2 A-Dairy)	Columbia	Blakely, W. M. (4 TM)	Simpsonville
Beatty, G. P. (2 ME)	Lakeland, Fla.	Blakeney, B. C. (3 CE)	Pageland
Beaty, D. H. (1 Arch)°	Walhalla	Blanchard, C. C. (1 E-CE)°	Charleston

Name and Course **Address**
 Blanchard, P. E. (3 Arch)..... Johns Island
 Blandford, J. B. (2 CrEn)..... Greenville
 Blandford, J. C. (4 TM)..... Greenville
 Blanke, E. H. (3 ME)..... New City, N. Y.
 Blanton, A. B. (4 TM)..... Forest City, N. C.
 Blanton, J. A. (1 TM)..... Forest City, N. C.
 Blanton, L. C. (3 AH)..... Tavares, Fla.
 Blease, W. B. (1 ChEn)..... Saluda
 Blecher, D. H. (1 Pre-Med).....

New York N. Y.

Bloodworth, G. R. (2 IndMgt).....

Charleston Heights

Boatwright, C. (1 TM)..... Belton
 Boatwright, R. N. (1 A-Hort)..... Johnston
 Bobo, B. A. (1 IndMgt)..... Anderson
 Bobo, J. C. (4 TM)..... Laurens
 Bobo, W. S. (3 Chem)..... Williamston
 Bodendorf, E. F. (2 CrEn)..... Aiken
 Boggs, J. F. (2 A-Poul)..... Central
 Boggs, R. H. (G)..... Anderson
 Boggs, T. L. (1 E-CE)..... Honea Path
 Boggs, V. L. (1 TM)..... Central
 Boggs, W. R. (1 E-CE)..... Central
 Bohlen, G. A. (2 ME)..... Charleston
 Boiter, J. W. (3 IndEd)..... Duncan
 Bolding, L. D. (1 E-ME)..... Liberty
 Boles, S. J. (3 ME)..... Lexington
 Bolick, H. E. (2 EE)..... Laurens
 Bolt, C. H. (1 Pre-Med)..... Laurens
 Bolt, J. O. (4 AgEn)..... Anderson
 Bolton, R. S. (3 EE)..... Greenwood
 Bond, M. L. (2 A-Dairy)..... Columbia
 Boozer, C. H. (2 EE)..... Denmark
 Borchert, D. F. (3 VAE)..... Greenville
 Bordenkircher, F. E. (2 Arch).....

Mt. Sterling, Ill.

Bosnak, M. (1 E-CE)..... Chicago, Ill.
 Boudoucies, A. G. (4 TM)..... Greenville
 Bouknight, R. W. (1 TM)..... Abbeville
 Boulware, J. H. (Unc)..... Seneca
 Boulware, T. T. (1 E-CE)..... Winnsboro
 Bourne, J. C. (1 IndMgt)..... Greenwood
 Bowen, D. A. (3 EE)..... Piedmont
 Bowen, G. W. (4 AH)..... Abbeville
 Bowen, J. B. (4 A&S)..... Villa Rica, Ga.
 Bowen, R. G. (2 EE)..... Brevard, N. C.
 Bowick, T. R. (1 TM)..... Greenwood
 Bowman, G. C. (2 CE)..... Liberty
 Bowman, L. R. (2 ME)..... Clemson
 Bowman, P. W. (1 E-ME)..... Greenville
 Box, B. R. (1 E-CE)..... Charleston Heights
 Box, J. D. (3 EE)..... North Charleston
 Boyce, T. E. (4 TE)..... Joanna
 Boykin, R. M. (1 E-EE)..... Charleston
 Bracknell, J. L. (1 E-ME)..... Plum Branch
 Bradberry, R. C. (2 EE)..... Athens, Ga.
 Bradford, J. M. (1 E-ME)..... Lowry
 Bradham, R. R. (1 E-CE)..... Barnwell
 Bradley, J. E. (2 IndMgt)..... Williston
 Bradley, T. J. (3 Pre-Med)..... Savannah, Ga.
 Bradley, W. D. (1 E)..... Aiken
 Bragg, L. O. (4 TM)..... Enoree
 Bragg, R. J. (1 IndMgt).....

Port Wentworth, Ga.

Braid, J. D. (2 ME)..... Charleston
 Braid, M. T. (4 EE)..... North Charleston
 Bramlette, J. M. (2 ME)..... Greenville
 Brandon, L. R. (2 IndEd)..... York
 Brandt, F. N. (2 Arch)..... Spartanburg
 Brannett, J. W. (4 TM)..... Whitmire
 Brannen, V. W. (1 E-EE)..... Savannah, Ga.
 Brantley, J. E. (1 E-ME)..... Columbia
 Brantley, J. L. (2 IndMgt)..... Ridgeland
 Brantly, R. S. (2 EE)..... Charleston
 Branyon, J. T. (1 IndMgt)..... Honea Path
 Braswell, M. P. (3 ME)..... Clemson
 Bratkovsky, D. S. (2 TM).....

Bridgeport, Conn.

Name and Course **Address**
 Bratton, R. C. (2 TC)..... Rock Hill
 Bray, T. P. (2 TM)..... Greenville
 Brazil, T. W. (1 IndMgt)..... Rock Hill
 Breeden, W. C. (1 A&S)..... Bennettsville
 Breland, K. M. (2 AgEn)..... Frogmore
 Breland, R. F. (1 VAE)..... Cottageville
 Brewton, S. A. (4 Arch)..... Savannah, Ga.
 Bridges, B. K. (1 A-AH)..... Greenville
 Bridges, W. M. (1 E-EE)..... Chester
 Bridgman, D. M. (4 TM)..... Belton
 Bridwell, J. W. (4 TM)..... Woodruff
 Briel, E. M. (4 CE)..... Miami, Fla.
 Brigham, W. L. (1 IndMgt)..... Greenville
 Bright, J. C. (2 TM)..... Swannanoa, N. C.
 Brinkley, J. E. (1 TM)..... Asheville, N. C.
 Britt, T. H. (1 E-EE)..... Georgetown
 Britt, W. A. (2 VAE)..... Orrum, N. C.
 Brittain, J. E. (3 EE)..... Horse Shoe, N. C.
 Britton, J. J. (2 A-Agron)..... Sumter
 Broadway, O. A. (2 ME)..... Bishopville
 Broadwell, C. J. (1 TM)..... Darlington
 Brock, D. (Unc)..... Seneca
 Brock, Z. O. (2 TE)..... Iva
 Brockington, G. B. (1 A-Dairy)..... Clinton
 Brockman, J. E. (1 E-CE)..... Greenville
 Brockman, W. H. (1 E-CE)..... Greer
 Brodie, J. M. (1 A-Hort)..... Barnwell
 Brooks, D. K. (1 IndMgt)..... Easley
 Brooks, F. E. (1 E-ME)..... Sandersville Ga.
 Brooks, H. C. (4 AgEn)..... Fountain Inn
 Brooks, L. J. (3 EE)..... Pendleton
 Brooks, R. H. (1 Ed)..... Loris
 Brooks, R. M. (1 A-AH)..... Pendleton
 Brown, B. Q. (1 IndMgt)..... Barnwell
 Brown, C. E. (3 Agron)..... Kingstree
 Brown, C. M. (3 EE)..... Anderson
 Brown, C. V. (4 EE)..... Asheville, N. C.
 Brown, E. E. (4 VAE)..... Woodruff
 Brown, E. L. (3 Arch)..... Columbia
 Brown, J. H. (2 ME)..... St. Stephen
 Brown, James L. (2 IndMgt)..... Augusta, Ga.
 Brown, James Liston (G. Agron)..... Dillon
 Brown, John L. (2 Arch)..... Sumter
 Brown, Joseph L. (1 ChEn)..... Charleston
 Brown, J. P. (1 E-ME)..... Sedalia
 Brown, J. R. (4 A&S)..... Easley
 Brown, J. W. (2 Pre-Med)..... Newberry
 Brown, L. D. (Unc)..... Clemson
 Brown, L. G. (1 E-EE)..... Pickens
 Brown, L. S. (1 E)..... Easley
 Brown, M. E. (1 E-EE)..... Gaffney
 Brown, T. W. (1 E-AgEn)..... Dacusville
 Brown, W. B. (1 E-ME)..... Georgetown
 Brown, W. E. (4 AgEn)..... Gaffney
 Brown, W. O. (3 Agron)..... Andrews
 Browne, C. E. (3 TE)..... Troy
 Browne, G. H. (1 E-EE)..... Rock Hill
 Browne, R. S. D. (2 EE)..... Anderson
 Browning, V. S. (3 ME)..... Spartanburg
 Bruner, J. F. (1 Arch)..... Westminster
 Bruner, W. M. (1 Pre-For)..... Clemson
 Brunson, D. J. (1 E-ME)..... Charleston
 Brunson, J. W. (3 EE)..... Rock Hill
 Brunson, R. E. (2 IndMgt)..... Rock Hill
 Bruorton, H. B. (1 A-AH)..... Georgetown
 Bruton, W. T. (1 E-ME)..... Charlotte, N. C.
 Bryan, C. A. (2 IndMgt)..... Columbia
 Bryan, G. T. (1 E-ME)..... Greenville
 Bryan, J. A. (1 E-EE)..... Conway
 Bryan, P. H. (2 Chem)..... Joliet, Ill.
 Bryant, D. H. (3 Agron)..... Dillon
 Bryant, E. L. (4 AH)..... Darlington
 Bryant, E. M. (2 EE)..... Greenville
 Bryant, L. F. (1 E-EE)..... Orangeburg
 Bryant, R. L. (1 TM)..... Pelzer
 Bryce, G. T. (1 Pre-Med)..... Florence
 Bryson, R. E. (3 ChEn)..... Woodruff
 Buchanan, C. A. (3 TM)..... Greenwood

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Buck, F. E. (1 A&S).....	Sumter	Cantley, M. P. (2 A-AgEc).....	Kingstree
Buck, G. R. (4 Arch).....	Columbia	Cantley, R. D. (1 VAE)°.....	Kingstree
Buck, R. M. (4 AH).....	Mt. Pleasant	Cantrell, B. L. (1 TM)°.....	Inman
Buckner, D. A. (2 VAE).....	Johns Island	Capell, L. C. (4 EE).....	Greenwood
Buckner, D. J. (1 E-EE)°.....	Chesnee	Capell, W. J. (2 EE).....	Greenwood
Buckner, M. R. (3 TE).....	Greenville	Cappa, J. R. (1 IndMgt)——	Connellsville, Pa.
Buddin, J. R. (2 Ed).....	Scranton	Caristo, J. C. (3 Arch).....	Brooklyn, N. Y.
Buffkin, R. M. (2 A&S).....	Heath Springs	Carlisle, R. N. (2 ChEn).....	Duncan
Bull, P. S. (1 Pre-For)°.....	Taylors	Carlton, J. W. (1 E-EE)°.....	Chester
Bullington, A. B. (2 Chem).....	Spartanburg	Carlton, V. C. (3 AH).....	Newberry
Bullock, J. F. (1 A-Agron).....	Florence	Carmichael, E. H. (1 A-Agron)°.....	Aynor
Bullock, J. W. (2 TM).....	Greenville	Carmichael, V. L. (1 VAE)°.....	Johnstown, Pa.
Bumgardner, G. H. (2 EE)——	Asheville, N. C.	Carpenter, G. S. (1 Pre-Med)°.....	Seneca
Bunch, J. L. (1 A-AH)°.....	Laurel Hill, N. C.	Carpenter, J. D. (1 E-TE)°.....	Gaffney
Bunton, D. L. (2 TM).....	Pelzer	Carpenter, W. E. (PG CE).....	Graniteville
Burbage, R. W. (3 EE).....	Charleston	Carr, J. C. (1 IndMgt).....	Laurens
Burden, C. A. (1 IndMgt).....	Piedmont	Carroll, A. B. (2 VAE).....	Westminster
Burden, W. S. (4 TE).....	Piedmont	Carroll, H. (G Phys)°.....	Anderson
Burdette, J. D. (1 E-EE)°.....	Westminster	Carroll, J. W. (1 A-Agron)°.....	Smoaks
Burdette, R. E. (2 IndMgt).....	Spartanburg	Carson, C. C. (1 Arch)°.....	Kingsport, Tenn.
Burgess, J. K. (1 IndMgt).....	Atlanta, Ga.	Cartee, J. L. (1 E-ME)°.....	Greenville
Burke, D. K. (1 E)°.....	Charlotte, N. C.	Carter, A. B. (2 ME).....	Brevard, N. C.
Burnett, J. T. (2 ME).....	Greenwood	Carter, B. E. (1 E-EE).....	Rock Hill
Burnett, R. F. (4 AgEn).....	Greenwood	Carter, J. R. (1 E-ME)°.....	Fort Mill
Burnside, B. R. (1 E-ME)°.....	Chester	Carter, N. K. (1 Pre-Med)°.....	Talbotton, Ga.
Burrell, C. F. (1 Pre-Med)°.....	Erwin, Tenn.	Carter, R. A. (2 IndMgt).....	Savannah, Ga.
Burrell, W. H. (1 Chem)°.....	Startex	Carter, R. E. (2 Chem).....	Rock Hill
Burress, W. R. (3 ME).....	Ware Shoals	Carter, R. L. (3 ME).....	Gaffney
Burris, D. M. (2 EE).....	Liberty	Carter, T. L. (1 E-EE)°.....	Lexington
Burris, W. M. (2 TM).....	Anderson	Case, E. G. (1 A-Agron).....	Glen Rock, N. J.
Burton, H. R. (2 A-Dairy).....	Iva	Cash, C. S. (4 AH).....	Gaffney
Bush, J. L. (2 Ed).....	Atlanta, Ga.	Cason, R. L. (4 ME).....	Clinton
Busher, E. L. (1 IndMgt)°——	Bronxville, N. Y.	Cassidy, D. J. (1 ChEn)°.....	Petersburg, Va.
Bushyager, J. A. (1 IndMgt)°——	Jeannette, Pa.	Castles, J. A. (1 A)°.....	Rion
Bussey, C. W. (3 TM).....	Henderson, N. C.	Cates, F. B. (G Hort).....	Wadmalaw Island
Butler, C. M. (3 EE).....	Hartsville	Cathcart, B. L. (1 IndMgt)°.....	Greenville
Butler, W. V. (3 Ed).....	Cheraw	Cathcart, V. E. (1 IndMgt).....	Rock Hill
Butt, J. B. (4 ChEn).....	Greensboro, N. C.	Catoe, E. F. (1 Ed).....	Kershaw
Butt, J. M. (4 EE).....	Columbia	Causey, N. E. (2 A-AH), Chadbourn, N. C.	Causey, N. E. (2 A-AH), Chadbourn, N. C.
Byars, R. J. (3 ME).....	Gaffney	Cely, M. S. (3 Ent).....	Easley
Bybee, R. T. (3 EE).....	Greenville	Chaddick, L. A. (4 ChEn).....	Charleston
Byers, E. W. (3 CE).....	Greenville	Chalmers, J. W. R. (1 A)°.....	Walhalla
Byrd, B. W. (2 A-Agron).....	Hartsville	Chambers, W. T. (4 EE).....	Toccoa, Ga.
Byrd, J. D. (1 A)°.....	Hartsville	Chamblee, A. D. (1 A-AH).....	Anderson
Byrd, L. M. (1 E)°.....	Sharon	Chamblee, L. C. (2 IndMgt).....	Anderson
Byrd, T. R. (3 Pre-Med).....	Kershaw	Chance, C. S. (2 TM)——	Winston-Salem, N. C.
Cain, D. L. (1 E)°.....	Slater	Chapman, B. H. (2 A-AH).....	Anderson
Cala, V. J. (1 Pre-Med)°.....	Baltimore, Md.	Chapman, E. S. (1 E-AgEn).....	Laurens
Calcutt, W. H. (3 Pre-Med).....	Pamplico	Chapman, L. B. (2 EE).....	Easley
Caldwell, M. A. (2 TC).....	Rock Hill	Chapman, W. F. (2 A-AgEc).....	Belton
Califf, J. W. (PG Arch)°.....	Clemson	Charles, G. H. (4 CE)——	Daytona Beach, Fla.
Callaway, P. F. (2 EE).....	Belleville, Ill.	Chase, M. I. (2 Chem).....	Brooklyn, N. Y.
Camby, M. D. (1 TM)°.....	Spartanburg	Chastain, J. B. (G VAE)°.....	Pamplico
Cameron, J. W. (2 CrEn).....	Bradley	Chastain, R. N. (3 AH).....	Taylors
Cameron, T. S. (2 IndMgt)——	Jersey City, N. J.	Cheek, J. F. (3 TM).....	Anderson
Camp, M. J. (1 E-TE)°.....	Lancaster	Cheek, S. E. (1 Ed).....	Catechee
Campbell, B. F. (1 E-CE).....	Dillon	Cheek, W. M. (1 TM)°.....	Anderson
Campbell, C. K. (2 EE).....	Greenville	Cheslak, W. M. (1 E-ME).....	Carteret, N. J.
Campbell, G. W. (2 IndMgt).....	Anderson	Chewning, R. C. (4 EE).....	Manning
Campbell, J. M. (2 TM).....	Belton	Childers, F. R. (2 IndMgt).....	Gaffney
Campbell, J. P. (3 TM).....	Anderson	Childress, B. R. (3 TM).....	Liberty
Campbell, L. D. (1 A-AgEc).....	Belton	Childress, L. E. (1 IndMgt)°——	Kenmore, N. Y.
Campbell, M. K. (G Ed)°.....	Anderson	Childress, R. L. (4 TE).....	New Orleans, La.
Campbell, M. L. (4 EE).....	Belton	Childress, T. C. (2 VAE).....	Laurens
Campbell, R. (1 Chem)°.....	Bennettsville	Childress, W. C. (1 VAE).....	Pickens
Campbell, S. D. (3 CE).....	Orangeburg	Childs, J. B. (G Ed)°.....	Central
Campbell, T. A. (2 IndMgt).....	Clemson	Chlystun, W. K. (1 ChEn)°——	Port Clinton, Ohio
Campbell, W. M. (2 TC).....	Rock Hill	Christian, G. W. (3 TM).....	McCormick
Candler, H. H. (1 TM).....	Lockhart	Christman, L. P. (1 E-EE)°.....	N. Augusta
Cannon, B. C. (2 CE).....	Clemson	Church, O. E. (1 CrEn).....	Taylors
Cannon, D. C. (1 E-ME)°.....	Sumter	Clark, D. R. (1 A-Agron)°.....	Hartsville
Cannon, D. E. (2 EE).....	Pickens	Clark, D. W. (1 E-ME)°.....	Union
Cannon, E. S. (1 A&S)°.....	Clemson	Clark, H. L. (1 E-EE)°.....	Dillon
Cannon, H. F. (G VAE)°.....	Anderson		
Cannon, K. E. (2 TE).....	Marion, N. C.		

Name and Course	Address	Name and Course	Address
Clark, M. C. (1 E-ME)*—	Charleston Heights	Corrado, T. G. (1 VAE)*	Paterson, N. J.
Clark, W. H. (2 TM)	Warrenville	Corrigan, M. F. (2 IndMgt)	Clinton, Iowa
Clarke, G. H. (1 A-AgEc)	Bloomsburg, Pa.	Cothran, D. C. (1 IndMgt)*	Central
Clary, W. T. (2 ME)	Fort Lawn	Cothran, L. E. (3 CrEn)	Central
Clawson, F. S. (1 IndMgt)*—	Maplewood, N. J.	Cothran, R. E. (1 IndMgt)*	Greenwood
Clement, B. R. (4 TC)	Anderson	Courtney, J. F. (2 ChEn)	Philadelphia, Pa.
Clement, J. P. (2 CE)	Charleston	Cousins, W. B. (3 AgEc)	Newberry
Clement, J. R. (1 VAE)*	Inman	Covin, W. J. (1 Pre-Med)*	Lancaster
Clement, W. B. (2 ME)	Spartanburg	Covington, J. C. (PG TM)	Clio
Cleveland, B. G. (1 IndMgt)	Anderson	Covington, J. L. (3 EE)	Clio
Cleveland, R. H. (4 Pre-Med)	Seneca	Covington, N. J. (4 EE)	Charlotte, N. C.
Clifford, G. D. (2 ME)	Leesburg, Ga.	Cox, A. G. (4 ME)	Raleigh, N. C.
Clochessy, J. F. (1 E-CE)*—	New City, N. Y.	Cox, A. J. (1 VAE)	Loris
Coats, W. G. (3 VAE)	Cross Hill	Cox, C. E. (1 E-CE)*	Seneca
Cobb, H. R. (2 A-Hort)	Hodges	Cox, J. B. (1 E-ME)*	Greenville
Cobb, Joe G. (2 EE)	Walhalla	Cox, J. C. (1 E-ME)*	Alexandria, Va.
Cobb, Judge G. (1 E-TE)*	Toccoa, Ga.	Cox, J. E. (3 AH)	Loris
Cobb, R. K. (2 ME)	Greenville	Cox, M. E. (3 EE)	Greenwood
Cochran, A. S. (2 CE)*—	Pisgah Forest, N. C.	Cox, S. C. (1 E-EE)*	Fairborn, Ohio
Cochran, C. D. (2 ME)	Greenville	Cox, S. W. (1 Ed)	Atlanta, Ga.
Cochran, D. J. (2 IndMgt)	Charlotte, N. C.	Cox, T. L. (1 E-EE)	Greenville
Cochran, J. D. (3 ME)	Greenville	Cox, W. E. (1 E-CE)	Marietta
Cochran, P. C. (2 VAE)	Manning	Craddock, J. M. (2 A-Poul)	Fairfax
Cochran, W. F. (4 AgEn)	Anderson	Craft, N. R. (1 IndMgt)*	Anderson
Cochran, W. H. (2 IndEd)	Pickens	Craft, R. A. (1 TM)	Anderson
Cockrell, W. F. (4 TM)	Grover, N. C.	Craig, H. N. (1 CrEn)*	Clover
Coggins, H. C. (1 Pre-Med)	Spartanburg	Craig, J. T. (Unc)*	Pickens
Coggins, J. M. (4 EE)	Spartanburg	Crane, H. E. (4 Hort)—	North Caldwell, N. J.
Coker, C. E. (1 CrEn)*	Turbeville	Crapps, P. C. (1 Pre-For)*	Live Oak, Fla.
Cole, G. W. (3 AgEn)—	St. Simons Island, Ga.	Craven, W. H. (G Agron)*	Edgefield
Cole, M. H. (Unc)*	Clemson	Crawford, C. R. (4 Arch)	Columbia
Cole, S. R. (1 A&S)	Clemson	Crawford, G. E. (3 TM)	Fountain Inn
Coleman, D. L. (1 VAE)*	Latta	Crawford, J. P. (3 AgEn)	Pineville
Coleman, J. H. (3 TM)	Honea Path	Crawford, J. T. (1 IndMgt)	Hartsville
Coleman, K. K. (4 ME)	Orlando, Fla.	Crawley, J. E. (2 ME)	Kinston, N. C.
Coleman, T. L. (1 A-Dairy)	Saluda	Crawley, W. H. (2 Pre-Med)—	Forest City, N. C.
Coleman, W. L. (4 Pre-Med)	Pamplico	Crenshaw, B. M. (4 EE)	Piedmont
Collard, E. B. (2 Pre-For)	Rock Hill	Crenshaw, E. M. (4 TM)	Lancaster
Collins, A. B. (1 E-EE)*	Gaffney	Crews, J. F. (4 Pre-Med)	Hampton
Collins, A. P. (3 ChEn)	Chester	Crittenden, E. M. (1 IndMgt)*—	Ware Shoals
Collins, D. J. (2 EE)	Greer	Crocker, A. L. (2 Ed)	Gaffney
Collins, O. L. (4 TM)	Fort Mill	Crocker, A. O. (1 Arch)*	Union
Compton, E. T. (3 ME)	Greenwood	Cromer, R. L. (1 E-EE)*	Greenville
Compton, J. P. (1 E-ME)*	Anderson	Cromer, W. G. (1 IndMgt)*	Anderson
Connelly, D. H. (1 Pre-For)*	Pickens	Cromer, W. L. (2 EE)	Sumter
Connelly, P. L. (2 A-AH)	Hampton	Crook, J. L. (1 ChEn)*	St. George
Connor, A. S. (1 E-ME)*	Lamar	Crosby, J. F. (1 Pre-Vet)*	Smoaks
Connor, L. N. (2 ME)	Barnwell	Crosby, K. D. (1 E-CE)*	Belton
Connor, W. K. (2 Arch)	McCormick	Crosland, B. G. (4 ArEn)	Greenville
Conwell, F. M. (2 EE)*	Greenwood	Cross, A. H. (1 VAE)	Cross
Cook, B. L. (2 A-Dairy)	Denmark	Cross, J. S. (1 Ed)*	Manassas, Va.
Cook, H. (4 A&S)	Spartanburg	Crosson, W. N. (2 Pre-Med)	Greenville
Cook, J. M. (2 ME)	Norris	Crotwell, W. R. (3 Arch)	Savannah, Ga.
Cook, R. C. (1 TM)	Woodruff	Crow, F. A. (1 IndMgt)	Moncks Corner
Cook, S. A. (Unc)*	Clemson	Crowder, B. H. (3 IndMgt)	Spartanburg
Cook, W. C. (2 A-Dairy)	Norris	Crowder, W. A. (1 E-AgEn)—	Lattimore, N. C.
Cooke, C. M. (1 E-EE)*	Florence	Crowe, B. H. (2 TM)	Liberty
Coolbaugh, R. K. (Unc)*	Anderson	Crowley, W. O. (1 E-TE)*	Sumter
Cooley, B. J. (1 Ed)*	Anderson	Crump, J. E. (3 EE)	Anderson
Cooper, B. R. (4 TM)	Winnboro	Cruz, C. J. (G Chem)	Fairhaven, Mass.
Cooper, B. V. (4 ME)	Naval Base	Cudd, J. E. (1 IndMgt)*	Arlington, Va.
Cooper, H. F. (2 ME)	Augusta, Ga.	Cudd, M. L. (1 E-EE)*	Gaffney
Cooper, J. R. (G AgEc)	Clemson	Culbertson, T. R. (2 ChEn)	Ware Shoals
Cooper, S. L. (1 Chem)	Clemson	Cullom, J. E. (1 E-EE)*	Allendale
Cooper, W. N. (1 E)*	Travelers Rest	Cullum, F. R. (1 E-EE)*	Greenville
Copeland, A. F. (3 TE)	Greer	Culp, J. C. (1 E-ME)*	Lancaster
Copeland, L. B. (1 E-AgEn)*	Buffalo	Culp, W. L. (1 ChEn)	Inman
Corbett, P. H. (1 E-AgEn)*	Neeses	Culpepper, T. D. (2 IndMgt)	Augusta, Ga.
Corbin, J. K. (G Phys)*	Franklin, N. C.	Cunningham, J. F. (1 E-TE)*	Taylors
Corkern, W. D. (2 Arch)	Georgetown	Cunningham, R. L. (1 E-CE)*	Taylors
Corley, R. A. (1 E-ME)*	North Augusta	Cunningham, T. E. (4 Arch)	Greenville
Corley, W. E. (1 E-ME)*	Lexington	Cureton, R. B. (4 TE)	Columbia
Corley, W. L. (2 A-Agron)	Lexington	Cureton, R. H. (1 Pre-Med)	Clemson
Cornelius, J. E. (1 E-ME)	Sea Girt, N. J.	Curtis, R. C. (1 ChEn)*	Charleston
		Curry, D. D. (1 TM)	Honea Path

