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CLEMSON COLLEGE RECORD

1958—1959

This general college catalog contains information of particular interest to prospective students and to undergraduates. Students interested in graduate work should request the Graduate School Bulletin from the Dean of the Graduate School or the Registrar.

The Information section on pages 35 to 81 contains information about admission requirements, expenses, buildings and grounds, housing facilities and ROTC. Educational benefits for veterans and current Selective Service regulations may be found on pages 40 and 41.

The twenty-nine curriculums of the College are listed on page 105 and the Schools and their major courses are described in detail beginning on the following pages: Agriculture, page 106; Architecture, page 118; Arts and Sciences, page 121; Engineering, page 131; Textiles, page 141.

The courses of the College are listed alphabetically in the Description of Courses section beginning on page 106.

For information on admissions, entrance and placement examinations, and transfer credits write the Registrar. For information on family housing on the campus, write the Director of Auxiliary Enterprises.

**THE
CLEMSON
AGRICULTURAL
COLLEGE**

RECORD
SIXTY-SIXTH YEAR

CATALOG NUMBER
1958-1959

Preliminary Announcements 1959-1960

In Memoriam

ROBERT FRANKLIN POOLE

PRESIDENT

July 1, 1940 - June 6, 1958

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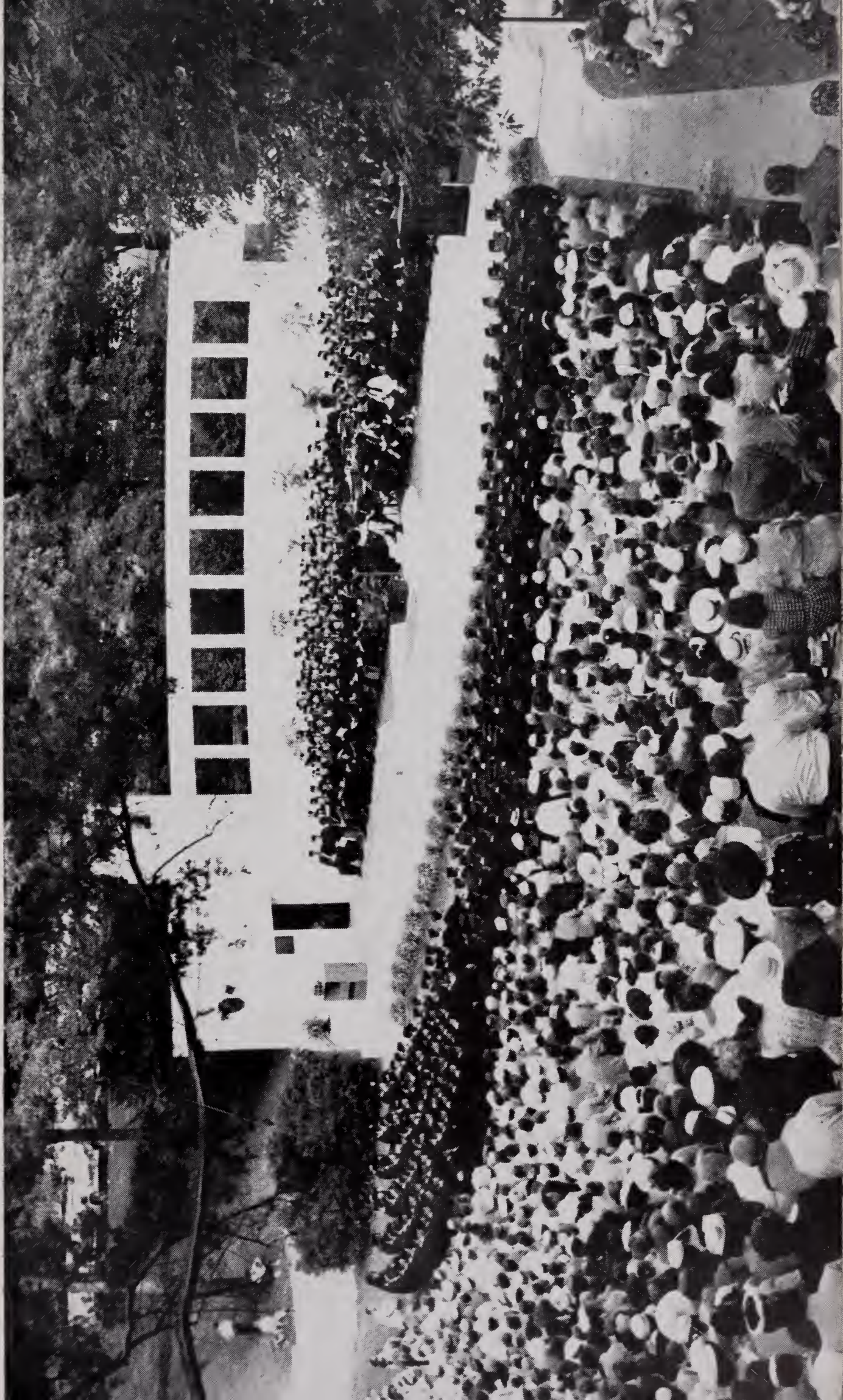
SUMMER TERM 1958