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Daigneault, D. J. (1 Ed)°	Malone, N. Y.	Dudley, T. A. (3 Agron)	Galivants Ferry
Dailey, W. C. (3 Agron)	Blenheim	Duffie, J. B. (3 ChEn)	Sumter
Dalton, J. S. (3 AgEn)	Pickens	Duffies, D. E. (3 EE)	Roselle Park, N. J.
Daniels, G. N. (1 E-EE)°	North Augusta	Dukes, H. L. (3 VAE)	Reevesville
Danielsen, T. S. (2 EE)	Batesburg	Dukes, M. F. (1 Ed)°	Atlanta, Ga.
Dantzler, W. D. (2 VAE)	Holly Hill	Dukes, W. E. (2 Pre-Med)	Honea Path
Darden, N. D. (1 E-TE)°	Albertville, Ala.	Dulin, W. F. (3 AgEn)	Bowling Green
Darragh, T. R. (2 IndMgt)	Greenwood	Dunkelberg, D. S. (3 A&S)°	Clemson
Davenport, F. S. (1 A-Dairy)°	Greenville	Dunlap, V. W. (1 ChEn)	Charleston Heights
Davenport, H. C. (2 CE)°	Gastonia, N. C.	Dunn, D. L. (1 IndMgt)°	Tucker, Ga.
Davenport, J. A. (1 Arch)	Piedmont	Dunn, J. H. (3 ME)	Clemson
Davis, C. A. (4 TM)	Fairforest	Dunn, J. W. (3 IndMgt)	Columbia
Davis, C. H. (2 Ed)	Walhalla	Dunn, R. J. (1 Chem)	Coopersburg, Pa.
Davis, D. C. (4 TM)	Kingsport, Tenn.	Dunn, W. J. (3 Hort)	Sumter
Davis, D. R. (1 A)	Inman	DuPre, G. C. (3 EE)	Columbia
Davis, E. (1 Chem)°	Taylors	Durant, W. R. (1 E-AgEn)°	Gable
Davis, F. D. (2 A-AH)	Fountain Inn	Durham, E. F. (1 TM)	Blackstock
Davis, J. C. (1 E-EE)°	Belton	Durham, H. E. (1 A)°	Piedmont
Davis, J. E. (Unc)°°	Clemson	Durham, J. W. (1 E-EE)°	Pickens
Davis, J. T. (1 E-AgEn)°	Valdosta, Ga.	Durham, W. F. (3 CE)	Greenville
Davis, P. F. (1 E-ME)°	Norway	Duritzo, P. (1 E-TE)°	Greer
Davis, P. M. (1 VAE)	Aynor	Dutton, J. B. (1 IndMgt)°	Clinton
Davis, R. (G VAE)	Johns Island	Duvall, G. L. (1 CE)	Cheraw
Davis, Robert E. (Unc)°°	Clemson	Duvall, R. M. (3 A&S)	Cheraw
Davis, Russell E. (2 ME)	Pawleys Island	Duvall, S. E. (1 E-EE)°	Greenville
Davis, R. R. (1 IndMgt)	Roslyn Heights, N. Y.	Dye, F. D. (1 E-EE)°	Forest Park, Ga.
Davis, T. W. (1 TM)	Myrtle Beach	Dyer, O. D. (1 E-EE)°	Greenville
Davis, W. A. (2 ME)	Norway	Eaddy, D. W. (1 A-Agron)°	Lake City
Davis, W. H. (2 ME)	Charleston Heights	Eaddy, R. D. (1 IndMgt)°	Johnsenville
Day, J. E. (4 ME)	North Charleston	Eaddy, V. S. (1 VAE)°	Lake City
Day, J. T. (4 CE)	Summerville	Eaddy, W. H. (G VAE)°°	Hemingway
Deadwyler, J. C. (1 E-EE)	Six Mile	Eargle, J. N. (1 ChEn)	Saluda
Deal, O. S. (1 IndMgt)	Pelzer	Earle, J. E. (2 Pre-Med)	Walhalla
Deas, E. G. (2 EE)	Rock Hill	Earle, K. P. (G Ed)°°	Clemson
Deatin, J. T. (1 E-ME)°	Lancaster	Earle, T. P. (2 VAE)	Central
DeBerry, F. W. (1 IndMgt)°	Raleigh, N. C.	Eason, H. K. (G TC)	Charleston
Dellastatious, P. S. (1 IndMgt)	Silver Spring, Md.	Edenfield, M. E. (2 A-AH)	Augusta, Ga.
DeLoach, R. C. (1 E-ME)	Furman	Edens, C. D. (1 E-TE)°	Pickens
Dempsey, G. A. (2 ME)	Lyman	Edens, J. G. (1 A&S)°	Bennettsville
Dempsey, J. H. (1 TC)°	Lyman	Edens, M. U. (1 ChEn)°	Dillon
Dennis, F. S. (1 E-ME)	Linwood, N. C.	Edgar, W. G. (1 IndMgt)°	Easley
Dennis, T. W. (1 E-CE)	Johnsenville	Edgeworth, R. W. (4 ME)	Clinton
Derreberry, B. C. (2 IndMgt)	Copperhill, Tenn.	Edmunds, E. L. (1 E)°	Kingsport, Tenn.
Derrick, B. G. (2 IndMgt)	Westminster	Ednie, E. L. (1 IndMgt)°	Saltsburg, Pa.
Derrick, L. C. (3 ME)	Little Mountain	Edwards, A. H. (1 E-ME)	Highlands, N. C.
Derrick, W. F. (2 CE)°	Greenville	Edwards, C. E. (4 EE)°	Charleston
DeSimone, R. L. (1 Ed)	Avonmore, Pa.	Edwards, D. D. (3 AH)	Highlands, N. C.
DeVane, C. B. (1 E-CE)°	Florence	Edwards, J. C. (1 E-CE)°	Cowpens
Dibble, R. B. (2 A-Hort)	Orangeburg	Edwards, J. F. (4 CrEn)	Saluda
Dickens, A. W. (3 AgEn)	Marion	Edwards, R. E. (1 VAE)°	Asheville, N. C.
Dickson, J. F. (2 AgEn)	York	Edwards, W. B. (4 EE)	Spartanburg
Dill, C. (1 Ed)	Alexandria, Va.	Edwards, W. F. (1 IndMgt)°	Villa Rica, Ga.
Dill, W. H. (1 TM)°	Landrum	Eidson, J. A. (2 Pre-Vet)	Johnston
Dillard, S. W. (4 AH)	Pacolet	Elgin, C. F. (3 EE)	Anderson
Dinkins, R. R. (2 IndMgt)	Sumter	Elliott, E. J. (2 ChEn)	Spartanburg
Dixon, J. S. (2 A-Dairy)	Asheville, N. C.	Elliott, J. D. (3 VAE)	Loris
Dixon, R. P. (1 E-EE)°	Smyrna	Elliott, R. F. (4 AH)	Rimini
Doar, J. M. (4 A&S)	Winter Park, Fla.	Ellis, J. R. (1 IndMgt)°	Anderson
Dominick, V. S. (4 TE)	Rock Hill	Ellis, R. S. (1 IndMgt)°	Aiken
Donelan, C. A. (2 EE)	Columbia	Ellison, A. A. (1 IndMgt)	Anderson
Donovan, D. L. (2 EE)	Greenville	Ellison, D. C. (2 TM)°°	Easley
Dorsey, W. F. (2 ME)	Newry	Ellison, J. M. (1 IndMgt)°	Easley
Dotterer, G. T. (1 E-CE)°	Charleston	Ellison, T. W. (2 ME)	Williamston
Dotterer, W. A. (2 IndMgt)	Charleston	Elmore, F. L. (1 E-CE)°	Crouse, N. C.
Dowdle, H. J. (2 CrEn)	Columbia	Elrod, A. C. (G)°°	Clemson
Downie, J. J. (2 ME)	Vineland, N. J.	Elrod, F. L. (1 TM)	Piedmont
Doyle, J. B. (2 IndMgt)	Holly Hill	Elrod, T. W. (1 VAE)	Anderson
Drake, J. F. (1 IndMgt)	Greenville	Emanuel, W. Y. (1 E)	Lancaster
Driggers, L. B. (3 AgEn)	Sumter	Emory, W. G. (1 E-TE)°	Spartanburg
Driggers, W. J. (1 Pre-Vet)°	Sumter	Ennis, W. B. (4 TE)	Daytona Beach, Fla.
Dubis, R. J. (1 E-ME)°	Charleston Heights	Enos, W. K. (3 CrEn)	Charleston
DuBose, J. C. (1 VAE)	Cades	Ernst, W. S. (G CrEn)°	Knoxville, Tenn.
DuBose, W. P. (3 Ent)	Darlington	Erwin, H. E. (1 E-ME)°	Edgefield
Duckworth, R. J. (2 ME)°	Brevard, N. C.	Erwin, H. S. (2 A&S)	Abbeville
DuCom, P. F. (2 EE)	Sumter		

Name and Course	Address	Name and Course	Address
Erwin, L. H. (3 A&S)	Brevard, N. C.	Fowler, J. K. (4 AgEn)	Easley
Erwin, O. C. (4 A&S)	Abbeville	Fowler, L. A. (3 TM)	Mauldin
Erwin, R. M. (1 IndMgt)*	Laurens	Fox, B. S. (1 TM)*	Easley
Estridge, B. L. (2 TM)	Kershaw	Fox, J. M. (1 TM)*	Inman
Etheredge, W. C. (2 IndEd)	North	Foxworth, D. M. (3 CE)	Columbia
Eubanks, E. W. (1 E-EE)*	Loris	Foxworth, L. O. (4 Ed)	Townville
Eurey, E. M. (3 ME)	Estill	Foxworth, W. P. (1 E-EE)*	Oakley
Evans, J. H. (1 E-EE)*	Orangeburg	Fraleigh, D. K. (1 A-AgEc)	Florence
Evans, J. M. (2 ME)	Atlanta, Ga.	Fralick, B. D. (1 E-ME)*	Bamberg
Evans, T. A. (3 Arch)	Kenmore, N. Y.	Fralick, M. I. (4 Dairy)	Bamberg
Evatt, B. F. (1 IndMgt)	Anderson	Free, H. D. (4 AH)	Bamberg
Every, R. M. (1 IndMgt)*	Spartanburg	Freed, W. W. (1 E-TE)*	Aiken
Ewing, B. H. (2 ME)	Washington, D. C.	Freeman, J. D. (3 IndPhys)	Aiken
Faile, C. D. (1 E-TE)	Fort Mill	Freeman, J. P. (1 E-CE)	Dacusville
Fain, C. C. (G CrEn)*	Spartanburg	Freiday, T. J. (1 E)*	Aiken
Fairey, C. (1 IndMgt)*	Rowesville	Frewer, J. R. (4 EE)	Savannah, Ga.
Falin, R. B. (1 A&S)	Gate City, Va.	Friar, B. R. (2 VAE)	Florence
Fallow, M. W. (1 A-AH)*	Leesville	Frick, D. F. (1 Chem)*	Columbia
Fanning, J. (1 E-ME)*	Norway	Frick, K. D. (3 ChEn)	Newberry
Fanning, J. E. (1 E-AgEn)*	Springfield	Frierson, J. A. (3 CE)	Summerton
Fant, B. J. L. (1 Ed)*	Lake City	Frierson, T. R. (2 TM)	Morristown, Tenn.
Fant, C. E. (1 Pre-Med)	Seneca	Fudge, D. M. (1 E-CE)	Lyman
Fant, L. F. (3 CE)	Clemson	Fullbright, H. R. (2 IndMgt)	Pendleton
Farabow, F. F. (1 ChEn)*	Charleston	Fuller, E. E. (3 TM)	Charlotte, N. C.
Faris, W. G. (3 Arch)	Ridgeland	Fuller, G. T. (1 TM)	Campobello
Farmer, L. H. (4 Pre-Med)	Anderson	Fuller, M. G. (4 Arch)	Florence
Farmer, L. T. (1 IndMgt)*	—	Fuller, W. C. (2 EE)	Greenville
	Charlotte, N. C.	Funderburk, C. E. (1 E-ME)	Greenwood
Farmer, T. J. (4 Arch)	Burlington, N. J.	Funderburk, C. W. (3 TC)	Lancaster
Faucette, A. M. (4 A&S)	Columbia	Funk, C. F. (2 ME)	Rock Hill
Faulkenberry, G. W. (2 ME)	Lancaster	Gabrels, F. E. (3 ME)	Savannah, Ga.
Faulkenberry, W. E. (1 IndMgt)*	—	Gagarine, D. M. (G Chem)*	Clemson
	Greenville	Gagnon, J. E. (2 EE)	Charleston Heights
Felder, J. W. (2 Ed)	Charleston	Gahr, J. F. (3 EE)	Anderson
Fendley, R. L. (2 EE)	Six Mile	Galbraith, J. L. (4 TE)	Greenville
Fennell, W. M. (1 E-TE)*	Newberry	Gale, T. L. (2 IndMgt)	Baltimore, Md.
Few, E. E. (1 Ed)*	Pickens	Galloway, J. A. (2 EE)	Georgetown
Few, W. E. (1 IndMgt)	Rock Hill	Galloway, W. R. (2 EE)	Georgetown
Fidler, P. R. (2 A-Agron)	Sumter	Gallup, D. G. (2 Ed)	Sumter
Fiebrich, L. (1 E-EE)*	Lexington	Gamble, A. C. (1 TM)*	Greeleyville
Fields, L. B. (2 TM)	Central	Gambrell, S. C. (3 AgEn)	Owings
Figg, J. T. (1 IndMgt)*	Charleston	Gandy, B. F. (1 A-Agron)	Society Hill
Finley, B. F. (1 Pre-Med)*	Easley	Gantick, N. A. S. (2 EE)—	Takoma Park, Md.
Fiocchi, R. J. (1 IndMgt)	Vineland, N. J.	Gantt, L. O. (1 Pre-Med)*	Wagener
Fischbach, G. W. (1 TM)*	Greenville	Garblik, A. I. (Unc)*	Taylors
Fisher, H. R. (1 E-ME)	Lowell, N. C.	Garner, C. P. (1 E-CE)*	Greenville
Fisher, J. D. (2 IndMgt)	Belton	Garner, H. G. (4 TM)	Liberty
Fisher, R. J. (2 TM)	Fairmont, N. C.	Garrard, J. E. (2 EE)—	Chattanooga, Tenn.
Fister, J. R. (2 CE)	New Orleans, La.	Garren, W. R. (G Hort)	Asheville, N. C.
Fitchett, R. G. (2 A-AH)—	Greensboro, N. C.	Garrett, B. V. (1 E-ME)	Piedmont
	Fort Mill	Garrett, E. H. (1 A-AH)*	—
Fite, D. J. (1 E-ME)*	—		Villa Rica, Ga.
Fitzgibbons, R. L. (4 Pre-Med)—	College Park, Ga.	Garrett, G. E. (1 Arch)*	Pickens
	Bowling Green	Garrett, J. S. (1 IndMgt)*	—
Flanagan, R. M. (1 E-CE)*	Pacolet		Travelers Rest
Fleming, J. D. (2 IndPhys)	Anderson	Garrett, J. T. (1 CrEn)*	Anderson
Fleming, M. G. (4 TM)	Spartanburg	Garrett, R. P. (1 A)*	Woodruff
Fleming, M. L. (G Phys)	Hartsville	Garrett, T. R. (1 E-ME)*	Seneca
Flowers, A. T. (3 ME)	Hartsville	Garrett, W. A. (3 CE)	Orangeburg
Flowers, C. B. (1 E-EE)*	Sanford, Fla.	Garris, D. W. (1 E-AgEn)*	Ruffin
Flowers, C. R. (1 E-ME)*	—	Garrison, D. E. (1 IndMgt)	Liberty
Flowers, J. R. (2 ChEn)—	North Charleston	Garrison, H. C. (1 E-EE)*	Hartsville
	Tilman	Garrison, J. C. (1 E-CE)	Greenville
Floyd, J. E. (1 A-AH)	North Charleston	Garrison, J. K. (1 E-ME)	Piedmont
Floyd, W. C. (1 ChEn)*	Asheville, N. C.	Garrison, J. R. (1 E-ME)*	Calhoun Falls
Folger, M. Y. (4 Arch)	Newberry	Gaskin, J. M. (1 A-AH)*	Galivants Ferry
Folk, T. M. (2 TE)	Santurce, P. R.	Gaskins, L. O. (1 E-EE)*	Spartanburg
Font, G. P. (4 Arch)	Plainfield, N. J.	Gasque, E. R. (2 TM)	Edgefield
Ford, T. D. (1 Arch)	Teaneck, N. J.	Gasque, W. D. (3 CrEn)	Columbia
Forgett, V. J. (3 IndEd)	Gaffney	Gasque, C. T. (2 AgEn)	Yemassee
Fortanbary, A. W. (1 E-ME)*	Gaffney	Gatch, J. M. (4 Agron)	Coward
Fortanbary, E. R. (3 EE)	Greenville	Gause, J. R. (4 EE)	Myrtle Beach
Foster, F. E. (2 EE)	Woodruff	Gause, N. F. (1 E-ME)*	Beaufort
Foster, M. H. (4 ME)	Union	Gay, N. F. (2 TM)	Rutherfordton, N. C.
Foster, R. E. (2 TM)	Spartanburg	Geer, W. P. (2 TM)	Columbia
Foster, T. D. (G TC)	Liberty	Geiger, W. N. (3 Arch)	—
Fowler, C. M. (2 TM)	Campobello	Gemas, W. O. (1 Ed)*	LaBelle, Pa.
Fowler, J. F. (1 E-EE)*	—		—

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Gentile, R. M. (3 ME).....	Brooklyn, N. Y.	Greene, J. M. (2 TM).....	Greenville
Gentry, C. F. (1 Arch)*.....	Greenville	Greene, J. W. (2 Ed).....	Union
Gentry, R. V. (1 VAE)*.....	Summerton	Greer, J. B. (2 Arch).....	Swansea, Mass.
George, E. M. (2 TM).....	Rock Hill	Greer, J. E. (2 CE).....	Greenville
George, J. S. (2 ME).....	Laurens	Greer, L. R. (2 CrEn).....	Anderson
George, L. R. (3 EE).....	Hazleton, Pa.	Greer, M. C. (1 Arch).....	Swansea, Mass.
George, M. M. (1 E-ME).....	Laurens	Gregg, C. G. (1 IndEd).....	Pineville
Gerald, E. L. (4 VAE).....	Loris	Gressette, T. P. (1 CrEn)*.....	St. Matthews
Gerald, T. R. (3 Agron).....	Loris	Griffin, C. E. (2 TE).....	Forest City, N. C.
Gerken, R. G. (2 EE)*.....	Savannah, Ga.	Griffin, J. C. (1 E-ME)*.....	Travelers Rest
Gibbons, W. H. (1 IndMgt)*.....	Hartsville	Griffin, R. W. (1 Arch)*.....	Dillon
Gibson, B. R. (2 CE).....	Newberry	Griffith, B. D. (1 E-EE)*.....	Aiken
Gibson, F. A. (4 TE).....	Easley	Griffith, P. F. (2 Pre-Med).....	Elberton, Ga.
Gibson, H. L. (4 ME).....	Brevard, N. C.	Groover, R. J. (1 E-EE)*.....	Florence
Gibson, J. G. (3 A&S).....	Taylors	Gross, R. C. (2 ME).....	Richburg
Gibson, M. W. (1 A)*.....	Richburg	Grover, D. L. (1 Ed)*.....	Brownsville, Pa.
Gibson, W. W. (2 ME).....	Greenville	Gruber, R. D. (2 A-Dairy)—	St. Clair Shores, Mich.
Giles, J. R. (2 TE).....	Charleston Heights	Gryder, R. W. (4 ME).....	Rock Hill
Gilfillin, E. A. (2 EE).....	Greenville	Guerard, E. A. (1 TM)*.....	Columbia
Gillespie, C. D. (4 ArEn).....	Anderson	Guerry, F. D. (4 ME).....	North Charleston
Gillespie, G. D. (2 IndMgt).....	Anderson	Guinn, G. C. (1 E-TE)*.....	Camden
Gillespie, J. W. (G)*.....	Walhalla	Gunter, W. C. (2 Ed)*.....	Wagener
Gilmer, W. W. (1 E-ME)*.....	Mt. Pleasant	Guy, E. D. (G Ed).....	Abbeville
Gilmore, W. D. (4 Pre-Med).....	Walhalla	Guy, J. L. (1 Pre-Med).....	Abbeville
Gilpin, D. W. (1 IndEd).....	Connellsville, Pa.	Gwinn, M. L. (1 E-ME)*.....	Joanna
Gilreath, J. A. (2 Arch).....	Greenville	Haddock, E. H. (2 CE).....	Kingstree
Gilreath, J. W. (4 CE).....	Belvedere	Hagen, P. A. (3 EE).....	Charleston
Gilreath, S. N. (3 TE).....	Piedmont	Hagler, W. D. (2 EE).....	Spartanburg
Glasgow, J. C. (2 TE).....	Conway	Hair, R. H. (Unc)*.....	Clemson
Glasscock, E. P. (4 AgEn).....	Rock Hill	Hair, S. M. (3 VAE).....	White Pond
Glasscock, J. S. (2 AgEn).....	Catawba	Haley, J. C. (G Ent)*.....	Florence
Gleaton, M. B. (2 TE).....	Columbia	Hall, C. E. (1 E)*.....	Travelers Rest
Glenn, D. L. (2 EE).....	Jenkinsville	Hall, L. A. (1 TM).....	Greenville
Glenn, S. A. (1 Arch).....	Greenville	Hall, R. K. (2 TM).....	Greenwood
Glenn, W. T. (1 E-ME)*.....	Jenkinsville	Hall, R. Lee (1 ChEn).....	Liberty
Glennon, W. L. (2 ME).....	Long Beach, N. Y.	Hall, R. Lester (2 CrEn).....	Ninety Six
Gobble, R. D. (1 E-ME)*.....	Spartanburg	Hall, T. G. (2 EE).....	Highlands, N. C.
Goble, R. L. (1 E-TE)*.....	Pine Castle, Fla.	Ham, R. F. (2 EE).....	Florence
Godfrey, J. B. (2 Pre-Med).....	Woodruff	Ham, W. F. (2 AH).....	Florence
Godfrey, T. G. (3 CrEn).....	Greenville	Hambright, W. A. (2 EE).....	Blacksburg
Godshall, S. R. (1 IndMgt)*.....	Columbia	Hamby, J. M. (3 TM).....	Simpsonville
Godwin, C. L. (G VAE)*.....	Branchville	Hamilton, D. R. (1 IndMgt)*.....	Seneca
Goff, H. B. (3 EE).....	Columbia	Hamilton, J. E. (1 E-AgEn)*.....	Conway
Goff, J. E. (1 TM)*.....	Saluda	Hamilton, J. M. (Unc).....	Chester
Goforth, H. D. (1 Pre-Vet)*.....	Gaffney	Hammond, B. L. (3 AH).....	Modoc
Goin, R. C. (1 Ed)*.....	Verona, Pa.	Hammond, C. D. (2 IndMgt)*.....	Florence
Gooding, F. H. (4 CE).....	Clemson	Hammond, J. R. (4 IndEd).....	Newnan, Ga.
Gooding, R. W. (1 A).....	Clemson	Hammond, R. Hill (3 AH).....	Greenwood
Goodman, C. K. (2 AgEn)—	Silver Spring, Md.	Hammond, R. Holland, (1 IndMgt), Camden	
Gore, F. C. (2 A-AH).....	Myrtle Beach	Hampton, J. W. (2 ME).....	Belton
Gosa, J. W. (2 TM).....	Enoree	Hamrick, T. C. (4 TM).....	Cliffside, N. C.
Gossett, J. L. (1 TM).....	Woodruff	Hancock, S. W. (1 TM).....	Ruby
Gowan, D. R. (2 A-AH).....	Inman	Hand, J. M. (1 E)*.....	Easley
Grace, R. D. (1 Ed)*.....	McKeesport, Pa.	Hane, J. K. (2 ChEn).....	North Charleston
Graham, A. T. (PG Pre-Med).....	Walhalla	Haney, R. H. (4 TM).....	Canton, N. C.
Graham, C. E. (1 E-EE).....	Laurens	Hanley, A. C. (1 TM)*.....	Anderson
Graham, E. L. (3 ChEn).....	Kingstree	Hanna, H. A. (1 E-ME)*.....	Rock Hill
Graham, H. A. (2 ME).....	Toccoa, Ga.	Hannah, L. V. (2 EE).....	Pelzer
Graham, J. W. (4 CE).....	Woodruff	Hannon, G. D. (1 E)*.....	Travelers Rest
Granger, B. D. (1 Arch)*.....	Greenville	Harakas, N. K. (2 Chem).....	Greenville
Grant, C. E. (2 A-AH).....	Whitmire	Harbin, H. P. (2 CE).....	Anderson
Grant, R. C. (Unc)*.....	Anderson	Harden, D. (2 ME).....	Seneca
Grant, T. A. (2 TC).....	Laurens	Harden, J. C. (4 A&S).....	Columbia
Grant, T. D. (2 TC).....	Clemson	Hardin, J. K. (2 ME)*.....	Greensboro, N. C.
Gravely, E. G. (1 Pre-For)*.....	Seneca	Hardy, L. A. (1 E-EE)*.....	Gable
Graves, C. A. (PG ME).....	Due West	Harkey, C. L. (1 E-EE)*.....	Wadesboro, N. C.
Gray, C. J. (G TC).....	Clemson	Harley, R. G. (1 CrEn).....	Orangeburg
Gray, G. G. (1 CrEn)*.....	Greenville	Harley, W. S. (4 Ed).....	North Augusta
Gray, V. E. (G Chem)*.....	Guilford, N. C.	Harman, L. M. (3 Arch)—	Cedar Grove, N. J.
Grdjian, J. (1 IndMgt).....	Rilliton, Pa.	Harper, J. C. (1 E-EE)*.....	Martin
Green, H. B. (4 CE).....	Columbia	Harper, J. S. (1 E-ME).....	Lancaster
Green, J. B. (1 E-EE).....	Greenville	Harrell, A. L. (2 ME).....	Florence
Green, R. S. (1 IndMgt)*.....	Turbeville	Harrell, G. P. (1 CrEn)*.....	Florence
Greene, C. L. (1 E-TE)*.....	Thomson, Ga.	Harrelson, M. W. (1 E-CE)*.....	Fair Bluff, N. C.
Greene, C. M. (1 E-ME)*.....	Pickens	Harris, B. B. (2 IndEd).....	Blackville
Greene, E. H. (3 IndEd).....	St. Stephen		
Greene, H. F. (1 IndPhys).....	Greenville		

Name and Course	Address	Name and Course	Address
Harris, G. W. (1 E-EE)	Ridgeland	Herr, T. F. (1 Arch)	Arlington, Va.
Harris, H. H. (1 Arch)	Shelby, N. C.	Herron, R. H. (2 AgEn)	Starr
Harris, J. N. (1 E-ME)	Barnwell	Hetrick, J. P. (4 CE)	Anderson
Harris, R. A. (2 CrEn)	Walhalla	Heustess, J. C. (G Dairy)	Winnsboro
Harrison, C. L. (1 TM)	Greenwood	Hicks, B. L. (2 CE)	Timmons ville
Harrison, F. W. (1 CrEn)	Decatur, Ga.	Hicks, H. J. (1 E-TE)	Anderson
Harrison, J. D. (3 TM)	Greenwood	Hicks, J. D. (4 Agron)	Effingham
Harrison, J. R. (1 IndMgt)	Abbeville	Hicks, W. H. (2 CE)	Hartsville
Harrison, P. P. (3 TE)	Decatur, Ga.	Hicks, W. R. (1 E-ME)	Belton
Hart, J. W. (2 EE)	Chester	Hiers, F. (1 A-Agron)	Ehrhardt
Harter, W. T. (1 E-ME)	Ninety Six	Higby, M. J. (2 A&S)	Clemson
Hartsell, H. E. (2 CE)	Charlotte, N. C.	Higdon, G. P. (1 ChEn)	Charleston
Harvin, S. A. (3 AgEn)	Sumter	Hill, D. A. (4 ME)	Gaffney
Hase, S. G. (Unc)	Roanoke, Va.	Hill, G. A. (2 EE)	Timmons ville
Haskell, A. S. (1 A&S)	Clemson	Hill, H. L. (3 TM)	Toccoa, Ga.
Haskell, R. (1 E-ME)	Beaufort	Hill, J. G. (1 Chem)	Timmons ville
Hawes, R. L. (4 TC & TM)	Utica, N. Y.	Hill, J. R. (4 AH)	Abbeville
Hawkins, C. A. (1 E-EE)	Greenville	Hill, R. S. (3 A&S)	Anderson
Hawkins, G. A. (1 E-CE)	Taylors	Hill, S. G. (2 EE)	Moncks Corner
Hayden, T. E. (4 AH)	North	Hill, T. H. (1 E-EE)	Belton
Hayden, W. S. (1 E-EE)	Orangeburg	Hill, T. S. (2 IndMgt)	Aiken
Hayes, B. H. (1 IndPhys)	Converse	Hill, W. G. (2 Pre-Vet)	Abbeville
Hayes, B. M. (1 Arch)	Kings Mountain, N. C.	Hill, W. R. (1 IndMgt)	Greenville
Hayes, J. D. (1 E)	Anderson	Hiller, J. W. (4 Arch)	Greenville
Hayes, R. R. (1 TM)	Pickens	Hiller, L. G. (2 CE)	Columbia
Hayes, W. L. (1 E-EE)	Latta	Hills, C. C. (1 Pre-For)	Georgetown
Hays, F. S. (1 E-ME)	Abbeville	Hines, J. M. (3 A&S)	St. Petersburg, Fla.
Hazelwood, W. T. (1 E-TE)	Enoree	Hinson, K. E. (1 ChEn)	Varnville
Hazzard, W. J. (1 E-ME)	Lugoff	Hiott, J. M. (1 IndMgt)	Easley
Head, J. O. (2 TM)	Liberty	Hipp, J. F. (2 ArEn)	Newberry
Heath, G. A. (2 TM)	Chester	Hodge, C. R. (PG Arch)	Alcolu
Heath, O. F. (1 E-ME)	Aiken	Hoefler, R. F. (1 IndMgt)	Gainesville, Ga.
Heath, W. P. (4 TM)	Esmont, Va.	Hoffman, C. D. (1 E-CE)	Gastonia, N. C.
Heaton, H. K. (1 ChEn)	Summerville	Hoffman, G. V. (1 A)	North
Heaton, J. A. (3 ME)	Summerville	Hoffmeyer, H. G. (2 EE)	Florence
Hecht, C. W. (1 IndMgt)	Clairton, Pa.	Hogg, H. D. (1 E-EE)	Greenville
Hefner, J. R. (3 TE)	Hickory, N. C.	Hogg, J. D. (1 IndMgt)	Greenville
Hegler, W. B. (1 E-AgEn)	Lancaster	Hogner, R. P. (3 IndPhys)	Clemson
Heidtman, E. P. (2 EE)	Charleston	Holcombe, J. V. (4 TM)	Greenville
Helms, G. B. (1 IndMgt)	Aiken	Holder, R. T. (2 Pre-Med)	Spartanburg
Helton, J. T. (1 E)	Lenoir, N. C.	Holladay, W. F. (2 Ed)	Ft. Deposit, Ala.
Hembree, R. L. (1 IndMgt)	Anderson	Holland, B. F. (1 A-AH)	Fountain Inn
Hemphill, J. B. (1 E-CE)	Greenville	Holland, F. M. (1 A-AH)	Salters
Hendee, M. H. (3 IndMgt)	Jacksonville, Fla.	Holleman, S. H. (2 Ed)	Seneca
Henderson, D. B. (1 E-AgEn)	Chesnee	Holley, B. H. (2 TM)	Graniteville
Henderson, G. A. (4 EE)	Greenwood	Holliday, W. B. (1 E-EE)	Central
Henderson, G. M. (1 A-AH)	Moncks Corner	Holliday, W. F. (2 CE)	Piedmont
Henderson, J. C. (1 E-ME)	Greenville	Holling, R. H. (1 E-ME)	Charleston
Henderson, J. E. (1 Pre-For)	Moncks Corner	Hollingsworth, E. E. (1 E-EE)	Greenville
Henderson, R. P. (4 ME)	Charlotte, N. C.	Hollis, T. G. (1 CrEn)	Greenville
Henderson, W. N. (2 TM)	Greenville	Holloway, W. O. (1 Pre-Med)	Ware Shoals
Hendricks, D. R. (2 ME)	Easley	Holmes, P. J. (2 AgEn)	Beaufort
Hendricks, H. D. (1 E-EE)	Pendleton	Holmes, R. L. (4 TE)	Naval Base
Hendricks, L. A. (4 TE)	West Columbia	Holroyd, F. L. (1 Arch)	Greenwood
Hendricks, P. S. (1 CrEn)	Pickens	Holstein, R. H. (1 Arch)	Monetta
Hendricks, R. C. (2 EE)	Belton	Holt, T. T. (1 A&S)	Loris
Hendricks, R. K. (1 Arch)	Easley	Holzschuh, B. P. (4 TM)	Teaneck, N. J.
Hendrix, C. N. (2 IndEd)	Spartanburg	Hood, W. P. (4 Pre-Med)	Hickory Grove
Hendrix, R. M. (1 ChEn)	Myrtle Beach	Hooper, D. L. (1 TM)	Anderson
Hendrix, W. B. (1 A-AH)	Prosperity	Hooper, R. E. (1 IndMgt)	Piedmont
Hendrix, W. H. (2 EE)	Greenville	Hooton, N. A. (2 CrEn)	New Carlisle, Ind.
Hennies, W. B. (2 Arch)	Columbia	Hoover, F. J. (2 Chem)	Greenville
Henry, J. S. (1 Pre-For)	Greenville	Hoover, R. E. (1 VAE)	Scranton
Henslee, J. M. (1 VAE)	Seneca	Hopkins, A. H. (G Ent)	Florence
Hensley, R. D. (1 E-ME)	North Augusta	Horne, C. H. (2 EE)	Oak Ridge, Tenn.
Henson, A. T. (3 CrEn)	Columbia	Hornsby, H. M. (1 E-ME)	Charleston
Herbert, T. J. (G Chem)	Portsmouth, Ohio	Horton, C. C. (1 Pre-Med)	Greenville
Herman, R. E. (1 ChEn)	Charleston Heights	Horton, W. C. (3 AH)	Ridgeland
Herndon, C. H. (2 CE)	Greenwood	Houston, H. V. (1 TM)	Charlotte, N. C.
Herndon, J. E. (4 CE)	Fountain Inn	Howard, A. S. (G Phys)	Simpsonville
Heron, G. H. (1 ChEn)	Jenkinsville	Howard, H. B. (4 CrEn)	Taylors
		Howard, John M. (1 IndMgt)	Albany, Ga.
		Howard, John M., Jr. (1 A)	Lake Butler, Fla.
		Howe, C. E. (1 E-EE)	Chester
		Howell, H. B. (4 AgEn)	Spartanburg

Name and Course	Address	Name and Course	Address
Howell, R. E. (G Ent)°°-°-	Pikeville, N. C.	Jarrett, D. M. (2 IndMgt)°-	Lincoln, N. C.
Howell, W. W. (1 Arch)°	Athens, Ga.	Jarvis, K. G. (4 A&S)	Westwood, N. J.
Hromyak, J. J. (1 IndMgt)°-	North Bessemer, Pa.	Jatz, N. P. (1 E-ME)	Easley
Hubbard, A. R. (1 E-EE)°	Sumter	Jaudon, H. S. (4 TM)	Elberton, Ga.
Hubbard, R. C. (G VAE)°°	Bamberg	Jayroe, J. P. (1 CrEn)	Georgetown
Hubbard, W. L. (1 E-EE)°	Hardeeville	Jefferies, J. R. (3 Arch)	Myrtle Beach
Hudson, A. H. (4 Dairy)	Bluffton	Jenkins, G. H. (3 AgEn)	Conway
Hudson, H. E. (1 E-AgEn)°	Conway	Jenkins, H. S. (G Hort)	Wadmalaw Island
Hudson, J. D. (1 E-AgEn)°	Beaufort	Jenkins, R. A. (3 CE)	Anderson
Hudson, W. A. (1 Ed)	North Charleston	Jenkins, T. C. (1 IndMgt)°	Anderson
Hudson, W. D. (1 E-ME)°	Beaufort	Jenness, C. M. J. (3 ME)	Greenville
Huey, R. B. (4 TC)	Cheraw	Jennings, H. E. (2 TM)	Newberry
Huff, H. C. (1 E-CE)	Woodruff	Jennings, J. H. (1 IndMgt)	Greenville
Huff, J. R. (G Agron)	Piedmont	Jensen, R. A. (2 EE)	Tampa, Fla.
Huffman, T. B. (3 VAE)	Cameron	Jewell, J. R. (1 TM)	Spartanburg
Huggin, B. A. (1 E-ME)°	Greenville	Johnson, A. C. (1 TM)	Marion
Huggins, E. M. (2 A-AH)	Dillon	Johnson, A. R. (1 E-AgEn)°-	Groveland, Fla.
Huggins, H. M. (1 E-CE)°	Nichols	Johnson, B. L. (1 E-ME)	Greenville
Huggins, N. L. (4 Agron)	Johnsonville	Johnson, C. (3 EE)	Charleston Heights
Hughes, C. G. (2 CE)	Greenville	Johnson, C. D. (1 A-Agron)	Conway
Hughes, G. F. (2 CE)	Bamberg	Johnson, D. L. (2 CE)	Folly Beach
Hughes, H. H. (1 E-EE)-	Charlottesville, Va.	Johnson, D. T. (1 E-ME)°	Aiken
Hughes, J. K. (1 IndMgt)	Sumter	Johnson, F. D. (G VAE)°°	Saluda, N. C.
Hughes, W. A. (1 E-TE)°	Bamberg	Johnson, F. M. (G AH)°°	Manning
Humphrey, C. H. (2 ME)	Georgetown	Johnson, F. S. (1 IndMgt)°	Huger
Humphries, J. F. (4 ME)	Columbia	Johnson, G. A. (2 EE)	Asheville, N. C.
Humphries, J. L. (4 ME)	Sumter	Johnson, H. J. (1 VAE)°	Galivants Ferry
Humphries, R. N. (1 E-ME)°	Columbia	Johnson, J. B. (1 IndMgt)°	Ellijay, Ga.
Hund, P. W. (1 E-EE)°	Charleston	Johnson, J. E. (2 TM)	Union
Hunt, F. M. (2 CE)	Seneca	Johnson, K. M. (2 AgCh)-	Bloomington, Ga.
Hunt, L. E. (4 Pre-Med)	Winnsboro	Johnson, L. W. (1 E-EE)°	Rock Hill
Hunt, R. B. (4 TM)	Taylors	Johnson, M. H. (G VAE)°°	Hemingway
Hunter, B. G. (1 E-EE)°	Pendleton	Johnson, M. L. (1 Ed)°	Huger
Hunter, C. P. (4 TM)	Pickens	Johnson, R. A. (1 E-ME)	Columbia
Hunter, G. C. (1 E-ME)°	Norway	Johnson, R. Benjamin (1 TC)	Charleston
Hunter, H. H. (4 TM)	Central	Johnson, R. Blanding (G AgEc)°°	Clemson
Hunter, J. C. (1 E-TE)°-	Green Mountain, N. C.	Johnson, R. G. (2 A-AH)	Nichols
Hunter, J. E. (1 E-ME)°	Lancaster	Johnson, R. M. (1 E-EE)°-	Charlotte, N. C.
Hunter, M. A. (4 EE)	Patrick	Johnson, S. T. (4 Ed)	Rock Hill
Hunter, O. D. (1 VAE)	Central	Johnson, T. M. (2 EE)	Sumter
Hunter, W. L. (1 E-CE)°	Columbia	Johnson, W. G. (2 IndMgt)-	Jonesville, N. C.
Hunter, W. R. (3 IndMgt)	Rock Hill	Johnston, A. M. (4 Pre-Med)	St. George
Hursey, R. E. (3 ME)	Savannah, Ga.	Johnston, G. E. (1 E-ME)	Estill
Huskey, E. P. (1 TM)	Spartanburg	Jones, B. J. (2 Ed)°	Central
Hutchinson, J. E. (1 E-ME)°	Rock Hill	Jones, B. R. (3 TE)	Greenville
Hutchinson, T. E. (2 A&S)	Rock Hill	Jones, D. R. (1 E-EE)°	Greer
Hutson, W. W. (1 IndEd)	Orangeburg	Jones, E. B. (3 IndPhys)	Columbia
Hutto, H. R. (3 TE)	Rock Hill	Jones, F. A. (2 Ed)	Warsaw, N. C.
Hutton, G. A. (1 E-EE)	Greer	Jones, F. O. (1 E-CE)	Greenwood
Hyder, A. G. (2 IndMgt)	Anderson	Jones, F. R. (1 E-EE)°	Greenville
Hyder, J. D. (4 AH)	Anderson	Jones, G. R. (2 IndMgt)	Belton
Inabinet, B. C. (3 TM)	Columbia	Jones, G. T. (1 IndMgt)	Carteret, N. J.
Inglesby, A. J. (1 Pre-Vet)°	Greenville	Jones, H. A. (3 AgEn)	Nichols
Inman, A. J. (1 E)	Augusta, Ga.	Jones, J. Dewey (2 IndMgt)	Greenville
Irby, J. M. (1 E)°	Pelzer	Jones, J. Dexter, (1 E-ME)°	Ware Shoals
Ireland, P. E. (1 E-ME)°	Rock Hill	Jones, James H. (3 EE)	Anderson
Isaacs, O. F. (1 E-EE)	Chester	Jones, Joe H. (1 E-EE)°	Fountain Inn
Israel, C. M. (1 ChEn)°	Roebuck	Jones, J. M. (3 EE)	South Bend, Ind.
Ivester, J. C. (1 Pre-Med)	Walhalla	Jones, L. C. (2 IndMgt)	Augusta, Ga.
Ivey, W. D. (2 A-AH)	Hemingway	Jones, M. L. (1 IndMgt)°	Augusta, Ga.
Jackson, B. E. (2 A&S)	Clemson	Jones, R. C. (1 IndMgt)	Laurens
Jackson, D. E. (2 EE)	Laurens	Jones, R. P. (1 A-AgEc)	Kershaw
Jackson, J. E. (4 AH)	York	Jones, R. R. (2 TM)	Moncks Corner
Jackson, J. H. (2 Pre-For)	Sumter	Jones, R. T. (1 ChEn)°	Charleston Heights
Jackson, J. L. (1 E-CE)°	Fair Bluff, N. C.	Jones, T. O. (3 AH)	Yonges Island
Jackson, M. H. (2 TE)	Fairforest	Jones, W. C. (1 A-Agron)°	Sumter
Jackson, R. Edward (2 Pre-Med)	Manning	Jones, W. D. (1 E-TE)	Asheville, N. C.
Jackson, R. Eugene (3 Arch)	Lancaster	Jones, W. H. (2 Pre-Med)	Moncks Corner
Jackson, S. H. (4 VAE)	Manning	Jones, W. M. (2 EE)	Honea Path
Jackson, W. M. (4 ArEn)	Washington, D. C.	Jordan, J. R. (2 TM)	Greenville
James, H. F. (1 IndMgt)°	Liberty	Jordan, K. G. (3 TC)	Anderson
Jameson, H. D. (2 ME)	Easley	Jordan, L. E. (1 Pre-Med)°	St. George

STUDENT REGISTER

263

Name and Course

Address

Jordan, L. M. (2 AgEn) Union
 Jordan, R. P. (1 Ed) Florence
 Judy, A. E. (1 E-EE)* Orangeburg
 Julian, L. A. (2 CE) Easley
 Julian, T. H. (1 E-EE)* Jacksonville, Fla.
 Jumper, H. M. (2 ME) Gastonia, N. C.
 Junkins, A. D. (2 EE)* Anderson
 Justus, D. M. (2 EE)* East Flat Rock, N. C.
 Kaltenbach, L. T. (1 Ed) Clairton, Pa.
 Kay, J. D. (2 A-AgEc) Seneca
 Kay, W. G. (1 E-ME) Allendale
 Kay, W. H. (1 E)* Swansboro, N. C.
 Kay, W. P. (3 Pre-Med) Belton
 Kea, J. M. (1 TM)* Hartsville
 Kearse, R. E. (1 ChEn) Ehrhardt
 Keasler, J. C. (1 TM)* Mebane, N. C.
 Keaton, G. W. (1 E-ME)* Seneca
 Keaton, J. C. (3 VAE) Anderson
 Keeley, W. J. (1 Arch)* Flushing, N. Y.
 Keene, R. D. (1 E-ME)* Spartanburg
 Keith, E. A. (1 A&S) Pickens
 Keith, W. J. (1 E-ME)* Pickens
 Kekas, D. H. (1 E-EE)* Spartanburg
 Keller, L. J. (G Chem)* Charleston Heights
 Keller, W. A. (2 CE) Cameron
 Kellers, F. (3 EE) Ft. Huachuca, Ariz.
 Kellett, W. B. (1 E-CE)* Belton
 Kelley, A. E. (1 TM)* Kings Mountain, N. C.
 Kelley, C. M. (2 A-AgEc) Lake City
 Kelley, J. R. (3 AgEn) Greenville
 Kelley, T. E. (1 E-ME) Lake City
 Kelly, F. I. (2 ME) Sumter
 Kelly, K. H. (3 CE) Philadelphia, Pa.
 Kelly, R. E. (1 Pre-For) Sumter
 Kelly, T. P. (1 Pre-Med) Central
 Kemp, J. R. (1 E-ME) Denmark
 Kennedy, R. H. (1 Arch)* Columbia
 Kennedy, W. C. (2 IndMgt) Spartanburg
 Kennerly, W. L. (2 A-Hort) Swansea
 Kenney, G. N. (3 EE) Anderson
 Kern, J. G. (4 EE) Congers, N. Y.
 Kernells, C. E. (1 E-EE) Anderson
 Kernels, B. R. (1 ChEn)* Anderson
 Kernels, P. W. (1 E-EE)* Anderson
 Kerr, G. H. (1 VAE)* Williamston
 Kersey, R. N. (G EE)* Sandy Springs
 Kestner, R. L. (1 Ed)* Saltville, Va.
 Ketner, D. Q. (2 A-Dairy)* Murphy, N. C.
 Key, C. H. (G Agron)* Edgefield
 Key, S. D. (1 A-Agron) Columbia
 Keys, R. A. (2 IndMgt) Anderson
 Kilgore, C. T. (1 TM)* Anderson
 Kirkpatrick, D. (2 EE) Woodruff
 Kim, D. W. (1 E-TE) Seoul, Korea
 Kimbrell, W. T. (2 ME) Greenville
 Kimmell, B. M. (2 TM)* Saluda
 Kinard, G. R. (2 ChEn) Fairfax
 Kinard, W. S. (4 Ent) Springfield
 King, C. E. (2 EE) Simpsonville
 King, C. H. (1 E-EE) Belton
 King, D. J. (1 E-EE) Greenville
 King, J. A. (1 E-ME)* Maplewood, N. J.
 King, J. C. (G Agron)* Marion
 King, J. D. (3 Pre-Med) Anderson
 King, James L. (4 Poul) St. George
 King, John L. (2 A-AgEc) Central
 King, J. M. (1 E-CE)* Abbeville
 King, J. R. (4 TM) Westminster
 King, N. P. (1 A&S)* Anderson
 King, R. S. (1 E-EE)* Abbeville
 Kingsmore, M. B. (2 CE)* Buffalo
 Kingsmore, R. S. (1 E-EE)* Buffalo
 Kinion, N. F. (1 IndMgt) Greer
 Kinney, H. K. (1 E-TE) Newberry
 Kirby, H. D. (1 E)* Seneca