Matriculation, new students	June 9
Matriculation and Registration	June 10
Classes begin	June 11
Independence Day Holidays	July 4, 5
Examinations	August 6, 7
Faculty meeting to consider candidates for graduation	August 9

SESSION 1958-1959

Matriculation, new students	September 11
Registration, new students	September 15
Matriculation and Registration, current students	September 15, 16
Last day to add a subject	September 30
Last day to drop a subject without record of drop ..	October 14
State Fair Holidays	October 23-25
Mid-Semester Reports due	November 13
Thanksgiving Holidays	November 27-29
Christmas Holidays begin at 12 noon	December 20
Classes resumed	January 5
Examinations begin	January 22
Faculty meeting to consider candidates for graduation	January 30
Matriculation, new students	February 2
Registration, new students	February 4
Matriculation and Registration, current students	February 5
Last day to add a subject	February 19
Last day to drop a subject without record of drop ...	March 5
Easter Holidays	March 27-30
Mid-Semester Reports due	April 6
Examinations begin	May 28
Faculty meeting to consider candidates for graduation	June 5
Commencement	June 7

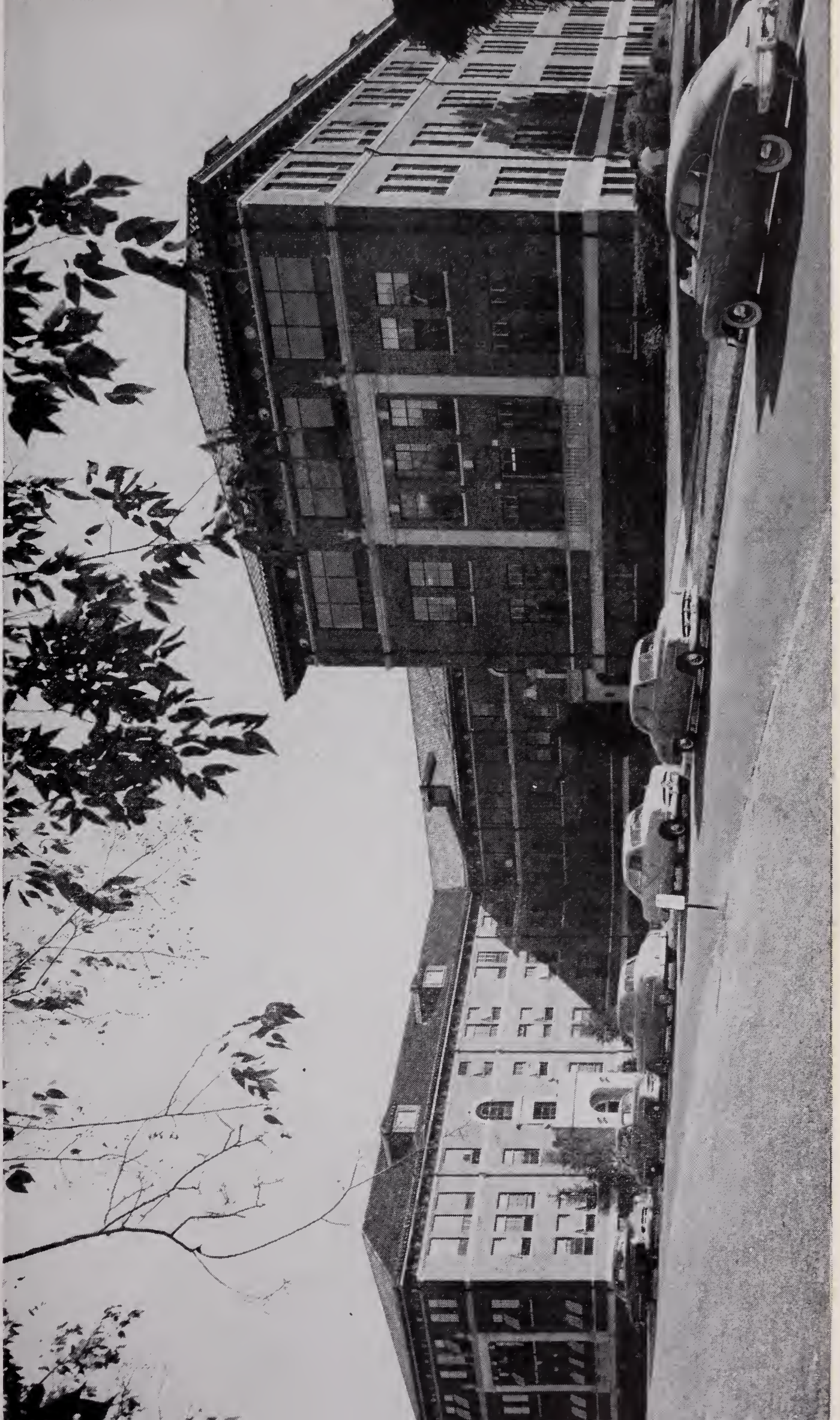
Graduating Exercises Are Held In Clemson's Picturesque Outdoor Theater