Name and Course

Address

Kirby, L. B. (3 IndPhys) Newry
 Kirby, S. D. (1 E-EE)* Spartanburg
 Kirk, R. D. (2 ME) Heath Springs
 Kirkland, C. D. (3 TE) Georgetown
 Kirkland, K. L. (3 ME) Anderson
 Kirkpatrick, W. C. (2 TM) Richburg
 Kiser, B. R. (1 E-ME)* Rock Hill
 Kissam, J. B. (2 A&S) Georgetown
 Kissam, L. C. (1 E-CE)* Orangeburg
 Kite, R. O. (1 A-Dairy)* Jacksonville, Fla.
 Kizer, G. R. (4 VAE) St. George
 Klinger, A. R. (1 E-AgEn)* Liberty
 Knight, D. E. (1 E-EE)* Bennettsville
 Knight, G. P. (4 VAE) Harleyville
 Knight, O. W. (3 EE) Kershaw
 Knight, R. E. (1 A)* Honea Path
 Knobloch, J. B. (1 ChEn) Florence
 Knott, H. W. (1 TM)* Henderson, N. C.
 Koenig, H. (2 CrEn) Inwood, N. Y.
 Koon, F. K. (1 ChEn)* Columbia
 Koon, R. D. (1 E-ME)* Spartanburg
 Koone, E. L. (2 TM) Greenwood
 Kowalski, C. M. (4 AgEn) Anderson
 Kowalski, P. R. (4 A&S) Anderson
 Kraft, G. A. (2 EE) Greenville
 Krauss, R. (2 A-AH)* Staten Island, N. Y.
 Kuemmerer, H. R. (4 Chem) Walhalla
 Kullman, B. J. (1 E-CE)* New Orleans, La.
 Lackey, R. T. (1 E-ME) Charleston Heights
 Laird, S. E. (1 ChEn)* Newberry
 LaMarche, L. J. (3 ChEn) Naval Base
 Lambert, G. F. (2 ME) Maryville, Tenn.
 Lambeth, E. S. (1 IndMgt) Augusta, Ga.
 Lancaster, H. A. (2 CrEn) Jonesville
 Lancaster, M. S. (1 E-ME) Jonesville
 Land, R. F. (1 IndMgt)* Salem
 Landrum, L. C. (1 E-EE) Cedartown, Ga.
 Lane, G. R. (2 A-AgEc) Mullins
 Lane, R. P. (1 A-AgEc) Marion
 Lanford, G. R. (3 ME) Spartanburg
 Lanford, H. L. (3 ME) Woodruff
 Langdale, C. W. (2 A-Agron) Walterboro
 Langdon, C. H. (Unc)* Clemson
 Langley, B. R. (2 CE) Greenville
 Langston, J. C. (4 Ent) Hartsville
 Langston, M. G. (3 AH) Timmons ville
 Lanham, S. A. (1 E-ME)* Charleston
 Laraway, W. D. (4 Poul)* Dravosburg, Pa.
 Latham, M. C. (G Zool) North Augusta
 Latimer, R. C. (3 TM) Florence
 Latimer, W. M. (1 CrEn)* Columbia
 Latta, T. S. (4 ArEn) Charleston
 Lavell, M. J. (1 E-ME) Brevard, N. C.
 Lavender, A. C. (2 Pre-Vet) Macon, Ga.
 Lawrence, F. B. (1 Pre-Med)* Plasterco, Va.
 Lawrence, F. D. (1 Ed)* Plasterco, Va.
 Lawrence, J. F. (1 E-CE)* Lake City
 Lawson, D. L. (1 IndMgt)* Charlotte, N. C.
 Lawson, W. L. (4 ME) Charlotte, N. C.
 Layman, R. E. (Unc)* Clemson
 Layton, P. (4 A&S) Wilmington, Del.
 Leake, Z. G. (1 IndMgt) Greenville
 Leamy, G. H. (3 ChEn) New York, N. Y.
 Lee, D. D. (3 Dairy) Dillon
 Lee, D. E. (1 Pre-Med)* Coward
 Lee, H. C. (2 TM)* Spartanburg
 Lee, H. E. (G EE)* Clemson
 Lee, J. D. (4 CE) Piedmont
 Lee, K. M. (1 Ed)* Heflin, Ala.
 Lee, R. S. (3 AgEn) Sumter
 Lee, S. D. (G Ed)* South Miami, Fla.
 Leggett, W. L. (2 Arch) Sumter

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
LeGrand, L. (2 TC).....	Greenville	Luke, D. B. (3 AgCh)...	North Augusta
Leitner, W. A. (4 ChEn).....	Clemson	Lundy, G. F. (3 Arch).....	Denmark
LeMaster, R. T. (1 A)*.....	Gaffney	Lundy, W. G. (Unc)*.....	Clemson
Lenk, G. A. (4 ArEn).....	Pittsburgh, Pa.	Lunsford, R. D. (4 IndPhys).....	Greenwood
Lenning, J. C. (1 ChEn).....	Greenwood	Luzzi, W. J. (1 Arch)*.....	Nutley, N. J.
Lennon, T. P. (1 Pre-For)*.....	Anderson	Lyerly, L. L. (1 VAE)*.....	Johnsonville
Leonard, W. C. (4 EE)*.....	Johnson City, Tenn.	Lykes, J. M. (2 TM)*.....	Arcadia
		Lynch, J. A. (1 TC)*.....	Inman
Leseth, R. E. (1 IndMgt)*.....	Glen Rock, N. J.	Lynch, T. M. (2 EE)*.....	Anderson
		McAlhany, R. E. (4 ArEn).....	Charleston
Leslie, J. W. (1 IndMgt)*.....	Easley	McAlister, K. C. (4 TE).....	Anderson
Lesslie, J. W. (2 Arch).....	Rock Hill	McAulay, W. F. (2 Arch).....	Columbia
Leviner, G. W. (1 E-EE)*.....	McBee	McBrain, J. L. (1 TC)*.....	Port Washington, N. Y.
Lewis, B. E. (1 A-AgEc).....	Dillon		
Lewis, C. D. (2 A-AgEc).....	Branchville	McCabe, C. B. (4 AgEn).....	San Antonio, Fla.
Lewis, H. D. (4 CE).....	Batesburg	McCahan, A. R. (1 A&S)*.....	Greenville
Lewis, J. W. (2 TM)*.....	Spartanburg	McCall, H. K. (1 A)*.....	Walhalla
Lewis, R. M. (2 A-AH).....	Myrtle Beach	McCall, J. D. (1 E-AgEn)*.....	Central
Lewis, S. S. (2 VAE).....	Leesville	McCall, J. T. (4 IndEd).....	Toxaway, N. C.
Lewis, W. R. (2 TM)*.....	Moncks Corner	McCall, L. R. (1 E-ME)*.....	Pendleton
Lifrage, H. O. (4 TM).....	Salters	McCanless, J. R. (1 IndMgt)*.....	Asheville, N. C.
Ligon, J. T. (3 AgEn).....	Easley		
Lilienthal, R. E. (1 CrEn)*.....	Charleston	McCarley, W. K. (2 TM)*.....	Westminster
Limehouse, B. I. (2 Pre-Med).....	Charleston	McCarter, B. H. (1 E-EE)*.....	Clover
Linder, C. A. L. (1 E-EE)*.....	Smoaks	McCarter, H. L. (2 AgEn).....	Tryon, N. C.
Lindler, B. J. (3 VAE).....	Saluda	McCarter, M. W. (G Bot)*.....	Clover
Lindler, C. M. (4 AgEn).....	Blair	McCarter, S. M. (1 VAE)*.....	York
Lindler, C. O. (1 TM).....	Columbia	McCary, W. H. (1 ChEn)*.....	Greenwood
Lindley, A. A. (1 E-CE)*.....	Brevard, N. C.	McCaskill, W. R. (G Ent)*.....	Clemson
Lindley, B. A. (1 A)*.....	Newberry	McClain, D. M. (2 TE).....	LaFrance
Lindsay, H. (PG CE).....	Greenville	McClellan, W. D. (3 TE).....	Anderson
Lindsay, J. H. (3 TM).....	Clifton	McClelland, R. A. (3 TE).....	Spartanburg
Lindsay, R. S. (1 E)*.....	Gastonia, N. C.	McClintock, W. H. (3 TM).....	Rock Hill
Lingerfelt, H. K. (1 TM)*.....	Morristown, Tenn.	McClure, J. W. (3 CE).....	Anderson
		McClure, R. C. (Unc)*.....	Taylors
Link, H. B. (1 Arch)*.....	McCormick	McClure, T. D. (1 E)*.....	Orangeburg
Linton, W. T. (3 TM).....	Columbia	McComb, J. C. (G VAE)*.....	Orangeburg
Lisenby, R. B. (4 AH).....	Chesterfield	McConnell, J. C. (1 TM).....	Sandy Springs
Litaker, R. M. (2 EE).....	Leaksville, N. C.	McCormic, W. M. (2 TM).....	Sumter
Little, E. L. (2 CE).....	Greenville	McCord, D. M. (Unc)*.....	Montreal, Canada
Little, F. J. (1 ChEn)*.....	Greenville	McCormick, H. W. (1 IndMgt)*.....	Charleston
Little, T. (2 ME).....	Greenville		
Littlejohn, C. T. (1 TM).....	Greenwood	McCormick, V. P. (1 E-EE)*.....	Ward
Littlejohn, D. M. (Unc)*.....	Clemson	McCown, G. S. (2 ME).....	Richland
Littlejohn, T. W. (4 AgEn).....	Ruffin, N. C.	McCown, J. M. (4 TE).....	Richland
Livert, H. R. (2 EE)*.....	Hendersonville, N. C.	McCown, W. H. (1 E)*.....	Williamston
		McCoy, H. H. (2 CE).....	Greenville
Livingston, D. T. (1 E-EE)*.....	Woodford	McCoy, J. P. (1 E-EE).....	Bishopville
Livingston, L. H. (1 E-EE)*.....	North	McCrackan, M. L. (Unc)*.....	Clemson
Lloyd, O. W. (G AgEc)*.....	Edgefield	McCravy, E. P. (1 Ed)*.....	Easley
Loadholt, N. B. (1 E-AgEn)*.....	Fairfax	McCraw, L. G. (4 CE).....	Sandy Springs
Logue, D. H. (2 TC).....	Cheraw	McCuen, B. H. (3 Pre-Med).....	Greenville
Lohman, R. O. (2 ME)*.....	Hendersonville, N. C.	McCurry, J. R. (1 ChEn).....	Honea Path
		McDaniel, B. T. (3 Dairy).....	Pickens
Lollis, B. E. (1 Pre-Med)*.....	Greenville	McDaniel, D. R. (3 AgEn).....	Lake City
Lollis, O. L. (2 EE)*.....	Belton	McDaniel, G. W. (2 CE).....	Greenville
Long, B. D. (Unc)*.....	Clemson	McDaniel, L. R. (1 VAE)*.....	Pickens
Long, G. E. (1 E-EE)*.....	Georgetown	McDaniel, O. H. (3 EE).....	Orangeburg, N. Y.
Long, J. E. (4 TM).....	Greenville	McDaniel, R. C. (4 AH).....	Carlisle
Long, M. C. (1 IndMgt)*.....	Anderson	McDaniel, R. L. (2 ME).....	Greenville
Longshore, H. B. (1 E-ME).....	Greenwood	McDonald, H. W. (1 E-CE)*.....	Greenville
Longshore, J. R. (2 IndMgt).....	Fort Mill	McDonald, O. B. (1 ChEn)*.....	Charleston Heights
Lookabill, C. R. (2 IndEd).....	Asheville, N. C.		
Looper, W. R. (1 E-EE).....	Pelzer	McDonald, W. C. (1 E-CE).....	Westminster
Lopata, R. J. (1 E-EE)*.....	Shenandoah, Pa.	McDowell, F. L. (3 ChEn).....	Reidsville, N. C.
Lott, J. E. (1 E-EE).....	North Augusta		
Love, H. G. (PG Arch).....	Columbia	McElrath, W. L. (1 E-EE)*.....	Canton, N. C.
Love, O. F. (1 Pre-For)*.....	Savannah, Ga.	McElveen, C. P. (4 ME).....	Sumter
Love, W. W. (1 IndMgt)*.....	Rock Hill	McElveen, H. A. (1 E-CE)*.....	Florence
Lovell, J. K. (1 A-AH)*.....	Gresham	McElveen, H. D. (2 ME).....	Columbia
Lowery, E. K. (2 Ed).....	Pageland	McElveen, W. P. (2 Arch).....	Columbia
Loyley, J. G. (2 Arch).....	Greenville	McFadden, J. G. (1 E-EE).....	Rock Hill
Lubkin, W. F. (1 IndMgt)*.....	Beaufort	McGarity, M. C. (4 Arch).....	Spartanburg
Lucas, C. D. (1 TM).....	Atlanta, Ga.	McGee, H. G. (1 Arch)*.....	Hartsville
Lucas, F. E. (1 Arch).....	Charleston	McGee, R. G. (2 IndMgt)*.....	Clinton
Lucas, S. L. (3 ME).....	Hickory, N. C.	McGee, W. L. (1 Pre-Vet)*.....	Starr
Luetjen, P. G. (3 EE)*.....	Queens Village, N. Y.	McGill, D. M. (2 AgEn).....	Anderson
		McGill, H. B. (Unc)*.....	Greenville

Name and Course	Address	Name and Course	Address
McGougan, J. M. (2 TC)	Bethune	Martin, J. E. (1 E-AgEn)°	Dillon
McGraw, W. C. (3 Pre-Med)	Anderson	Martin, J. F. (2 EE)	Laurens
McGuinn, J. H. (2 TC)	Chester	Martin, J. F. (2 ME)	Williamston
McKay, W. S. (1 E-CE)°	Pittsburgh, Pa.	Martin, M. B. (1 IndMgt)	Helena, Ga.
McKellar, P. A. (2 Arch)	Bennettsville	Martin, O. D. (3 TM)	Easley
McKellar, R. A. (3 Dairy)	Asheboro, N. C.	Martin, R. L. (1 A-Poul)	West Union
McKenzie, H. A. (4 Chem)	Savannah, Ga.	Martin, W. B. (1 A-AgEc)°	Strother
McKenzie, K. F. (1 A)°	Estill	Masneri, R. P. (1 E)°	California, Pa.
McKeown, H. A. (2 ME)	Chester	Mason, A. F. (4 CE)	Greenville
McKibben, H. A. (1 TM)°	Fort Mill	Mason, R. (1 TM)°	Big Spring, Texas
McKie, M. T. (2 IndMgt)	North Augusta	Massey, W. H. (3 TM)	Greenville
McKie, R. H. (4 IndEd)	Edgefield	Massingill, W. B. (2 EE)	Easley
McKinnell, H. W. (2 ME)	Charlotte, N. C.	Masters, D. W. (2 EE)	Greenwood
McKittrick, S. H. (2 Pre-Med)	Greenville	Matenkoski, R. A. (1 E-CE)°	New Stanton, Pa.
McLaughlin, F. E. (4 AH)	Florence	Mathewes, C. W. (3 ME)	Charleston
McLaurin, H. M. (1 A-AH)	Wedgefield	Mathews, P. D. (1 CrEn)°	Reading, Mass.
McLean, J. D. (1 E-ME)°	Spartanburg	Mathis, R. N. (3 AH)	Gaffney
McLees, C. F. (1 A&S)°	Clemson	Matt, C. J. (1 IndMgt)°	Jeannette, Pa.
McLees, C. T. (1 Pre-Med)°	Clemson	Matthews, C. H. (1 VAE)°	Scranton
McLees, R. B. (1 E-CE)°	Sumter	Matthews, J. E. (2 Arch)	Bishopville
McLellan, H. C. (G AgEc)	Dillon	Matthews, J. L. (2 ME)	Rock Hill
McLendon, L. J. (2 Ed)	Albany, Ga.	Matthews, J. M. (1 Ed)	Lake City
McMeekin, A. H. (3 AH)	Monticello	Mattison, R. M. (2 ChEn)	Donalds
McMillan, R. K. (3 Arch)	Spartanburg	Mattos, T. M. (4 Ed)	Greenville
McMillan, W. J. (G Agron)°°	Florence	Maul, G. H. (2 IndMgt)	Charleston
McMillan, W. W. (3 Ent)	Florence	Mauldin, E. L. (4 A&S)	Easley
McNatt, F. B. (4 Chem)	Clemson	Mauldin, J. E. (G CE)	Anderson
McPherson, J. B. (1 E-ME)°	Waterloo	Maxwell, B. L. (Unc)°°	Greenville
McSwain, D. D. (1 A-Poul)°	Shelby, N. C.	Maxwell, C. A. (1 ChEn)°	Aiken
McSwain, M. D. (1 E-CE)°	Lanford	Maxwell, C. R. (4 TM)	Greenville
McTeer, T. B. (1 E-EE)°	Hampton	Maxwell, H. R. (1 E-ME)°	Johnston
McTeer, T. F. (1 A-Dairy)	Hartsville	Mayer, E. W. (1 A)°	Newberry
McWhorter, R. W. (1 TM)	Liberty	Mayfield, J. T. (1 E-EE)	Marietta
Maccione, J. A. (1 IndMgt)	Greenville	Mayfield, T. L. (2 CrEn)	Anderson
Mace, B. J. (2 ME)°	Sumter	Mays, R. L. (2 Ed)°	Water Valley, Miss.
MacIntosh, E. (G Ed)°°	Clemson	Meador, D. J. (1 E-CE)	Atlanta, Ga.
Mack, F. W. (2 A-Dairy)	North	Meador, N. D. (1 Ed)	Atlanta, Ga.
Mackey, F. C. (1 TM)	Bennettsville	Meares, H. H. (1 IndMgt)	Charlotte, N. C.
Mackey, R. R. (4 TM)	Anderson	Medlin, J. O. (1 E-ME)°	Greenville
MacMillan, D. N. (4 AH)	Edgewater, N. J.	Meggett, W. G. (1 E-AgEn)°	Charleston
Madden, J. A. (1 TM)	Laurens	Melton, B. R. (4 EE)	Lancaster
Madden, J. L. (3 AgEc)	Greenville	Melton, D. W. (1 VAE)	Lake City
Madden, S. L. (1 IndMgt)°	Greenwood	Mentz, J. F. (2 CE)	Lindenhurst, N. Y.
Madden, W. L. (4 TM)	Laurens	Merchant, J. L. (1 E-EE)°	—
Maddox, C. F. (3 A&S)	Anderson		Charleston Heights
Magann, W. F. (1 E-EE)°	Camden, N. J.	Merck, J. K. (2 AgEn)	Bishopville
Mahaffey, C. R. (1 E-TE)	Spartanburg	Meredith, B. R. (2 VAE)	Anderson
Mahaffey, D. C. (1 TM)°	Gramling	Merrill, R. N. (1 E)°	Myrtle Beach
Mahaffey, J. E. (2 Ed)	Liberty	Messervy, L. W. (2 EE)	Charleston
Mahaffey, L. A. (2 TM)	Gramling	Metz, F. E. (4 ArEn)	Anderson
Mahon, W. E. (4 Arch)	Greenville	Metz, W. C. (3 EE)	Clemson
Malphrus, O. D. (1 E-CE)°	Ridgeland	Meyers, D. R. (4 TE)	Hinsdale, Ill.
Manger, B. E. (1 Arch)°	Myrtle Beach	Middleton, H. W. (1 Arch)	Sumter
Manigault, E. L. (PG CrEn)°	—	Middleton, L. S. (2 VAE)	Jefferson
	Fairmont, W. Va.	Miley, D. H. (2 Arch)	Walhalla
Manly, C. P. (1 E-CE)°	Greenville	Miley, C. F. (G VAE)°°	Greeleyville
Mann, B. G. (1 E-EE)°	Pickens	Millard, W. A. (2 CE)	Sumter
Mann, W. K. (2 Arch)	Kingsport, Tenn.	Millen, F. S. (1 A-Dairy)°	Hartsville
Manning, C. B. (2 EE)	Abbeville	Millen, W. H. (1 E-AgEn)°	Chester
Manning, W. M. (2 ChEn)	Clio	Miller, C. D. (2 EE)	Charleston
Marazza, R. J. (3 IndMgt)	Bovard, Pa.	Miller, C. E. (4 ChEn)	Salters
Marbert, J. A. (1 E)°	Edgefield	Miller, D. C. (1 E-CE)°	Greenville
Marbert, J. B. (2 CE)	Greenwood	Miller, E. N. (1 Pre-Vet)°	Columbia
Marchant, J. (2 EE)	Harleyville	Miller, G. A. (2 IndMgt)°	Hinckley, Ill.
Marlowe, W. H. (PG VAE)	McClellanville	Miller, J. A. (2 TE)	Walhalla
Marscher, A. A. (1 E-ME)°	Beaufort	Miller, J. C. (4 ME)	Greenville
Marsh, S. J. (1 Pre-Med)°	Hemingway	Miller, J. H. (3 Pre-Med)	Honea Path
Marsh, W. R. (1 E-CE)°	Union	Miller, J. M. (1 A)	Bennettsville
Marshall, A. H. (4 AH)	Heath Springs	Miller, R. L. (1 ChEn)	Nashville, Tenn.
Marshall, A. S. (1 Arch)°	Heath Springs	Miller, R. S. (2 CE)	Westminster
Marshall, C. N. (1 E-ME)	Sumter	Miller, S. J. (4 A&S)	Belton
Martin, B. F. (3 EE)	Lancaster	Miller, S. M. (2 VAE)	Andrews
Martin, D. (1 VAE)°	Williamston	Miller, T. G. (1 E-CE)°	Greenville
Martin, E. R. (1 A)°	Tallahassee, Fla.	Miller, V. L. (1 IndEd)	New Ellenton
Martin, F. G. (1 IndMgt)	Westminster	Miller, W. K. (4 ArEn)	Aiken
Martin, F. H. (1 E-ME)°	Fort Mill	Miller, W. W. (2 CE)	Jacksonville, Fla.
Martin, F. W. (3 A&S)	Bennettsville	Mills, C. W. (1 TE)	Darlington
Martin, G. D. (4 TM)	Charlotte, N. C.	Mills, D. L. (1 E-EE)°	Greensburg, Pa.
Martin, H. C. (1 A-Dairy)°	Liberty		

Name and Course	Address	Name and Course	Address
Mills, E. C. (2 Arch)	Columbia	Mullinax, W. A. (3 TM)—	Fort Walton Beach, Fla.
Mills, J. R. (2 ME)	Hopeville, Ga.	Mullins, J. A. (G AgEn)	Blackville
Mills, W. C. (1 E-AgEn)	Blackstock	Mullins, J. G. (1 E-EE)	Spartanburg
Millwood, H. T. (1 E-CE)	Buffalo	Mullis, H. J. (1 IndMgt)	Hartsville
Mims, R. L. (1 VAE)	Greeleyville	Mullis, J. W. (1 E-EE)	Lancaster
Mishoe, T. M. (4 Agron)	Tabor City, N. C.	Mullis, T. M. (3 ME)	York
Mishoe, T. N. (2 A-AH)	Greeleyville	Mundy, R. M. (1 ChEn)	Ware Shoals
Mitchell, R. D. (2 Arch)	Belton	Munford, R. E. (1 IndPhys)	Anderson
Mitchell, R. W. (1 E-AgEn)	Spartanburg	Munn, F. W. (1 TM)	Rock Hill
Mixon, M. B. (1 Pre-Vet)	Orangeburg	Murdaugh, M. P. (3 A&S)	Islandton
Mobley, J. R. (1 E-EE)	Lancaster	Murphree, H. W. (3 CE)	Troy, Ala.
Mock, H. M. (1 E-CE)	Augusta, Ga.	Murphree, J. F. (2 A-AgEc)	Six Mile
Moisson, A. R. (2 ChEn)	Greenville	Murphree, J. H. (G Ed)	Tamassee
Mocrief, C. E. (2 IndMgt)	Moultrie, Ga.	Murphy, C. B. (4 AH)	Greenwood
Monroe, J. H. (1 ChEn)	Clemson	Murphy, J. A. (G AgEn)	Starr
Monroe, J. R. (1 ChEn)	Clearwater	Murray, T. A. (2 A-AgEc)	Red Bank, N. J.
Monroe, K. M. (3 EE)	Erwin, Tenn.	Murray, T. F. (2 CrEn)	Washington, D. C.
Montgomery, B. L. (2 EE)	Spartanburg	Musselwhite, P. A. (1 ChEn)	Liberty
Montilla, F. (3 Arch)	Santurce, P. R.	Muzzey, W. M. (2 CE)	Philadelphia, Pa.
Monts, D. D. (2 A-Agron)	Prosperity	Myers, J. A. (1 E-EE)	Greer
Moody, B. C. (1 E-ME)	Greenville	Myers, L. C. (2 IndMgt)	Reevesville
Moody, G. H. (4 AgEc)	Dillon	Nabors, R. L. (3 EE)	Talladega, Ala.
Moody, J. R. (4 AgEn)	Dillon	Nalley, W. M. (1 E-ME)	Greenville
Moore, A. C. (3 ME)	Anderson	Nance, L. E. (3 A&S)	Galivants Ferry
Moore, A. P. (1 E-ME)	Savannah, Ga.	Nash, R. A. (1 E-ME)	Hamlet
Moore, C. L. (1 E-ME)	Sumter	Nasim, M. I. (1 TM)	Karachi, W. Pakistan,
Moore, D. A. (4 AgEc)	Lake City	Nasworthy, G. A. (3 ME)—	Winter Park, Fla.
Moore, D. G. (1 E-CE)	Olanta	Nations, J. (1 A)	Central
Moore, F. E. (1 Pre-Med)	Belvedere	Neal, J. A. (2 Arch)	Greenville
Moore, F. M. (2 ME)	Greenville	Neel, R. C. (1 A)	Silverstreet
Moore, George A. (1 A&S)	Anderson	Neely, C. E. (4 CE)	Charlotte, N. C.
Moore, Grady A. (1 E-CE)	Charleston	Neely, W. J. (1 IndMgt)	Rock Hill
Moore, G. M. (2 EE)	Seneca	Nelms, K. (3 TM)	Dewyrose, Ga.
Moore, H. C. (4 AgEn)	Inman	Nelson, J. B. (4 TE)	Spartanburg
Moore, J. L. (4 TM)	Chester	Nelson, L. G. (1 A&S)	Fountain Inn
Moore, J. W. (1 E-CE)	Taylors	Nettles, B. L. (4 EE)	Charleston
Moore, L. E. (1 E-ME)	McConnells	Nettles, E. W. (1 A-Agron)	Sumter
Moore, L. W. (2 A-Dairy)	Bradley	New, F. H. M. (3 EE)	Greenville
Moore, M. S. (G CrEn)	Charleston	New, W. K. (3 AgEn)	Greenville
Moore, R. L. (4 CE)	Charlotte, N. C.	Newell, P. P. (4 TE)	Brookline, Mass.
Moore, R. P. (4 TM)	Pendleton	Newman, T. C. (2 CrEn)	Canton, N. C.
Moore, R. S. (1 Arch)	Asheville, N. C.	Newman, W. H. (2 ME)	Charleston
Moore, S. L. (Unc)	Clemson	Newsom, R. M. (1 E-AgEn)	Bishopov
Moore, S. R. (3 AgEn)	Dalzell	Newton, J. R. (2 TC)	McColl
Moore, W. L. (4 TE)	Pendleton	Nichols, C. S. (4 Ent)	East Point, Ga.
Moormann, H. M. (1 Arch)—	Charleston Heights	Nichols, F. M. (2 ChEn)	Savannah, Ga.
Morell, T. J. (1 E-EE)	Huntington, W. Va.	Nichols, J. L. (1 Pre-Med)	Sumter
Morgan, B. G. (1 E-EE)	Salisbury, N. C.	Nicholson, H. L. (1 VAE)	Westminster
Morgan, G. D. (4 TM)	Greenville	Nicholson, W. M. (2 Ed)	Salem
Morgan, H. E. (G IndEd)	Salisbury, N. C.	Nimmons, T. B. (1 A-Dairy)	Seneca
Morina, N. R. (1 Pre-Med)	Paulsboro, N. J.	Nivens, D. M. (1 E-EE)	Spartanburg
Morris, F. W. (2 IndMgt)	Detroit, Mich.	Niver, W. W. (1 ChEn)	Joanna
Morrison, A. S. (1 IndMgt)	Hartsville	Nix, J. W. (2 TE)	Catechee
Morrison, J. A. (3 CE)	Maplewood, N. J.	Nixon, T. F. (1 E-CE)	Anderson
Morrison, J. E. (2 Dairy)	Iva	Nolan, M. P. (G VAE)	Marion
Morrow, C. H. (2 EE)	Clover	Norman, C. W. (1 E-ME)	Greenville
Morrow, S. J. (1 Pre-Med)	Inman	Norris, B. C. (1 E-TE)	Central
Morrow, W. F. (1 Arch)	Greenville	Norris, B. J. (1 A&S)	Easley
Morton, C. W. (3 ME)	Beaufort	Norris, D. E. (3 TM)	Greenville
Moschovis, E. P. (G Chem)	Mytilene, Greece	Norris, G. F. (2 A-AH)	Taylors
Moseley, J. K. (2 CE)	Greenville	Norris, W. H. (1 A-Dairy)	Belton
Moseley, M. C. (4 TM)	Greenville	Norton, W. L. (3 EE)	Miami, Fla.
Moseley, T. M. (1 IndMgt)	Atlanta, Ga.	Norwood, B. L. (4 Agron)	McBee
Mosely, W. E. (4 ME)	Charleston	Norwood, J. M. (2 VAE)	Iva
Moser, C. E. (1 Ed)	Graham, N. C.	Noyes, W. H. (1 Pre-Med)	Westminster
Moss, J. V. (1 Pre-Med)	Gaffney	Nunnally, B. R. (1 IndMgt)	Anderson
Mosteller, C. T. (3 IndEd)	Gaffney	Nunamaker, J. L. (1 A&S)	Manning
Motes, M. M. (G AgEc)	Clemson	Nutt, G. H. (3 Pre-Med)	Clemson
Motz, A. (1 E-TE)	Habersham, Ga.	Oates, H. C. (1 CrEn)	York
Moulton, G. D. (4 TC)	Ridgewood, N. J.	Oates, W. M. (2 TM)	Spartanburg
Mulkey, C. W. (2 ChEn)	Greenwood	Obrij, J. H. (1 IndMgt)	Ridgewood, N. J.
Mull, B. R. (3 ME)	Greenville	O'Cain, H. A. (1 A-AH)	Orangeburg
Mullinax, D. E. (2 IndPhys)	Central	O'Dell, W. R. (4 TM)	Newnan, Ga.
Mullinax, J. M. (1 IndMgt)	Georgetown	O'Dillon, R. A. (1 Ed)	Shannon, Ga.
		Ogden, J. W. (2 Pre-Vet)	Crescent Beach
		Ogus, G. J. (1 TM)	Brooklyn, N. Y.

Name and Course Address

O'Hear, J. (3 Arch) Charleston
 Oliver, E. F. (1 E-EE) Moncks Corner
 Oliver, R. K. (1 E) Newry
 Olson, E. S. (G TC) Clemson
 Olson, L. G. (1 Ed) Decatur, Ga.
 O'Quinn, J. J. (2 VAE) Ridgeland
 Orr, F. H. (1 TM) Union
 Osborne, H. E. (2 ME) Fort Mill
 O'Shields, F. M. (1 E-CE) Pickens
 Osteen, J. L. (2 EE) Greenville
 Outlaw, J. F. (2 ME) Hartsville
 Outz, C. H. (4 Poul) Fair Play
 Ouzts, E. E. (1 IndMgt) Ninety Six
 Owen, B. L. (1 E-ME) Laurinburg, N. C.
 Owen, J. D. (3 EE) Norris
 Owens, L. E. (1 A-AH) Columbia
 Owens, R. S. (3 CE) Orangeburg
 Owens, S. L. (3 IndMgt) Greenville
 Owens, W. M. (1 TM) Gibson, N. C.
 Pace, D. W. (2 ME) Pickens
 Pace, H. D. (1 IndMgt) Pickens
 Pace, K. M. (1 IndMgt) North Charleston
 Pace, L. F. (3 CE) Pickens
 Paden, W. R. (2 ME) Clemson
 Padgett, A. L. (2 AgEn) Aiken
 Padgett, D. H. (4 A&S) Walterboro
 Padgett, G. L. (1 E-ME) McCormick
 Padgett, J. G. (1 E-ME) McCormick
 Padgett, J. W. (1 IndMgt) Trenton
 Padgett, L. N. (1 E-CE) —

Charleston Heights

Padgett, S. M. (G VAE) Walterboro
 Page, A. D. (1 E-AgEn) Marion
 Page, B. G. (3 VAE) Tabor City, N. C.
 Page, B. O. (1 E-EE) Dillon
 Page, H. W. (2 VAE) Nichols
 Pagliel, J. A. (2 Ed) Clairton, Pa.
 Painter, B. A. (4 TM) Arcadia
 Painter, J. E. (2 EE) Gaffney
 Painter, R. H. (2 EE) Greenville
 Palagonia, C. M. (3 ArEn) —

New York, N. Y.

Palles, N. L. (4 EE) Florence
 Palmer, J. W. (2 AgEn) Clemson
 Pappas, E. P. (3 Arch) Jacksonville, Fla.
 Paradeses, S. D. (1 IndEd) Columbia
 Parillo, J. A. (2 Arch) W. Catsaugua, Pa.
 Park, L. M. (3 EE) Winnsboro
 Parker, A. J. (2 Arch) Spartanburg
 Parker, J. E. (1 VAE) Bethune
 Parker, R. M. (4 A&S) Lancaster
 Parker, R. R. (1 E-EE) Anderson
 Parker, R. S. (3 EE) Spartanburg
 Parker, W. M. (4 Arch) Spartanburg
 Parkerson, L. D. (1 E-ME) —

Gastonia, N. C.

Parkins, J. H. (2 IndMgt) Greenville
 Parlin, C. S. (1 E-EE) Darlington
 Parnell, L. (1 IndMgt) Anderson
 Parris, H. G. (2 EE) Gaffney
 Parris, J. W. (1 A-Agron) Campobello
 Parris, R. E. (1 E-ME) Brevard, N. C.
 Parrish, A. B. (1 VAE) Saluda
 Parrish, H. L. (1 E-CE) Anderson
 Parsons, H. S. (1 E-ME) Johnston
 Parsons, L. P. (3 Hort) Georgetown
 Passinos, B. (4 ME) Greer
 Pate, C. T. (4 TM) Bennettsville
 Pate, W. L. (2 Ed) Lamar
 Patrick, R. E. (4 TM) Gaffney
 Patterson, A. M. (2 TM) Central
 Pattie, B. D. (4 ChEn) London, England
 Patton, I. M. (1 E-EE) Fountain Inn
 Paxton, E. H. (1 E-CE) Seneca
 Paxton, I. H. (1 IndMgt) Decatur, Ga.
 Pearce, B. M. (2 Arch) Fort Mill
 Pearce, H. E. (1 IndMgt) McColl
 Pearce, R. L. (1 E-EE) Kankakee, Ill.
 Pearson, B. H. (1 E-EE) Florence

Name and Course Address

Peck, P. E. (4 CE) Vero Beach, Fla.
 Peck, S. L. (1 E-ME) Spartanburg
 Peebles, W. P. (1 Arch) Greenville
 Pendarvis, A. H. (1 Pre-Vet) Dorchester
 Pensabene, J. F. (1 E-EE) —

Brooklyn, N. Y.

Peoples, E. D. (1 Arch) —
 — South Pittsburg, Tenn.
 Pepper, K. G. (1 E-ME) Easley
 Perez, O. (2 IndMgt) New York, N. Y.
 Perkins, H. H. (1 E-TE) Elloree
 Perna, A. J. (3 ChEn) Brooklyn, N. Y.
 Petersen, D. H. (G Ent) Pendleton
 Pettigrew, A. A. (1 E-ME) Calhoun Falls
 Pettigrew, J. L. (4 ME) Starr
 Pettus, J. L. (2 EE) Clover
 Pettus, R. D. (PG IndEd) Imman
 Petty, J. B. (1 VAE) Chesnee
 Phelps, F. C. (1 E-ME) Joppa, Md.
 Philbeck, P. D. (1 TM) Caroleen, N. C.
 Philhower, L. S. (G AgEc) —

Williamsburg, Va.

Phillips, B. C. (3 ME) Wellford
 Phillips, B. K. (1 TM) Gaffney
 Phillips, C. J. (1 E-EE) Gaffney
 Phillips, E. S. (1 IndMgt) —

Harrisonburg, Va.

Phillips, J. R. (1 A-Dairy) Piedmont
 Phillips, N. R. (3 AgEn) Easley
 Phillips, R. G. (1 E-ME) Walhalla
 Phillips, R. L. (3 ArEn) Anderson
 Phillips, T. B. (3 TM) Elkin, N. C.
 Philpott, E. R. (1 CrEn) —

New Orleans, La.

Phipps, D. P. (1 E-ME) Columbia
 Pickelsimer, H. M. (4 EE) Piedmont
 Pickens, H. A. (4 CE) Anderson
 Pierce, G. W. (3 TM) Greenville
 Pike, A. F. (1 ChEn) Sumter
 Pilgrim, J. M. (1 A&S) Anderson
 Pilot, J. S. (1 Ed) Rankin, Pa.
 Pinckney, J. A. (2 Arch) Greenville
 Pinckney, J. E. (3 Arch) Walterboro
 Pipkin, J. E. (1 E-EE) Laurel Hill, N. C.
 Pittman, J. B. (1 E-ME) Piedmont
 Pittman, J. F. (G AgEc) Seneca
 Pittman, W. K. (1 VAE) Dillon
 Pitts, A. H. (4 AH) Fort Motte
 Pitts, C. I. (2 Arch) Ware Shoals
 Pitts, D. L. (1 E-EE) Greenville
 Pitts, F. M. (1 E-ME) Rock Hill
 Pitts, J. D. (4 ME) Rock Hill
 Pitts, W. M. (1 Chem) Laurens
 Platt, B. A. (2 Arch) Ocean Drive
 Player, D. W. (1 A-Agron) Elliott
 Player, F. L. (1 E-ME) Greeleyville
 Plowden, I. V. (3 TE) Sumter
 Plowden, S. E. (2 A-Hort) Manning
 Plumblee, H. E. (4 EE) Greer
 Podlesney, W. R. (1 Pre-For) —

Floral Park, N. Y.

Polhemus, W. L. (4 TC) St. Andrew, Fla.
 Ponder, R. D. (1 IndMgt) Easley
 Ponds, J. J. (2 ArEn) Ashton
 Ponds, L. W. (1 A-Dairy) Ashton
 Poole, E. A. (1 E-AgEn) North
 Poore, G. D. (1 E-CE) Liberty
 Poore, T. C. (4 TM) Williamston
 Porcher, J. P. (4 CE) Charleston
 Porter, J. F. (2 Arch) Winnsboro
 Poston, M. L. (PG VAE) Hyman
 Potts, C. W. (1 E-ME) Fort Mill
 Powell, D. M. (1 E-ME) Saluda
 Powell, G. W. (2 A-AH) Williston
 Powell, H. R. (1 Ed) Seneca
 Powell, J. T. (1 A-AH) West Union
 Powell, R. S. (3 TC) Kingstree
 Powell, S. B. (1 IndMgt) Kingstree
 Powell, W. R. (1 E-ME) Anderson

Name and Course	Address	Name and Course	Address
Powers, A. K. (2 Arch).....	Columbus, Ga.	Reeves, T. B. (1 IndMgt)°.....	Piedmont
Powers, D. A. (1 E-ME)°.....	Lamar	Reid, J. L. (3 IndPhys).....	Campobello
Powers, K. W. (1 TM)°.....	Stonington, Me.	Reid, T. P. (PG)°°.....	Walhalla
Powers, W. O. (2 CE)°.....	Timmons ville	Reinhold, F. W. (3 TM).....	Lombard, Ill.
Pratt, B. B. (2 TM).....	Liberty	Rennerfeldt, D. D. (2 CE).....	Anderson
Prause, W. M. (1 TM).....	Charleston	Renwick, W. H. (1 E-TE)°.....	Greenville
Prescott, J. C. (4 VAE).....	Ridgeland	Revis, R. G. (3 TM).....	Pendleton
Presley, R. F. (1 A-AH).....	Spartanburg	Reynolds, J. M. (4 AH).....	Sumter
Pressley, T. A. (1 Chem)°.....	Biltmore, N. C.	Reynolds, R. E. (1 A-AH)°.....	Timmons ville
Pressley, T. B. (1 A-Dairy).....	Lowrys	Reynolds, R. G. (1 E-ME)°.....	Harrisburg, Ill.
Pressley, W. B. (2 A-AgEc).....	Biltmore, N. C.	Rhem, C. F. (1 A-Agron).....	Greer
Price, C. Daniel (1 E-ME)°.....	Andrews	Rhem, L. F. (2 A-AgEc).....	Georgetown
Price, C. David (3 EE).....	Greenville	Rhinehart, J. D. (3 TM).....	Inman
Price, J. H. (4 ArEn).....	Florence	Rhodes, L. T. (1 TM)°.....	Walhalla
Price, O. T. (4 VAE).....	Ridge Spring	Rhyne, J. L. (1 E-EE)°.....	Spartanburg
Price, R. B. (4 CE).....	Burton	Rice, E. A. (4 ME).....	Charleston Heights
Pridmore, W. K. (1 Ed)°.....	Fort Mill	Rice, S. M. (4 AgEn).....	Allendale
Priester, A. U. (4 Ed).....	LaGrange, Ga.	Richardson, A. P. (1 Pre-For)°.....	Columbia
Priester, H. R. (2 ChEn).....	Fairfax	Richardson, E. D. (1 VAE)°.....	Gresham
Priester, W. L. (4 Dairy).....	Bamberg	Richardson, F. A. (2 Pre-Med).....	Seneca
Printup, D. T. (1 Pre-Med)°.....	N. Augusta	Richardson, H. G. (1 ChEn)°.....	Lancaster
Pritchard, F. G. (1 TM).....	Sumter	Richardson, Jimmy A. (3 AgEn).....	Lancaster
Proctor, E. R. (1 Arch).....	Greenwood	Richardson, John A. (1 A-AH)°.....	Garden City
Proffitt, J. C. (2 ME).....	Greenville	Richardson, M. K. (3 ME).....	Gastonia, N. C.
Prosser, J. R. (1 A-Agron)°.....	Effingham	Richardson, S. (1 Ed)°.....	Hawkinsville, Ga.
Pruitt, J. W. (3 Hort).....	Due West	Richardson, W. H. (3 TE).....	Greenville
Pruitt, R. M. (1 A&S)°.....	Anderson	Richardson, W. L. (2 EE).....	Toccoa, Ga.
Puckhaber, W. F. (2 Arch).....	Charleston	Richey, C. G. (3 A&S).....	Ware Shoals
Pugh, R. D. (2 CE).....	Greer	Richey, J. R. (G Ed)°°.....	Clemson
Pulliam, L. F. (1 TM).....	Greenville	Richey, R. M. (2 EE).....	Baltimore, Md.
Purvis, W. J. (4 TM).....	Esmont, Va.	Richey, W. B. (1 A-AH).....	Greenville
Puryear, E. F. (3 TM).....	Cheraw	Rickenbaker, L. D. (1 E-ME)°.....	St. George
Putnam, R. W. (2 ME).....	Greenville	Ridge, D. E. (1 IndMgt)°.....	Honea Path
Putnam, D. M. (2 Arch).....	Laurens	Ridgill, J. O. (1 Arch)°.....	Manning
Quattlebaum, D. E. (2 A-Dairy).....	Rock Hill	Rietdorf, R. G. (1 IndMgt)°.....	Sumter
Query, J. E. (1 E-CE)°.....	Lyman	Rigby, W. J. (1 E-EE)°.....	Kingstree
Quinones, J. U. (3 Arch).....	Santurce, P. R.	Riggins, W. H. (4 ArEn).....	Greenville
Rabon, C. H. (1 A)°.....	Lugoff	Rikard, A. N. (1 E-ME)°.....	North Charleston
Rabon, J. D. (1 E-ME)°.....	Aynor	Riley, F. M. (1 VAE)°.....	Orangeburg
Raftelis, J. M. (2 IndMgt).....	Georgetown	Rimmer, A. J. (1 A&S)°.....	Clemson
Ragsdale, B. L. (4 Dairy).....	Belton	Rimrodt, L. K. (4 TM).....	Walhalla
Raines, J. B. (1 A-AgEc).....	Johnston	Ripley, E. G. (1 E-EE)°.....	Greenville
Raines, J. M. (1 E-ME)°.....	Landrum	Riser, J. W. (3 VAE).....	Bowman
Rainey, T. B. (2 IndMgt).....	Anderson	Rivers, E. D. (2 CE).....	Chesterfield
Ramage, W. S. (4 AH).....	Laurens	Rivers, M. E. (4 CE).....	Hampton
Ramey, P. E. (1 E-EE)°.....	Charlotte, N. C.	Rives, W. J. (1 E-ME)°.....	Greenville
Rampey, E. C. (1 ChEn)°.....	Columbia	Roache, B. E. (G Ed)°°.....	Pelzer
Rampey, F. D. (1 E-EE).....	Piedmont	Robards, W. T. (1 E-CE)°.....	Greenwood
Rampey, J. M. (1 IndMgt).....	Central	Robbins, D. K. (1 E-EE)°.....	Blacksburg
Ramsey, R. H. (3 AgEn).....	Brevard, N. C.	Roberson, C. E. (1 A&S)°.....	Concord
Randall, T. E. (2 ME).....	Greenville	Roberts, B. L. (4 AH).....	Chester
Rast, B. M. (1 A-AH).....	Cameron	Roberts, C. D. (3 IndEd).....	York
Rast, W. J. (3 CE).....	Greenville	Roberts, J. C. (3 Agron).....	Columbia
Rauton, R. M. (1 A-AH).....	Ridge Spring	Roberts, J. M. (1 ChEn)°.....	Waterville
Ravenel, R. H. (2 ME).....	Sanford, Fla.	Roberts, J. R. (2 A-Dairy).....	Greenville
Rawl, J. H. (1 IndMgt).....	Spartanburg	Roberts, James W. (1 A-AH)°.....	Lexington
Rawl, W. B. (4 ME).....	Spartanburg	Roberts, John W. (4 AgEn).....	Greenville
Ray, O. C. (1 Ed)°.....	Townville	Roberts, W. R. (1 A)°.....	Williamston
Ray, S. F. (4 CE).....	Townville	Roberts, W. S. (4 Hort).....	Gastonia, N. C.
Ready, G. L. (4 ME).....	Graniteville	Robinette, O. J. (2 CrEn).....	Pacolet
Reardon, R. D. (1 IndMgt)°.....	New Zion	Robinson, J. A. (1 A&S).....	Easley
Redd, L. M. (1 E-EE)°.....	Charleston	Robinson, J. C. (1 E-ME)°.....	Lancaster
Redfearn, J. H. (2 AgEn).....	Wadesboro, N. C.	Robinson, J. D. (2 CE).....	Enka, N. C.
Redman, E. M. (2 AgEn).....	Yonges Island	Rodgers, J. C. (1 A-AH).....	Williston
Reece, C. J. (3 EE).....	Waynesville, N. C.	Rogers, D. J. (1 IndEd).....	Cowpens
Reece, R. W. (3 ME).....	Pickens	Rogers, D. K. (1 IndPhys).....	Pelzer
Reed, A. J. (3 TM).....	Whitmire	Rogers, F. A. (1 E-ME)°.....	Seneca
Reed, W. L. (2 TE).....	Whitmire	Rogers, J. C. (4 VAE).....	Pelzer
Reel, E. S. L. (1 A&S)°.....	Spartanburg	Rogers, J. D. (3 Arch).....	Easley
Reel, F. M. (1 E-CE)°.....	Spartanburg	Rogers, J. H. (1 E-EE)°.....	Savannah, Ga.
Reese, C. E. (1 E-CE)°.....	Lynchburg, Va.	Rogers, J. K. (2 TM).....	Liberty
Reese, D. R. (2 EE).....	Greer	Rogers, J. L. (1 E-TE)°.....	Williamston
Reesor, T. W. (1 E-EE)°.....	Conway	Rogers, J. M. (1 E-AgEn)°.....	Mullins
Reeves, C. Q. (2 CE).....	Charleston	Rogers, J. T. (G Agron)°°.....	Florence
Reeves, J. B. (2 TM).....	Taylors	Rogers, M. D. (1 E-AgEn)°.....	Cowpens
Reeves, R. A. (1 E-EE)°.....	Seneca	Rogers, R. K. (1 E).....	Mullins
Reeves, R. P. (4 AgEn).....	Ravenel	Rogers, T. N. (1 A-AH).....	Fork
Reeves, S. J. (4 TM).....	Heath Springs		

Name and Course Address

Rogers, V. A. (4 Agron)..... Abbeville
 Rogers, W. P. (2 VAE)..... Mullins
 Rohdenburg, C. H. (2 EE)..... Iva
 Rollo, J. M. (1 E-ME)..... Jackson
 Roman, A. R. (2 TM)..... Columbia
 Roof, J. L. (1 Arch)..... Columbia
 Roper, N. A. (1 E-ME)..... Pickens
 Rosa, J. A. (1 IndMgt)..... Avonmore, Pa.
 Rostron, J. P. (G CE)..... Clemson
 Rountree, J. W. (1 CrEn)..... Augusta, Ga.
 Routh, W. E. (G Chem)..... Greensboro, N. C.