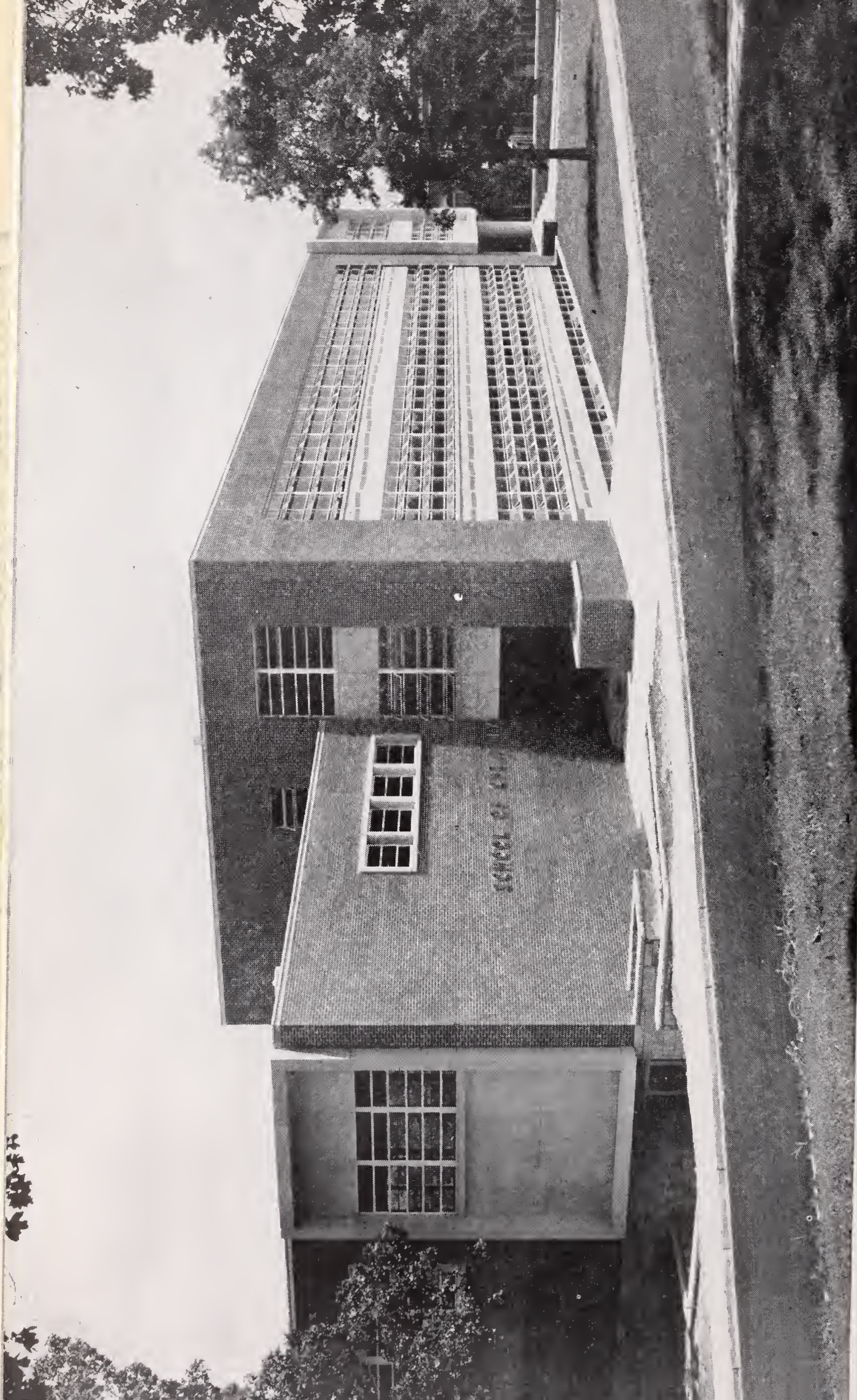


Olin Hall And Its Excellent Equipment Were Given To Clemson By The Olin Foundation To Aid In The Study Of Ceramic Engineering