Rowe, C. B. (2 ChEn)..... Enterprise, Ala.
 Rowe, W. W. (4 AH)..... Summerton
 Rowell, D. E. (1 Ed)..... Lancaster
 Rowell, E. R. (2 A-AgEc)..... Trio
 Rowland, J. F. (1 Pre-For)..... Westminster
 Rowland, W. C. (1 ChEn)..... Hamer
 Royall, E. M. (1 IndMgt)..... Mt. Pleasant
 Rozendale, D. (3 CE)..... Lookout Mountain, Tenn.

Rubenstein, R. D. (4 ME)..... Hendersonville, N. C.

Rucker, G. F. (2 ME)..... Edgefield
 Rudin, L. E. (1 IndMgt)..... Atlanta, Ga.
 Rudolph, F. E. (3 Chem)..... Savannah, Ga.
 Ruiz, J. B. (4 IndEd)..... Asheville, N. C.
 Runge, L. T. (1 TM)..... Greenville
 Rush, A. L. (1 E-EE)..... Greenwood
 Rush, B. W. (1 TM)..... Glendale
 Rush, W. A. (2 TM)..... Greenwood
 Rush, W. G. (1 E-ME)..... Union
 Rutland, H. G. (1 ChEn)..... Fairfax
 Rutledge, T. T. (3 TM)..... Easley
 Rutz, A. E. (3 AgEc)..... Camaguey, Cuba
 Ryan, B. M. (4 Poul)..... Washington, D. C.
 Rye, A. B. (2 EE)..... Columbia
 Ryttenberg, H. J. (2 A-Ent)..... Sumter
 Sabin, G. E. (1 Pre-For)..... Charleston
 Salisbury, W. T. (1 A-AH)..... Summerville
 Salmond, W. C. (1 E-EE)..... Camden
 Salter, E. L. (4 CE)..... Walterboro
 Sammons, E. E. (1 E-EE)..... Taylors
 Sams, F. D. (1 E-ME)..... Clemson
 Sams, M. W. (4 AgEn)..... Walterboro
 Sanders, C. I. (4 Chem)..... Ninety Six
 Sanders, C. T. (2 TM)..... Richburg
 Sanders, D. E. B. (4 CE)..... Spartanburg
 Sanders, D. R. (1 TM)..... Union
 Sanders, E. R. (2 A-Hort)..... Frogmore
 Sanders, F. G. (2 TM)..... Jonesville
 Sanders, G. E. (1 IndMgt)..... Anderson
 Sanders, J. J. (1 E-EE)..... Anderson
 Sanders, R. B. (2 EE)..... Ninety Six
 Sanders, R. R. (4 TM)..... Callison
 Sanders, W. E. (1 E-CE)..... Anderson
 Sanders, W. R. (1 IndMgt)..... Rock Hill
 Sandifer, G. T. (1 A-AH)..... York
 Sandifer, R. L. (3 VAE)..... Florence
 Sansbury, J. R. (1 E-ME)..... Darlington
 Sartor, W. K. (1 A-Agron)..... Darlington
 Satcher, B. W. (1 A-AgEc)..... Johnston
 Satterfield, C. (1 E-CE)..... West Union
 Satterfield, D. G. (4 EE)..... Lyman
 Satterfield, J. W. (1 E-CE)..... Anderson
 Sauls, E. T. (2 Ed)..... Cordova
 Savacool, R. C. (2 ME)..... Bay Head, N. J.
 Sawyer, J. H. (G Chem)..... Clemson
 Scaife, J. O. (2 Pre-Vet)..... Myrtle Beach
 Scarborough, J. C. (1 E-AgEn)..... Lykesland
 Scarborough, R. G. (4 TM)..... Columbia
 Scarola, J. T. (1 Arch)..... Brooklyn, N. Y.
 Scarpa, E. A. (2 CrEn)..... Charleston
 Schaefer, W. B. (3 A&S)..... Toccoa, Ga.
 Schall, J. E. (1 E-ME)..... Aiken
 Schladensky, G. F. (3 ChEn)..... Huntingdon Valley, Pa.
 Schmidt, C. W. (3 ME)..... Clemson
 Schofield, M. O. (G Ed)..... Walhalla

Name and Course Address

Schumacher, P. D. (1 E-CE)..... Thomaston, Ga.
 Schumpert, J. W. (1 Arch)..... Newberry
 Schweinberg, R. S. (1 E-EE).....

Munhall, Pa.
 Scruggs, M. J. (1 E-EE)..... Greenville
 Scurry, J. F. (2 A-Dairy)..... Chappells
 Seaber, J. A. (2 ME)..... Blythewood
 Seanson, C. B. (G Agron)..... Saluda
 Sease, J. D. (2 CrEn)..... Columbia
 Sease, T. M. (2 Ed)..... Clinton
 Seay, E. B. (2 CE)..... Greenville
 Seay, E. F. (1 E-ME)..... Greenville
 Seel, G. W. (2 CE)..... North Charleston
 Seely, R. W. (1 E-ME)..... Rock Hill
 Segal, C. K. (3 ME)..... Rock Hill
 Segars, C. A. (1 A-AH)..... Oswego
 Sell, F. M. (G Chem)..... Anderson
 Sellers, E. E. (G Chem).....

Statesville, N. C.
 Sellers, J. E. (2 VAE)..... Cowpens
 Sexton, E. W. (1 IndMgt)..... Anderson
 Seymour, P. D. (1 Arch).....

New Rochelle, N. Y.
 Shaffer, J. K. (3 ChEn)..... Columbia
 Shands, E. B. (2 VAE)..... Spartanburg
 Shank, S. E. (2 TE)..... Mullins
 Sharp, W. K. (1 A-Dairy)..... Anderson
 Sharpe, J. C. (1 E-ME)..... Due West
 Sharpton, G. W. (1 E-TE)..... McCormick
 Shaver, R. J. (1 E-CE)..... Vienna, W. Va.
 Shaw, J. E. (4 ChEn)..... Florence
 Shaw, J. H. (1 TC)..... Pendleton
 Shaw, W. A. (1 E-ME)..... Greenwood
 Shealy, D. A. (1 Ed)..... Chester
 Shealy, T. L. (4 TM)..... Spartanburg
 Shedd, T. E. (2 A-Dairy).....

New Orleans, La.
 Shelley, D. A. (G AH)..... Barnwell
 Shelton, B. N. (1 E-ME)..... North Charleston
 Shelton, J. W. (2 EE)..... Greenville
 Shenman, L. E. (3 EE).....

Staten Island, N. Y.
 Sherard, R. C. (1 A-AH)..... Calhoun Falls
 Sherer, L. H. (1 Arch)..... Columbia
 Sheridan, L. L. (3 EE)..... Anderson
 Sheriff, H. G. (1 IndMgt)..... Lyman
 Sherrill, J. N. (2 ME)..... Spindale, N. C.
 Shigley, D. G. (2 EE)..... Miami, Fla.
 Shirlaw, E. J. (2 ME)..... Anderson
 Shirley, H. R. (1 ChEn)..... North Charleston
 Shirley, W. A. (1 E-EE)..... Honea Path
 Shockley, J. E. (1 E-EE)..... Union
 Shoemaker, G. H. (2 Arch)..... Odenton, Md.
 Shokes, E. L. (2 EE)..... Charleston
 Shoolbred, R. F. (4 CE)..... Columbia
 Shore, P. C. (2 A&S)..... Baldwin, Ga.
 Shriner, R. F. (2 EE)..... North Charleston
 Shuler, R. B. (1 E-AgEn)..... Elloree
 Shuman, C. M. (G Dairy)..... Lexington
 Shumpert, J. C. (2 EE)..... North
 Shumpert, P. K. (3 ME)..... North
 Sifford, D. D. (2 A-AH)..... Stanley, N. C.
 Sifford, P. P. (2 ME)..... Stanley, N. C.
 Sigg, F. G. (1 Arch)..... Columbia
 Simkins, W. G. (1 Arch).....

Wilmington, N. C.
 Simmons, C. E. (2 ME)..... Pickens
 Simmons, L. L. (1 E-EE)..... Greenville
 Simmons, W. C. (1 E-EE)..... Greenville
 Simms, B. R. (4 TM)..... Anderson
 Simons, M. (2 IndPhys)..... Summerville
 Simons, T. J. (2 IndMgt)..... Charleston
 Simpson, F. H. (4 TM)..... Anderson
 Simpson, W. L. (1 E-CE)..... Greenville
 Sims, R. C. (3 EE)..... Spartanburg
 Sinclair, J. C. (4 TE)..... Camden
 Sinclair, J. L. (2 EE)..... Camden
 Sinclair, J. P. (1 E-EE)..... Savannah, Ga.

Name and Course	Address	Name and Course	Address
Singletary, J. B. (G Agron)**	Coward	Sova, J. J. (1 Arch)*	Pottstown, Pa.
Singletary, W. R. (1 A-Agron)*	Scranton	Sox, D. K. (2 TM)	West Columbia
Singleton, J. L. (1 CrEn)	Pendleton	Sox, H. W. (4 TM)	West Columbia
Singleton, J. W. (1 Ed)*	Pickens	Spangenberg, R. B. (Unc)**	Clemson
Sistare, A. C. (1 TC)	Lancaster	Sparks, L. M. (G Ent)**	Clemson
Sistare, J. D. (3 AgCh)	Lancaster	Spearman, C. (1 TM)*	Westminster
Skelton, B. J. (3 Hort)	Clemson	Spearman, D. L. (2 TM)	Pelzer
Skelton, B. R. (4 A&S)	Clemson	Spearman, E. L. (4 CE)	Ninety Six
Skelton, R. J. (1 E-AgEn)*	Spartanburg	Spearman, J. D. (2 CE)	North Charleston
Skelton, T. E. (G Ent)	Clemson	Spearman, N. B. (2 A)	Greenville
Skelton, V. C. (1 Ed)*	La France	Spence, W. D. (2 ChEn)	Columbia
Skinner, J. T. (2 ME)	Wedgfield	Spencer, B. R. (4 TM)	Greenwood
Skinner, S. B. (2 IndMgt)*	Conway	Spencer, C. S. (1 E-CE)*	Charleston
Skove, M. J. (4 IndPhys)	Clemson	Spiers, W. J. (2 A)	Cameron
Slaton, J. A. (1 E-EE)	Townville	Spivey, C. B. (2 IndMgt)	North Augusta
Sloan, A. T. (1 E-ME)*	Spartanburg	Spivey, H. R. (1 IndMgt)	Conley, Ga.
Smalley, R. L. (1 E-ME)	Gaffney	Spooner, R. J. (1 Ed)	Ogdensburg, N. Y.
Smart, D. E. (3 TE)	Greenwood	Sprawls, P. (4 IndPhys)	Williston
Smith, A. C. (G Ed)	Pickens	Springer, R. W. (1 A-Dairy)	Seneca
Smith, A. G. (2 VAE)	Greenville	Sprouse, B. J. (4 TM)	Slater
Smith, Charles J., Jr. (2 ChEn)	Charleston	Squires, J. D. (2 A-Agron)	Aynor
Smith, Charles J., Jr. (1 E-TE)*	Abbeville	Stack, C. N. (2 A-Hort)	Pinewood
Smith, C. R. (3 EE)	Orangeburg	Stahl, E. (4 TM)	Elmhurst, N. Y.
Smith, D. F. (1 E-ME)	Pittsburgh, Pa.	Stall, A. N. (3 TM)	Greenville
Smith, D. W. (1 Pre-Med)*	Johnston	Stallings, E. L. (3 EE)	Newberry
Smith, E. T. (3 TM)	Startex	Stamps, H. D. (2 A&S)	Piedmont
Smith, F. L. (1 E-ME)	North Charleston	Stanaland, J. D. (2 VAE)	Ash, N. C.
Smith, G. F. (2 ME)	Greenville	Stanley, J. D. (4 EE)	Clemson
Smith, G. N. (2 EE)	Anderson	Stanley, R. L. (1 E-EE)	Varnville
Smith, H. C. (2 EE)	S. Greenwood	Staples, F. D. (4 TE)	Abbeville
Smith, H. D. (1 IndMgt)*	Gainesville, Ga.	Starkey, L. V. (4 A&S)	Clemson
Smith, J. Baylus (1 E-CE)*	Athens, Ga.	Starnes, F. K. (2 TM)	Lancaster
Smith, J. Benjamin (1 VAE)*	Pickens	Starr, J. S. (1 Pre-Vet)	Lancaster
Smith, J. Boyd (4 TM)	Kinards	Staton, J. P. (2 CE)	Greenville
Smith, J. Dale (4 TM)	Liberty	Steed, J. A. (2 EE)	Anderson
Smith, J. Deah (1 Pre-For)	Georgetown	Steed, J. C. (1 E-CE)*	Jackson
Smith, J. Delano (1 E-ME)*	Jackson	Steed, J. H. (1 E-ME)*	Jackson
Smith, James E. (1 E-CE)*	Florence	Steadly, J. R. (1 IndMgt)	Bamberg
Smith, Joseph E. (1 IndMgt)*	Ridgeland	Steele, J. T. (2 EE)	Rock Hill
Smith, J. F. (3 VAE)	Madison	Steele, N. D. (3 EE)	Statesville, N. C.
Smith, J. K. (1 IndMgt)*	Piedmont	Steele, R. H. (3 IndPhys)	Harrisburg, Va.
Smith, J. L. (4 AH)	McCormick	Stegall, T. L. (1 IndMgt)*	Washington, D. C.
Smith, Joel M. (1 TM)*	Spartanburg	Steinbrecher, J. E. (1 E-ME)	Huntington, W. Va.
Smith, John M. (1 Pre-Med)*	Saluda	Steinmeyer, J. H. (4 A&S)	Barnwell
Smith, J. R. (1 ChEn)*	Greenville	Stelling, C. M. (1 E-CE)	Augusta, Ga.
Smith, J. T. (4 Pre-Med)	Easley	Stembridge, C. E. (2 A)	Ellijay, Ga.
Smith, J. W. (2 ME)	Bishopville	Stephens, G. J. (1 ChEn)*	Central
Smith, L. E. (2 EE)	North Charleston	Stephens, J. H. (4 TM)	Rock Hill
Smith, M. H. (1 E-ME)	Sumter	Stephens, L. M. (G Ed)	Canton, N. C.
Smith, M. L. (3 CE)	Anderson	Stephens, R. L. (2 A-Agron)	Dillon
Smith, R. A. (PG EE)	Springfield	Stephenson, R. F. (3 A&S)	Winnboro
Smith, R. D. (2 CrEn)	Bishopville	Steuer, W. T. (2 EE)	Marion
Smith, R. E. (1 E-ME)	Barnwell	Stevens, F. W. (2 ArEn)	Charleston
Smith, R. R. (4 EE)	Brevard, N. C.	Stevens, J. H. (1 IndMgt)	Greenwood
Smith, S. D. (1 E-TE)*	Spartanburg	Stevens, J. W. (2 ME)	North Charleston
Smith, S. E. (4 ME)	North Charleston	Stevens, W. D. (1 VAE)	Loris
Smith, T. C. (1 ChEn)*	Saluda	Stevenson, J. H. (2 ME)	Warwick, R. I.
Smith, T. E. (3 VAE)	Naples, N. C.	Stevenson, L. M. (G Ed)*	Clemson
Smith, W. E. (4 AgEn)	Rowesville	Stevenson, R. W. (1 E-EE)	Townville
Smith, W. H. (2 TM)	Spartanburg	Stevenson, W. C. (1 A-Dairy)*	Chester
Smith, W. L. (1 E-TE)*	Darlington	Stewart, D. W. (3 A-AH)	Fountain Inn
Smith, W. R. (1 Pre-For)*	Summerville	Stewart, E. P. (Unc)**	Liberty
Smook, A. H. (2 EE)	Branchville	Stewart, H. E. (1 ChEn)*	Greenville
Smook, A. L. (G VAE)**	Smooks	Stewart, R. J. (3 ME)	Humboldt, Tenn.
Smook, J. A. (2 AgEn)	Yonges Island	Still, D. B. (1 VAE)	Blackville
Smook, J. F. (2 CrEn)	Columbia	Still, J. E. (4 TM)	North Augusta
Snapp, O. I. (4 CE)	Ft. Valley, Ga.	Stoddard, R. C. (3 VAE)	Owings
Snaveley, W. B. (2 EE)	Anderson	Stokes, F. M. (1 E-CE)	Greer
Snider, J. L. (2 CE)	Anderson	Stokes, H. A. (1 E-ME)*	Taylors
Snider, M. M. (3 Chem)	Anderson	Stokes, P. W. (3 CE)	Charleston
Snipes, H. B. (3 TM)	Anderson	Stokes, T. C. (1 E-ME)*	Greer
Snipes, H. J. (1 Ed)	Easley	Stone, C. L. (2 Ed)	Piedmont
Snipes, H. L. (2 CE)*	Lancaster	Stone, C. R. (1 IndMgt)*	Greenville
Snipes, L. C. (2 Ed)	Clemson	Stone, J. D. (1 VAE)*	Johnsonville
Snoddy, J. W. (2 CrEn)	Dillon	Stone, W. J. (1 E-EE)	Anderson
Snyder, H. C. (1 A&S)	Walhalla	Stoops, R. F. (2 EE)	McCormick
Snyder, R. P. (1 E-CE)*	New Castle, Del.		
Snypp, J. R. (1 IndMgt)	Rock Hill		
Soudan, A. E. (2 A-AH)	Glenview, Ill.		

Name and Course	Address
Stover, W. W. (2 IndMgt)°	Greenville
Stowe, H. R. (1 Ed)°	Gastonia, N. C.
Stramm, R. A. (3 IndMgt)°	Charleston
Strange, C. N. (4 AH)	Taylors
Strange, H. W. (1 IndMgt)	Columbia
Strawn, D. J. (1 ChEn)°	Greenville
Stribling, H. D. (4 ME)	Clemson
Strickland, J. C. (2 A-AH)	Smoaks
Strickler, J. H. (1 ChEn)°	Folly Beach
Stringer, A. F. (2 Pre-Vet)	Belton
Strom, J. L. (4 EE)	Charleston
Stroud, E. L. (1 Pre-Med)°	Woodruff
Stuart, B. W. (2 ME)	Hamer
Stubbs, S. W. (3 Arch)	Sumter
Stuck, C. G. (4 AgEc)	Pomaria
Sturgis, W. B. (3 ChEn)	Rock Hill
Suber, C. (1 TM)	Anderson
Suber, R. D. (4 Agron)	Orangeburg
Suggs, J. D. (2 EE)	Columbia
Suggs, R. W. (1 E-EE)°	Loris
Sullivan, J. K. (3 Chem)	Greenwood
Sullivan, R. A. (1 Pre-For)°	Savannah, Ga.
Summers, J. W. (4 ArEn)	Orangeburg
Suriani, O. N. (3 ArEn)	New York, N. Y.
Sutherland, A. C. (4 TM)	Pendleton
Sutherland, T. F. (1 ChEn)°	Abbeville
Sutton, A. C. (1 E-CE)°	Fort Mill
Sutton, M. R. (1 TC)	Lancaster
Sutton, W. (G Chem)°°	Clemson
Swaney, W. R. (1 E-ME)°	Pendleton
Sweet, L. W. (1 E-CE)	Ladson
Sweet, G. S. (2 EE)	Beaufort
Swetenburg, J. R. (4 TE)	Anderson
Swofford, R. P. (1 CrEn)°	Laurens
Swygert, J. K. (4 Ind Ed)	Ballentine
Swygert, R. H. (4 AH)	Iva
Sykes, J. H. (2 TM)	Morristown, Tenn.
Talley, J. O. (2 ME)	Greenville
Talley, R. H. (1 VAE)	Tamassee
Tanksley, J. T. (1 IndMgt)°	Seneca
Tanner, R. D. (2 CE)	Easley
Tanner, R. V. (3 ME)	Kingstree
Tannery, D. E. (2 CE)	Ft. Riley, Kan.
Tarleton, B. L. (4 TE)	Aiken
Tarpley, W. A. (G Ent)°°	Norwood, Ga.
Tarte, P. E. (3 TM)	Abbeville
Tate, F. W. (2 TM)	Greenville
Taylor, C. B. (3 Agron)	Jefferson
Taylor, G. R. (3 ME)	Erwin, Tenn.
Taylor, J. A. (1 E-EE)	Greenville
Taylor, J. K. (2 IndMgt)	Lancaster
Taylor, J. P. (1 E-ME)°	Batesburg
Taylor, J. S. (3 IndMgt)	Arlington, Va.
Taylor, R. R. (1 E-ME)°	Greenville
Taylor, T. W. (2 A-AH)	Laurens
Taylor, William H. (3 IndMgt)	Anderson
Taylor, Wyllis, H. (2 IndMgt)	Camden
Tedder, R. F. (1 E-EE)°	Cherryville, N. C.
Templeton, C. (1 IndMgt)	Greenville
Templeton, R. S. (1 E-AgEn)°	Owings
Terry, J. P. (2 ChEn)	Hartsville
Thackston, T. A. (2 ME)	Charlotte, N. C.
Thayer, C. R. (1 E-ME)	Adamstown, Md.
Theos, C. J. (3 EE)	Charleston
Thomas, C. A. (G Ent)	Longs
Thomas, J. B. (2 TM)	Easley
Thomas, I. H. (4 IndEd)	West Columbia
Thomas, J. W. (4 Agron)	Lake City
Thomas, L. P. (3 ME)	Spartanburg
Thomas, M. H. (3 VAE)	Mullins
Thomas, W. C. (3 ME)	Edgemoor
Thomas, W. H. (G AgEc)	Greenville
Thomas, W. L. (1 Ed)	Layton, Pa.
Thomason, J. F. (4 CrEn)	Greenville
Thomason, J. M. (1 IndMgt)	Olanda
Thomason, W. P. (2 EE)	Laurens
Thomasson, J. F. (1 E-ME)°	Rock Hill
Thompson, A. G. (2 TE)	Columbia

Name and Course	Address
Thompson, B. D. (1 E-AgEn)°	Gaffney
Thompson, H. D. (4 TM)	London, Canada
Thompson, Harold E. (3 ChEn)	Anderson
Thompson, Howard E. (1 IndMgt)°	Dravosburg, Pa.
Thompson, H. F. (3 ME)	Charleston Heights
Thompson, J. A. (G Ed)°°	Clemson
Thompson, J. P. (1 E-ME)°	Davidson, N. C.
Thompson, L. K. (1 EE)°	Laurens
Thompson, M. C. (1 A)°	Manning
Thompson, M. H. (2 TM)	Pauline
Thompson, N. B. (1 A-AH)°	Watauga, Tenn.
Thompson, S. F. (1 IndEd)	Bucksport
Thompson, S. G. (G TC)°°	Charleston Heights
Thompson, T. A. (1 A-AH)	Kingstree
Thrower, G. F. (1 ChEn)°	Bennettsville
Thruston, T. F. (2 TE)	Greenville
Tidwell, J. T. (1 E-TE)°	Camden
Tiller, H. D. (1 E-EE)°	Anderson
Tiller, W. E. (3 IndPhys)	Anderson
Tilley, D. U. (G TC)	Greenville
Tillman, J. (1 E-EE)	Glenville, Ga.
Timmerman, A. J. (1 IndMgt)	Hartsville
Timmerman, J. A. (2 Pre-Med)	Pelzer
Tinsley, H. D. (2 EE)	Hodges
Tinsley, J. A. (1 E-ME)°	Anderson
Tinsley, M. E. (1 E-ME)°	Rock Hill
Tisdale, R. J. (4 TE)	High Shoals, N. C.
Toal, C. E. (1 A-Poul)°	Columbia
Todd, J. A. (1 E-ME)°	Aiken
Tolin, C. H. (1 E-CE)°	Georgetown
Tollison, H. E. (1 CrEn)°	Greenville
Tomlinson, M. H. (1 IndMgt)°	Bamberg
Tomlinson, N. J. (2 A&S)	Lynchburg
Torbik, R. A. (2 EE)	Scotch Plains, N. J.
Torrence, R. M. (4 TE)	Rock Hill
Toth, W. J. (3 EE)	Canonsburg, Pa.
Towell, R. D. (2 Pre-Med)	Spartanburg
Towers, F. W. (3 Arch)	Flat Rock, N. C.
Townsend, G. E. (4 ME)	Rock Hill
Townsend, J. A. (2 IndMgt)	Bennettsville
Townsend, J. N. (1 E-ME)°	Rock Hill
Townsend, T. P. (1 E-TE)°	Laurens
Toy, W. S. (G AgEc)°°	Chapin
Trado, W. E. (1 IndMgt)	Henderson, N. C.
Tragus, E. T. (3 Pre-Med)	Allentown, Pa.
Trammel, J. A. (1 A-Dairy)°	Woodruff
Trammell, F. M. (1 E-CE)	Greenville
Tribble, R. L. (1 E-ME)	Charlotte, N. C.
Tribble, W. C. (1 Pre-Vet)	Piedmont
Trimnier, D. C. (1 Pre-Med)°	Bedford, Pa.
Trimnier, J. R. (3 IndPhys)	Bedford, Pa.
Tritapoe, H. G. (2 EE)	Graniteville
Trively, M. C. (Unc)°°	Clemson
Trotter, O. (2 IndMgt)	Pickens
Trowell, J. M. (3 AgCh)	Pacolet Mills
Truesdel, J. D. (2 ME)	Kershaw
Truluck, D. L. (4 IndPhys)	Hampton
Truluck, H. R. (1 E-AgEn)°	Coward
Tucker, H. (Unc)°°	Williamston
Tucker, J. D. (1 TM)°	Inman
Tucker, M. L. (G Ed)°°	Williamston
Tucker, W. R. (1 CrEn)	Iva
Tumbleston, I. W. (2 Ed)	Yonges Island
Tumblin, J. R. (1 E-ME)°	Greenville
Tupper, G. L. (1 A-Dairy)°	Summerville
Turbeville, H. W. (1 IndEd)	Camden
Turner, C. D. (1 E-CE)	Greenville
Turner, D. H. (2 EE)	Blacksburg
Turner, D. L. R. (4 TM)	Spartanburg
Turner, J. A. (3 VAE)	Pamplico
Turner, J. D. (1 TC)°	Inman
Turner, J. H. (3 EE)	Marion

Name and Course	Address
Turner, P. (4 TC)	Greenville
Turner, R. A. (3 IndEd)	Blacksburg
Turner, R. P. (2 VAE)	Woodruff
Turner, T. H. (1 Arch)	Greenville
Turner, T. O. (1 E-ME)*	Piedmont
Turner, W. K. (PG Arch)	Columbia
Turner, W. L. (1 E-EE)*	Clemson
Tuten, A. R. (1 E-ME)*	Greenville
Tyler, W. S. (1 E-CE)*	Columbia
Uhlig, W. J. (1 IndMgt)*	—

Murrysville, Pa.

Uldrick, J. M. (G Ed)	Clemson
Uldrick, J. P. (PG ME)	Donalds
Vaigneur, H. O. (G AgEn)*	Clemson
Van Arsdale, W. K. (2 EE)	Greer
Vance, C. E. (3 CrEn)	Greenville
Vannice, C. W. (2 EE)	Georgetown
Van Ravestein, J. H. (2 EE)	Piedmont
Varnadoe, R. H. (1 Pre-Med)	Hardeeville
Vassey, W. R. (2 EE)	Marietta
Vaughan, J. H. (2 IndMgt)	Owings
Vaughan, O. H. (G ME)	Seneca
Vaughan, R. F. (1 VAE)*	Lancaster
Vaughn, C. M. (2 ME)	Greer
Vazopolos, S. (G Chem)*	—

New Bedford, Mass.

Venturella, G. P. (2 AgEn)	Anderson
Vickers, A. M. (1 Arch)*	Durham, N. C.
Vickery, B. A. (1 Ed)*	Seneca
Vines, J. S. (1 E-AgEn)*	Greenwood
Voight, W. B. (4 A&S)	Summerville
Von Kaenel, J. C. (G ME)*	Clemson
Wactor, R. S. (1 A-Agron)	Orangeburg
Wactor, W. R. (3 ChEn)	Orangeburg
Walden, R. (4 CE)	Fairforest
Waldrop, D. F. (1 CrEn)*	Anderson
Waldrop, J. W. (2 TE)	Timmons ville
Waldrop, W. A. (1 TC)	Greenville
Walker, D. E. (1 A-Agron)	—

Winston-Salem, N. C.

Walker, J. E. (2 IndPhys)	Sheffield, Ala.
Walker, J. G. (2 ME)	Marion
Walker, J. H. (1 IndMgt)*	Greenwood
Walker, R. L. (G Ent)*	Florence
Walker, S. L. (1 A&S)	Clemson
Walker, W. C. (1 Arch)*	Graniteville
Walker, W. E. (3 Chem)	Rock Hill
Walkup, J. B. (1 E-ME)*	Florence
Wall, A. D. (4 IndEd)	Charleston
Wall, B. C. (2 CE)	North Augusta
Wall, H. H. (2 Ed)	Ridgeland
Wall, J. E. (2 VAE)	Chesnee
Wall, J. W. (4 AH)	Ridgeland
Wall, M. W. (2 VAE)*	Chesnee
Wall, R. B. (1 E-ME)*	Chester
Wallace, J. H. (3 TM)	Gaffney
Wallace, L. A. (3 Agron)	Cades
Walker, S. T. (1 E-ME)*	Atlanta, Ga.
Walters, J. E. (2 A-Ent)	Clemson
Walters, L. D. (1 ChEn)*	Lancaster
Walton, S. W. (1 E-ME)*	Batesburg
Ware, J. R. (1 E-EE)*	Anderson
Warner, J. R. (3 EE)	Charleston Heights
Warner, T. E. (1 Arch)*	Rock Hill
Warren, G. (2 Pre-Med)	Hampton
Warren, P. M. (1 E-AgEn)*	Williams
Warren, W. R. (2 CrEn)	Spartanburg
Washington, C. E. (4 TM)	Honea Path
Washington, J. M. (2 ChEn)	Honea Path
Wasson, F. J. (2 ME)	Statesville, N. C.
Wasson, W. N. (4 CE)	Laurens
Waters, J. R. (4 CE)	Beaufort
Watford, B. J. (3 Dairy)	Timmons ville
Watkins, D. H. (1 Pre-Med)*	Rock Hill
Watson, B. G. (3 CE)	Spartanburg
Watson, G. L. (1 E-ME)*	Laurens
Watson, J. K. (4 VAE)	Batesburg
Watson, T. C. (3 ME)	Taylors

Name and Course	Address
Watson, W. S. (1 E-EE)*	Conway
Watson, W. V. (1 E-ME)*	Greenwood
Watson, Z. S. (3 EE)	Marion
Watt, C. K. (1 E)*	Pelzer
Watt, J. R. (1 E-EE)	Pickens
Way, F. M. (2 A-AH)	Charleston
Way, L. W. (1 E-AgEn)*	Orangeburg
Weaver, J. R. (2 IndMgt)	Florence
Weaver, M. D. (1 Chem)*	Greenwood
Webb, C. R. (2 CE)	Elkton, Md.
Webber, G. R. (1 A-AH)*	Margate, N. J.
Weber, T. W. (3 CrEn)	Woodbridge, N. J.
Webster, G. W. (1 VAE)*	Lake City
Weeks, J. W. (1 E-ME)	Pinewood
Weeks, W. C. (2 A-AH)	Williston, Fla.
Weeks, W. J. (1 A)*	Florence
Weil, J. H. (1 IndMgt)*	Charleston
Weir, J. M. (2 EE)	Belton
Welborn, N. P. (1 ChEn)	Liberty
Welborn, T. E. (1 E-ME)*	Easley
Welch, M. O. (2 A-Agron)	Ehrhardt
Wells, D. O. (4 ArEn)	Pacolet
Wells, J. A. (1 Pre-Med)*	Columbia
Wells, J. D. (1 E-ME)*	Charlotte, N. C.
Wells, J. W. (2 IndMgt)	Columbia
Wells, W. H. (2 IndMgt)	Pacolet Mills
Werner, H. N. (1 Chem)*	Rock Hill
Werner, R. L. (1 Arch)	Rock Hill
Werts, J. R. (2 A-AH)	Ninety Six
Wertz, P. A. (2 A&S)	Pendleton
West, B. E. (1 E-ME)	Spartanburg
West, F. E. (2 ME)	Camden
West, J. J. (G TC)*	Clemson
West, W. H. (2 AgEn)	Simpsonville
Westbrook, W. W. (1 E-AgEn)*	—

Edgemoor

Westbury, B. M. (2 Pre-Vet) St. George

Westendorff, C. G. (G Chem)*

North Charleston

Westerlund, E. R. (1 IndMgt)*

Rock Hill

Whaley, S. G. (1 Pre-Vet)*

Aynor

Wheeler, J. E. (1 E-EE)*

Greenville

Whelan, D. J. (4 EE)

Savannah, Ga.

Whelchel, H. W. (1 E-ME)*

Gaffney

Wheless, F. H. (2 CE)

Timmons ville

Whetsell, E. D. (2 EE)

Bowman

Whetstone, J. F. (4 CE)

North

Whisonant, J. S. (1 Ed)

Gaffney

White, C. H. (2 Ed)

Greenville

White, C. R. (2 IndMgt)*

Pendleton

White, D. K. (1 A)*

Timmons ville

White, E. T. (1 E-ME)*

Fort Mill

White, G. P. (1 E-EE)*

Augusta, Ga.

White, K. B. (3 Ed)

Pacolet

White, M. A. (1 E-EE)*

Sumter

White, M. V. (2 Arch)

Anderson

Whitesides, J. C. (G AgEn)*

Clover

Whitfield, H. K. (3 ME)

Anderson

Whitfield, L. L. (2 TM)

Anderson

Whitlaw, N. O. (1 E)*

Latta

Whitlow, D. R. (4 EE)

Royston, Ga.

Whittaker, J. R. (2 Pre-Vet)

Gray Court

Whitworth, C. J. (4 Chem)

Toccoa, Ga.

Whitworth, R. J. (1 Arch)*

Clemson

Wicker, H. R. (2 EE)

Greenville

Wicker, W. L. (2 ME)

Georgetown

Wiggins, B. S. (4 Dairy)

Hopkins

Wiggins, J. C. (1 E-CE)

Garnett

Wiggins, J. E. (1 IndMgt)

Arlington, Va.

Wiggins, W. W. (2 CE)

Arlington, Va.

Wigington, J. (2 ME)

Salem

Wigington, J. T. (1 A-AH)*

Piedmont

Wigington, M. (1 IndMgt)

Salem

Wigington, W. F. (4 AH)

Piedmont

Wildner, B. E. (2 TE)

Spartanburg

Wilkerson, R. W. (3 Arch)

Winnsboro

Wilkes, G. C. (4 IndEd)

Clinton

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Wilkie, J. E. (4 CE) . . .	Gastonia, N. C.	Wisher, L. J. (1 Chem)* . . .	Blacksburg
Wilkins, J. D. (3 AH) . . .	Chesnee	Wisniewski, S. P. (1 Arch)* . . .	Somerville, N. J.
Willard, R. O. (4 TM) . . .	Asheboro, N. C.	Witherspoon, W. D. (3 AH) . . .	Timmons ville
Williams, B. L. (1 Pre-Med)* . . .	Sumter	Wofford, B. W. (1 E-ME)* . . .	Greenville
Williams, F. E. (4 TE) . . .	Lancaster	Wofford, E. L. (3 Poul) . . .	Gainesville, Ga.
Williams, G. W. (1 Arch)* . . .	Radford, Va.	Wolfe, M. W. (1 A-Agron)* . . .	Inman
Williams, H. M. (4 EE) . . .	Campobello	Wolfe, R. H. (1 Arch)* . . .	Spartanburg
Williams, H. S. (2 TM) . . .	Greenville	Womack, J. W. (1 TM)* . . .	Honea Path
Williams, J. A. (2 ME) . . .	Fairfax	Wood, J. L. (2 TM) . . .	Williamston
Williams, J. B. (1 A-AH)* . . .	Marion	Wood, K. J. (3 ME) . . .	Greenville
Williams, J. M. (1 E-ME)* . . .	Nichols	Wood, P. H. (1 E-ME) . . .	Spartanburg
Williams, L. (2 A-AH) . . .	Marion	Woodall, C. E. (G AgEc) . . .	Marietta
Williams, L. A. (1 E-EE)* . . .	Summerton	Woodard, J. W. (2 Ed) . . .	Aiken
Williams, R. F. (1 IndMgt) . . .	Sumter	Woodhurst, C. L. (1 E-TE)* . . .	Williamston
Williams, R. O. (1 VAE) . . .	Seneca	Woodle, A. G. (1 E-EE)* . . .	Greenwood
Williams, T. L. (2 TC) . . .	Rock Hill	Woods, B. D. (1 ChEn) . . .	Easley
Williams, T. R. (2 A-AH) . . .	Edgefield	Woods, T. R. (2 ME) . . .	Jacksonville, Fla.
Williams, W. G. (1 E-ME) . . .	Greenville	Woods, W. H. (1 Pre-Med)* . . .	Olanta
Williams, Y. E. (PG Pre-Med) . . .	Salley	Workman, G. S. (3 ArEn) . . .	Rock Hill
Williamson, H. S. (2 Pre-Med) . . .	Naval Base	Worthy, B. H. (1 E-EE) . . .	Greenville
Williamson, J. D. (1 E-EE)* . . .	Cedartown, Ga.	Wrenn, J. W. (1 IndMgt)* . . .	Chester
Williamson, R. E. (1 E-AgEn)* . . .	York	Wrenn, T. W. (3 ME) . . .	Greenville
Williamson, W. T. (G Dairy) . . .	Naval Base	Wright, E. J. (4 Agron) . . .	Belton
Wills, F. D. (3 IndPhy) . . .	Monetta	Wright, F. S. (1 ChEn) . . .	Grover, N. C.
Wilson, A. W. (1 E-CE)* . . .	Buckroe Beach, Va.	Wright, J. W. (2 A-AH) . . .	Johnston
Wilson, B. S. (3 CrEn) . . .	Charleston	Wright, L. H. (4 Chem) . . .	Staten Island, N. Y.
Wilson, D. B. (4 ME) . . .	Spartanburg	Wright, T. D. (1 E-CE)* . . .	North Charleston
Wilson, F. R. (1 IndMgt) . . .	Spartanburg	Wyatt, B. F. (1 VAE)* . . .	Williamston
Wilson, H. L. (4 ME) . . .	Kingstree	Wylie, W. L. (1 CrEn)* . . .	Greenville
Wilson, H. R. (2 IndMgt) . . .	Anderson	Wyman, J. F. (4 AH) . . .	Estill
Wilson, J. C. (3 TM) . . .	Central	Wynn, C. R. (1 Arch)* . . .	North Augusta
Wilson, J. P. (3 A&S) . . .	Walterboro	Wynn, F. E. (2 IndMgt) . . .	Taylors
Wilson, K. W. (1 E-EE)* . . .	Pickens	Wysong, W. H. (1 Arch)* . . .	Florence
Wilson, L. C. (2 ME) . . .	Anderson	Yarborough, T. C. (1 E-ME) . . .	Timmons ville
Wilson, L. G. (2 TE) . . .	Wellford	Yarborough, W. T. (2 Ed) . . .	Walhalla
Wilson, L. R. (1 E-ME)* . . .	Greenville	Yates, D. N. (1 E-ME)* . . .	Alexandria, Va.
Wilson, R. F. (4 ME) . . .	Pendleton	Yaun, L. A. (3 A&S) . . .	Aiken
Wilson, Randolph L. (1 IndEd)* . . .	Newberry	Yeargin, R. A. (2 ME) . . .	Greer
Wilson, Ruel L. (G AH)* . . .	Wampee	Yeary, R. C. (1 IndMgt) . . .	Nicholasville, Ky.
Wilson, W. D. (3 IndMgt) . . .	Camden	Yike, R. M. (4 A&S) . . .	Avondale Estates, Ga.
Wilson, W. N. (4 TM) . . .	Anderson	Yockel, V. M. (1 IndMgt) . . .	Jersey City, N. J.
Wilson, W. S. (2 ME) . . .	Greer	Yon, D. R. (1 E-AgEn)* . . .	Anderson
Wilson, W. V. (1 E-CE)* . . .	Cades	Yonce, C. E. (2 A-AH) . . .	Ridge Spring
Wimberly, F. N. (2 EE) . . .	Camden	Yonce, J. E. (1 A-AH)* . . .	Trenton
Winborne, W. R. (2 Arch) . . .	Conway	York, F. H. (2 ME) . . .	Allendale
Winchester, D. H. (1 TM) . . .	Greenville	Young, H. L. (2 AgEn) . . .	Hemingway
Winchester, J. D. (1 TM) . . .	Pickens	Young, J. E. (4 AH) . . .	Orangeburg
Winchester, S. W. (3 EE) . . .	Fort Mill	Young, J. H. (1 E-EE)* . . .	Brunson
Windham, J. A. (1 TM)* . . .	Sumter	Young, R. W. (1 E-CE) . . .	Rock Hill
Wingard, T. K. (2 ME) . . .	Lexington	Young, S. H. (2 TM) . . .	Timmons ville
Winning, J. R. (1 Pre-Med)* . . .	Greenville	Zahler, E. C. (1 A-Hort)* . . .	Yemassee
Wise, J. C. (1 A-Hort)* . . .	Johnston	Zimmerman, C. G. (4 TM) . . .	Florence
Wise, T. H. (2 EE) . . .	Greenville	Zink, E. M. (1 E-AgEn)* . . .	Lexington, Ky.
		Zorn, R. A. (2 VAE) . . .	Denmark

†SUPPLEMENTARY LIST OF STUDENTS SECOND SEMESTER, 1955-1956

Name and Course	Address	Name and Course	Address
Ables, H. F. (1 VAE)*	Anderson	Corder, W. O. (G Ed)*	Lodge
Addis, L. C. (1 TM)	Easley	Creighton, C. S. (G)*	Florence
Agro, C. J. (2 IndMgt), White Plains, N. Y.		Creighton, W. P. (G TC)	McCormick
Alexander, W. R. (1E-CE)*	Taylors	Crocker, B. E. (1 Ed)	Gaffney
Anderson, E. C. (2 A-AH)*	Smithtown, N. Y.	Crone, J. E. (1 E-ME)*	Piedmont
		Dallas, H. L. (Unc)*	Clemson
Apinis, John (1 TC)*	Willimantic, Conn.	Davis, D. M. (G Ed)*	Clemson
Arant, H. T. (1 VAE)*	Bowman	DeLoach, W. C. (1 ChEn)*	Estill
Argo, M. M. (1 IndMgt)	Abbeville	Dodd, W. K. (2 Pre-Vet)	Round O
Arledge, M. J. (1 E-ME)*	Greenville	Dorn, R. L. (1 A-AH)*	Irmo
Arnot, G. W. (3 IndMgt)	Charleston	Dorn, T. W. (1 A-AH)*	North Augusta
Ayran, A. M. (Unc)*	Quezon City, Philippines	Dryman, R. L. (1 E-ME)*	Franklin, N. C.
		Eades, J. R. (1 E-CE)*	Liberty
Babb, R. H. (3 EE)	Fountain Inn	Eberhart, T. R. (1 CrEn)*	Tarentum, Pa.
Babb, W. H. (1 E-EE)	Fountain Inn	Edge, W. R. (1 VAE)*	Nixonville
Bailey, J. M. (1 E-EE)*	Greenville	Elgin, J. W. (1 E-EE)*	Belton
Baker, M. C. (1 VAE)	Harleyville	Elmore, D. S. (1 Ed)	Gaffney
Ballenger, B. E. (1 E-ME)*	Walhalla	Ethridge, J. L. (1 IndMgt)*	Hartwell, Ga.
Barker, J. E. (1 VAE)*	Westminster	Eubanks, J. W. (1 Pre-Vet)	Buffalo
Bastian, B. H. (1 E-AgEn)	Mt. Pleasant	Fendley, J. B. (1 IndMgt)*	Clemson
Baumgarner, L. L. (1 Ed)*	Six Mile	Fisher, S. G. (1 TM)*	Charleston
Beall, J. B. (1 E-ME)*	Chicago, Ill.	Fortson, H. S. (1 E-EE)*	Bowman
Beasley, W. A. (G)*	Aiken	Foster, L. W. (2 IndMgt)*	Columbia
Bell, A. D. (2 Arch)*	Spartanburg	Fowler, C. F. (1 E-EE)	Gaffney
Bell, A. G. (1 A&S)	Galivants Ferry	Fowlkes, R. M. (1 IndPhys)*	Greenville
Bell, R. C. (2 CrEn)	Clemson	Fox, J. G. (2 A&S)	West Orange, N. J.
Belton, G. J. (2 IndMgt)*	Oak Ridge, Tenn.	Franks, J. R. (1 E-CE)*	Joanna
		Freeman, Alvin (1 A-AH)*	Central
Belue, J. C. (1 Arch)*	Greenville	Freeman, J. P. (1 E-CE)*	Charleston Heights
Bishop, Curtis E. (G Ed)*	Honea Path		
Blount, J. K. (1 VAE)	Loris	Funchess, W. H. (G)*	Edgefield
Bludau, C. J. E. (1 E-EE)*	Taylors	Gambrell, C. E. (G Hort)	Piedmont
Boggs, C. D. (1 Pre-Med)	Clemson	Ganyard, T. H. (3 ME)	Miami, Fla.
Boland, B. E. (1 E-EE)*	Greenville	Gardner, C. M. (3 EE)	Florence
Bolton, Y. P. (1 A&S)	Clemson	Garrison, D. W. (1 E-EE)*	Rock Hill
Bouknight, M. A. (G)*	Irmo	Gilstrap, L. C. (1 E-ME)	Pickens
Bowen, B. C. (1 Pre-Med)*	Clemson	Gilstrap, R. D. (1 TM)	Greenville
Breedlove, W. T. (1 Ed)	Abbeville	Gladden, W. P. (3 AgEn)	Richburg
Brown, J. T. (1 E-CE)*	Chapel Hill, N. C.	Glenn, G. R. (G CE)*	Bluefield, Va.
		Goff, S. D. (1 A)	Batesburg
Brown, M. R. (1 Arch)*	Columbia	Gowdy, W. B. (2 IndMgt)	Cades
Brunelle, J. R. (1 E-CE)*	Long Island City, N. Y.	Graham, O. G. (1 A&S)	Seneca
		Grainger, J. A. (1 VAE)*	Loris
Bryan, A. B. (1 E-CE)*	Edgefield	Gregg, J. H. (PG EE)	Clemson
Bryant, H. W. (2 CE)	Anderson	Griffin, J. H. (1 A-AH)*	Greenwood
Bullington, E. D. (2 VAE)	Greenwood	Grubbs, M. W. (G Ed)*	Belton
Bunch, L. M. (1 Chem)*	Laurel Hill, N. C.	Gunther, B. L. (Unc)*	Clemson
		Hall, G. T. (1 E-EE)*	Springfield
Busuiocesco, Pierre (1 Pre-Vet)*	Burton	Hall, J. B. (1 E-EE)*	Abbeville
Buttes, C. E. (Unc)*	Westminster	Hamilton, F. P. (G Ed)*	Seneca
Campbell, E. W. (G Ed)*	Iva	Hand, P. D. (2 EE)	Greenville
Carter, D. H. (1 E-CE)*	Union	Harrell, D. U. (1 E-AgEn)	Beaufort
Carter, W. L. (1 A&S)*	Thomasville, N. C.	Harris, W. G. (1 E-EE)	Chester
Cassady, J. A. (1 E-EE)*	Camden	Hart, R. E. (1 IndMgt)	Greenville
Chamblee, F. L. (1 A-AH)*	Anderson	Hendricks, T. D. (2 ME)	Pittsburgh, Pa.
Chatlin, I. L. (1 E-CE)*	Washington, D. C.	Henson, J. G. (2 A-AH)	Forest City, N. C.
		Herring, C. E. (3 ME)	Anderson
Chatlin, R. H. (1 E-CE)*	Washington, D. C.	Herring, J. N. (2 A-AH)	Nichols
		Hiers, Fred R. (2 EE)	Bamberg
Christopher, R. G. (4 AgEn)	Hodges	Hindman, E. C. (2 Chem)*	Anderson
Clemons, S. P. (2 A-AH)	Andrews	Hopkins, M. H. (3 Dairy)	Hopkins
Cleominger, H. R. (Unc)*	Clemson	Hopkins, M. L. (1 E-ME)*	Anderson
Cochran, J. A. D. (G Ed)*	Clemson	Horton, A. S. (2 IndMgt)*	Westerly, R. I.
Cocke, J. B. (PG AgEn)*	Clemson	Huey, R. Boyce (3 A&S)	Lancaster
Coleman, R. D. (PG VAE)	Latta	Hughey, J. W. (1 IndMgt)*	Piedmont
Collins, R. E. (1 E)*	Easley	Hulme, C. D. (1 IndMgt)*	Elberton, Ga.
Compton, H. W. (1 ChEn)*	Summit, N. J.	Hussey, R. E. (1 VAE)	Harleyville
Connor, W. B. (1 TM)	Fort Mill	Hutto, G. A. (G TC)	Myrtle Beach
Cook, C. F. (G Ed)*	Anderson	Inman, D. F. (1 E-CE)*	Central
Copeland, J. B. (G AgEc)*	Clemson	Jabr, S. U. (Unc)*	Beirut, Lebanon

† Students enrolled for the second semester who were not enrolled for the first semester. In this list, students are classified according to their credits at the beginning of the second semester; new students admitted at the beginning of the second semester are indicated by an asterisk (*); part-time students by two asterisks (**).

Name and Course

Address

James, B. O. (1 IndMgt)* Central
 Jeffcoat, H. H. (1 E-AgEn) North
 Johnson, J. K. (G ME)** Clinton
 Johnson, W. L. (1 TM) Charleston
 Johnson, W. U. (2 ME) Hartsville
 Jones, G. W. (1 E-CE) LaFrance
 Kelley, B. A. (1 A&S) Liberty
 Kimble, R. C. (1 CrEn)* Charleston
 King, E. L. (1 E-CE)* Durham, N. C.
 King, R. L. (1 VAE) Central
 Kinkaid, D. E. (1 E-EE)* Monmouth, Ill.
 Kirkley, F. E. (1 E-AgEn) Central
 Kramer, L. F. (1 Ed) Paterson, N. J.
 Lambert, J. R. (1 E)* New Orleans, La.
 Landers, W. M. (2 TM) Asheville, N. C.
 Lesesne, E. F. (1 Arch)* Columbia
 Locher, K. J. (1 A-Dairy) Saddle Brook, N. J.
 Long, H. L. (2 ME) Rock Hill
 Lowery, J. R. (1 E-TE)* Rock Hill
 Lowery, K. S. (1 VAE) Kershaw
 Lynch, W. C. (1 IndMgt) Savannah, Ga.
 McCombs, J. W. (PG EE) Greenwood
 McDaniel, V. G. (PG Pre-Vet) Bennettville
 McGregor, W. A. (1 TM) Anderson
 McGregor, W. F. (2 IndMgt) Anderson
 McKee, J. L. (G)* Florence
 McKay, L. H. (1 A-Agron)* Hendersonville, N. C.
 McKinnon, C. L. (1 A-Dairy) Matthews, N. C.
 McLeod, L. G. (1 E-AgEn)* Timmons ville
 McPherson, W. D. (3 CE) Greenville
 Marinovs, Pete (2 EE)* Greenville
 Martin, W. T. (1 IndMgt)* Cherry Point, N. C.
 Mathewes, J. K. (1 E-EE)* Charleston
 Mauldin, C. A. (1 E-EE)* Seneca
 Mears, C. P. (1 IndMgt)* Tillman
 Mellette, R. R. (G)* Aiken
 Meyerson, J. H. (2 ChEn)* Spartanburg
 Mikkelsen, H. D. (3 Arch) Clemson
 Miller, L. P. (1 TM)* Walhalla
 Miller, S. C. (2 CE) Greenville
 Mitchell, E. B. (3 ME) Charleston
 Moody, C. R. (1 A&S)* Dillon
 Moore, E. M. (3 TM) Pendleton
 Morgan, M. C. (1 TM) Great Falls
 Murphy, J. P. (2 ME) Charleston
 Nalley, C. E. (1 E-TE)* Easley
 New, H. H. (1 IndMgt)* Langley
 Newman, L. B. (1 Pre-For)* Clemson
 Nickles, C. J. (2 A&S) Abbeville
 Norton, T. C. (1 E-ME) Hartsville
 Nunnery, S. A. (G AgEn)** Clemson
 Ohlman, E. M. (1 E-CE)* Greenville
 Oliver, C. G. (1 IndMgt)* London, Canada
 Olson, M. G. (G Ed)** Clemson
 Osborne, T. R. (1 E-ME) Fort Mill
 Owens, C. E. (2 AgEn)* Fletcher, N. C.
 Owens, D. W. (1 IndMgt)* Easley
 Owens, C. R. (1 IndMgt)* Greenwood
 Owings, H. H. (1 IndMgt)* Greenwood
 Palmer, F. E. (2 ME)* Murphy, N. C.
 Parker, C. V. (1 VAE), Pisgah Forest, N. C.
 Patterson, J. R. (2 VAE) Campobello
 Pearson, P. D. (1 E-EE)* Miami, Fla.
 Pendarvis, Z. A. (1 TM)* Dorchester
 Pender, M. T. (G)* Williston
 Pettigrew, C. A. (1 A)* Abbeville
 Phillips, James A. (1 E-EE)* Rock Hill
 Phillips, Joseph A. (1 TM)* Williamston
 Pittman, R. N. (3 ME) Seneca

Name and Course

Address

Pitts, F. E. (1 IndMgt) Greenwood
 Poole, D. L. (1 E-EE)* Rock Hill
 Porter, H. E. (1 IndEd)* Central
 Pressley, C. M. (2 ME) Charlotte, N. C.
 Pruitt, Kenneth (2 TM)* Glendale
 Putnam, S. F. (1 Pre-Med)* Starr
 Reeder, A. E. (1 E-ME)* Fort Mill
 Rice, W. H. (1 E-EE)* Anderson
 Richards, D. S. (1 A-Hort) Charlotte, N. C.
 Riddle, J. D. (1 A&S)* Bronxville, N. Y.
 Rogers, W. K. (1 Ed) Walhalla
 Ross, F. V. (1 E-ME)* Asheville, N. C.
 Rowland, B. R. (1 IndMgt)* Sandy Springs
 Russell, W. R. (1 E-ME) Charlotte, N. C.
 Sanders, Cleveland (1 A-AH) Ritter
 Sanders, E. K. (1 TM) Summerville
 Sanders, J. C. (2 TM) Seneca
 Sanders, P. A. (1 Ed)* Seneca
 Sanderson, W. M. (1 A-AH)* Dillon
 Shirley, J. T. (2 VAE) Seneca
 Shoolbred, R. A. (Unc)* Clemson
 Short, A. E. (Unc)* Clemson
 Simmons, W. R. (1 E)* Greenville
 Skelton, B. R. (1 Pre-Med)* Anderson
 Smith, D. E. (1 E-ME)* Mt. Vernon, Ill.
 Southern, B. F. (2 Chem) Travelers Rest
 Sowell, M. E. (2 VAE) McBee
 Spearman, R. J. (1 E-EE)* Central
 Stone, F. R. (1 E-ME)* Buffalo
 Sumner, I. L. (1 TM)* Greenville
 Syracuse, H. J. (1 IndMgt)* Greenville
 Taylor, W. F. (G TC) Charleston
 Templeton, J. D. (2 TM) Lando
 Thomas, L. W. (1 E-EE)* Clemson
 Thompson, C. W. (G)* Hampton
 Timmerman, D. A. (G Ed)** Westminister
 Timmerman, G. A. (1 Arch)* Greenwood
 Trapp, L. W. (4 TM) Darlington
 Utsey, W. J. (1 IndMgt)* St. George
 Wactor, R. C. (1 TM)* Sumter
 Wagon, L. L. (1 A&S)* Union
 Ward, L. D. (1 E-CE)* Clemson
 Warnhoff, E. H. (Unc)* Clemson
 Washington, R. E. (1 Arch)* Clemson
 Watterson, H. D. (1 Arch)* Rock Hill
 Weathers, K. E. (G Ed)* Walhalla
 Webb, B. K. (G AgEn)** Cross Anchor
 Webster, R. P. (1 IndMgt)* High Point, N. C.
 West, W. B. (1 E-EE)* Greenville
 West, W. D. (2 IndMgt)* Greenville
 Westbury, T. O. (1 IndMgt)* Grover
 Whelchel, D. C. (1 E-EE)* Gaffney
 Whitaker, J. M. (2 CrEn)* Columbia
 White, F. D. (PG Pre-Vet) Inman
 White, J. R. (1 E-ME)* Seneca
 White, V. H. (1 A&S)* Pendleton
 Whiteaker, J. A. (1 Ed) Rock Hill
 Whitlock, C. K. (1 IndMgt) Lake City
 Whitmire, D. T. (1 IndMgt)* Pickens
 Wiggins, E. C. (2 Arch) Garnett
 Wike, J. D. (1 IndMgt)* Fort Mill
 Wiles, W. W. (1 E) Cameron
 Wilkinson, H. J. (1 E-ME) Clemson
 Williams, J. L. (1 A-AH)* Abbeville
 Williams, K. G. (1 IndMgt)* Greenville
 Williamson, J. H. (1 IndMgt)* North Charleston
 Willingham, H. M. (1 E-TE)* Joanna
 Wingate, E. K. (2 ME) Charleston
 Wright, J. M. (G)* Varnville
 Wynn, N. A. (G AgEc)** Clemson

NUMBER OF STUDENTS MAJORING IN EACH CURRICULUM, 1955-1956

Classification	Agriculture	Pre-Forestry	Pre-Veterinary	Voc. Agric. Ed.	Agric. Chemistry*	Arts and Sciences	Chemistry	Education	Industrial Ed.	Industrial Mfg.	Industrial Physics	Pre-Medicine	Agric. Engr.	Arch. Engr.	Architecture	Ceramic Engr.	Chemical Engr.	Civil Engr.	Electrical Engr.	Mech. Engr.	Textile Chemistry	Textile Engr.	Textile Mfg.	Postgraduate	Graduate	Unclassified	Enroll. by Classes
Senior	61	...	...	10	...	21	7	10	4	...	5	11	21	12	13	4	7	32	33	33	6	23	72	...	...	...	385
Junior	44	...	...	18	4	19	4	3	6	11	9	11	22	6	24	10	15	23	59	51	7	14	40	...	...	...	400
Sophomore	92	3	9	35	1	17	9	30	7	72	3	21	23	5	32	24	21	58	120	113	12	19	75	...	...	...	801
Freshman	138	20	13	56	...	35	17	56	9	183	6	51	48	...	62	29	76	121	210	235	14	40	90	...	...	...	1,509
Postgraduate	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	...	...	...	24
Graduate	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	148*	...	...	148*
Unclassified	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38
Total	335	23	22	119	5	92	37	99	26	266	23	94	114	23	131	67	119	234	422	432	39	96	277	24	148*	38	3,305*

* Includes 38 part-time graduate students enrolled at Branch Stations.

ENROLLMENT BY COUNTIES AND STATES 1955-1956

<i>County</i>	<i>Total</i>	<i>State or Country</i>	<i>Total</i>
Abbeville	33	Alabama	5
Aiken	58	California	2
Allendale	13	Canada	3
Anderson	287	Connecticut	4
Bamberg	22	Delaware	3
Barnwell	18	District of Columbia	7
Beaufort	17	Florida	40
Berkeley	21	Georgia	121
Calhoun	8	Greece	1
Charleston	147	Illinois	14
Cherokee	39	Indiana	2
Chester	36	Kansas	1
Chesterfield	19	Kentucky	4
Clarendon	18	Korea	1
Colleton	28	Lebanon	1
Darlington	40	Louisiana	5
Dillon	27	Maine	2
Dorchester	23	Maryland	10
Edgefield	22	Massachusetts	7
Fairfield	16	Michigan	3
Florence	92	Mississippi	1
Georgetown	25	Missouri	1
Greenville	339	Netherlands West Indies	1
Greenwood	83	New Jersey	37
Hampton	22	New York	49
Horry	55	North Carolina	194
Jasper	16	Ohio	2
Kershaw	20	Pakistan	1
Lancaster	44	Pennsylvania	46
Laurens	59	Philippines	1
Lee	11	Puerto Rico	3
Lexington	24	Rhode Island	2
Marion	24	South Carolina	2,671*
Marlboro	21	Tennessee	21
McCormick	10	Texas	1
Newberry	28	Virginia	31
Oconee	125	Washington	1
Orangeburg	57	West Virginia	5
Pickens	212	Wisconsin	1
Richland	85		
Saluda	22		
Spartanburg	172		
Sumter	60		
Union	27		
Williamsburg	32		
York	114		
		Grand Total	3,305*

South Carolina Total2,671*

* Includes 38 part-time graduate students enrolled at Branch Stations.

INDEX

	PAGE		PAGE
Administration of College	32	Classification	82
Academic	9	Clemson House Hotel	29, 56
Business and Financial Affairs	29	Clemson, Thomas G.	82
Development Activities	30	Clemson, Will of	64
Executive	9	Clubs and Societies	70
Student Affairs	28	College Organization	9, 82, 32
Academic Administration	9, 32	Committees of the Faculty	27
Academic Faculty	11	Comptroller	9, 29, 33
Accounting Courses	127	Concert Series	72
Accounting Division	29	Cotton Marketing	208
Administrative Counsel	29	Counseling System	73
Administrative Officers		County Agents	218
and Staff	9, 28, 29, 30	Courses of Study	87, 127
Admission	33	Credit Load Limit	83
Advanced Standing Students	33, 82	Credits	78
Aerodynamics	190	Credit, Work at Other Institutions	33, 82
Agricultural Chemistry	101, 127, 212	Criminology	201
Agricultural Curriculums	88	Crop Pest Commission	217, 230
Agricultural Economics	89, 128, 213	Curriculums	85, 87
Agricultural Education	98, 164, 217	Dairy	93, 155, 215
Agricultural Engineering	96, 111, 130, 213	Deans	9, 32
Agricultural Experiment Station	212, 226	Deferment	36
Agricultural Extension Service	212, 228	Degrees, Bachelors	86
Agriculture, Basic Curriculum	89	Degrees, Conferred 1955	234
Agriculture, School of	9, 88, 212	Degrees, Graduate	87
Agronomy	90, 132, 214	Degrees, Honorary	240, 242
Air Force	57, 59	Degrees, Professional	87
Air Science	10, 57, 134	Degrees, Requirements	83, 86
Alpha Chi Sigma	70	Demonstration Work	212, 216, 221
Alpha Phi Omega	65	Description of Courses	127
Alpha Tau Alpha, Agricultural		Designing, Textile	205
Education Fraternity	70	Dining Hall	56
Alpha Zeta, Agricultural Fraternity	70	Diploma	86
Alumni	30, 66	Discharge	74
Analytical Chemistry	149	Discipline	71
Animal Husbandry	91, 136, 214	Dormitories	29, 56
Application Forms	34	Drama	172
Architecture	112, 138	Drawing and Designing	158
Army	57, 61	Dropping Class Work	79
Arts and Sciences Curriculum	102	Dyeing, Textile	202
Arts and Sciences, School of	9, 100	Economics, Agricultural	89, 128, 213
Assistantships	44	Economics	160
Astronomy	196	Education, Agricultural	98, 164, 217
Athletic Council	28	Education Curriculum	104
Athletics	28, 75	Education, Description of Courses	161
Auxiliary Enterprises	29	Education, Industrial	106
Awards to Students	46	Educational Benefits for Veterans	35
Bachelor of Science Degree	86	Educational Counsel	10
Bacteriology	142, 215	Electrical Engineering	118, 168
Band	71, 72	Electronics	169
Banking Accounts	39	Employment	88
Beekeeping	174	Engineering, School of	10, 111
Bequest, Clemson	64	Engineering Experiment Station	230
Block C Club	71	English	171
Blue Key	71	Enrollment, Requirements to Continue	80
Board of Trustees	8, 32	Enrollment, 1893	32, 66
Board of Visitors	8	Enrollment, Summer, 1955	245
Board, Room, etc., Cost of	38	Enrollment, 1955-1956	253, 276, 277
Books and Supplies	39	Entomology	94, 174, 215
Botany	92, 143, 215	Entrance Examinations	34
Buildings	54	Entrance Requirements	33
Calendar	4, 5, 6	Examinations	78
Calhoun Mansion	56	Examinations, Placement	34
Ceramic Arts	144	Examinations Required	79
Ceramic Engineering Curriculum	114	Examinations, Special	79
Ceramic Engineering, Description of		Executive Officers	9
Courses	145	Expenses	37
Chaplains	18	Experiment Stations	212, 226, 230
Chaucer	172	Extension Service	212, 228
Chemical Engineering	116, 147	Fabric Analysis	206
Chemistry, Agricultural	101, 127, 212	Faculty	11
Chemistry Courses	149	Faculty Committees	27
Chemistry Curriculum	103	Farm Crops	132
Churches	64	Farm Machinery	130
Civil Engineering	117, 152		

INDEX—Continued

	PAGE		PAGE
Farm Motors	131	Marketing	217
Farms Department	216	Mathematics	185
Fees	37	Matriculation	5, 35
Fellowships	44	Mechanical Engineering	120, 187
Fertilizer Inspection	212, 227	Mechanics and Hydraulics	191
Field House	56	Medals	46
Financial Assistance to Students	40	Medical Fees	63
Fluid Mechanics	191	Microscopy, Textile	205
Food Preservation	182	Military Organization	10, 57
Food Service	29, 56	Military Science	10, 57, 61, 193
Forestry	99, 175, 216	Minaret Club	70
Fort Hill	56	Mineralogy	176
Foundation, Clemson College	67	Modern Languages	176, 177, 202
Foundry	183	Money and Banking	161
Four-H Club Work	216	Music	194
French	176	Music Activities	70
Freshman Counseling	73		
General Chemistry	149	Non-Resident Students	38
Genetics	133	Officers of the College	9
Geography	176	Organic Chemistry	149
Geology and Mineralogy	176	Organization, College	32
German	177	Out-of-State Tuition	38
Glee Club	70		
Government Courses	177	Payments, Schedule of	38
Government of the College	32	Pershing Rifles	71
Grade Points	80	Personnel	7, 29
Grades	78	Personnel Director	29
Grading System	78	Personnel Division	29
Graduates	66, 234, 243, 244	Phi Eta Sigma	70
Graduate Degrees	87	Phi Kappa Phi	70
Graduate Work	87	Phi Psi Textile Fraternity	70
Graduation Quality Requirements	83	Physical Chemistry	150
Grants to Students	41	Physical Education	75
Grounds and Buildings	54	Physical Plant Division	29
		Physics, Description of Courses	195
Health	28, 63	Physics, Industrial	108
Heat Power	188	Placement Examinations	34
Historical Sketch of the College	64	Placement, Students	28, 40
History	178	Post Office	66
Home Demonstration Service	212, 216, 221	Poultry Husbandry	198, 217
Honorary Degrees	240, 242	Poultry Curriculum	96
Honors	46, 83	Poultry Medicine Curriculum	109
Horticulture	95, 180, 216	Pre-Forestry	99
Hospital	28, 55	President	9, 11, 32
Hotel, The Clemson House	29, 56	Pre-Veterinary Medicine Curriculum	100
Housing for Married Students	56	Professional Degree	87
Hydraulics and Mechanics	191	Psychology	199
		Publications	30, 71, 217, 228
Incomplete Work	79	Public Relations, Office of	30, 66
Industrial Arts	182	Public Service	211
Industrial Education	106	Public Speaking	172
Industrial Engineering	183	Purchasing Division	29
Industrial Management	107, 184		
Industrial Physics	108	Quality Requirements for Graduation	83
Infirmary (See Hospital)	55		
Information, General	32	Radio Communication	170
Instructional Assistants	26	Re-examinations	79
Iota Lambda Sigma, Industrial Education Fraternity	70	Refunds to Students	37
Itinerant Teacher Training	231	Registrar's Office	28
		Registration for Selective Service	36
Kinetics	191	Registration Period	5
Knitting Courses	206	Religion, Courses in	64, 200
Knitting Option	126	Religious Influences	64
		Remittances	38
Landscape Design	180	Reports	78
Languages, Modern	176, 177, 202	Requirements for Admission	33
Laundry Building	29, 56	Requirements for Classification	82
Library	10, 26, 54	Requirements for Degrees	83, 86
Livestock Sanitary Work	223, 229	Requirements to Continue Enrollment	80
Living Conditions	56	Research, Agricultural	226
Loan Funds, Student	40	Research, Textile	122
Location of the College	66	Reserve Officers' Training Corps	57
Loom Mechanisms	206	Rifle Team	59
		Rules for Classification	82
Machine Shop	183	Rural Sociology	89, 200, 213

INDEX—Continued

	PAGE		PAGE
Scabbard and Blade	71	Textbooks	39
Scholarships	41	Textile Chemistry	122, 202
Scholastic Regulations	78	Textile Courses . . .	122, 202, 204, 205, 207
Seed Certification	218	Textile Engineering	124
Selective Service Regulations	36	Textile Management	204
Senior Platoon	71	Textile Manufacturing	125
Shakespeare	172	Textiles, School of	10, 122
Shop Work	182	Tiger Brotherhood	65
Short Courses and Conferences	231	Transcripts of Records	39
Sigma Pi Sigma	70	Trustees	8, 32
Sigma Tau Epsilon	70	Tuition	38
Sirrine Foundation	122		
Societies, Engineering	70	Uniforms	38
Sociology	201		
Sociology, Rural	89, 200, 213	Veterans, Educational Benefits	35
Soil Testing	218	Veterans' Housing	56
Spanish	202	Visitors, Board of	8
Statistics	129, 186	Visual Instruction	217
Student Affairs	28, 33	Vocational Agricultural	
Student Aid and Placement	28, 40	Education	98, 164, 217
Student Banking Accounts	39		
Student Center	28, 33, 64, 73	Weaving and Designing	205
Student Clubs	70	Withdrawals	79
Student Grants	41	Women Students	56
Student Health Service	28, 63	Workshop	182, 183
Student Register	233		
Students, Women	56	Yarn Manufacturing	207
		Y. M. C. A.	28, 55, 64, 73
Tau Beta Pi, Engineering Fraternity ..	70		
Teacher Training	161	Zoology	208, 215