One Of The Largest Textile Schools In The World Is Housed In Sirmine Hall Which Contains Two And A Half Acres Of Floor Space

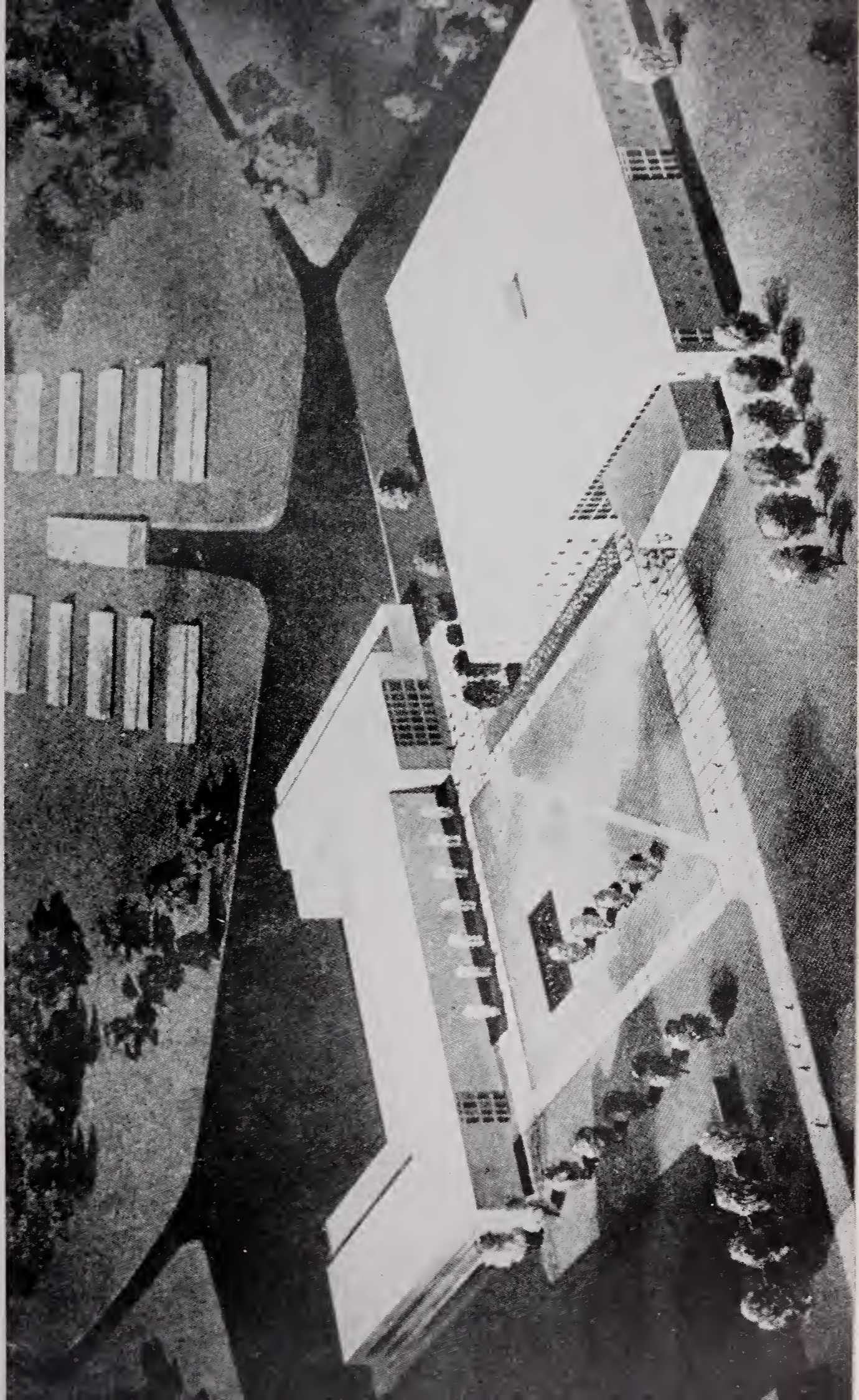


VIEW FROM SOUTH

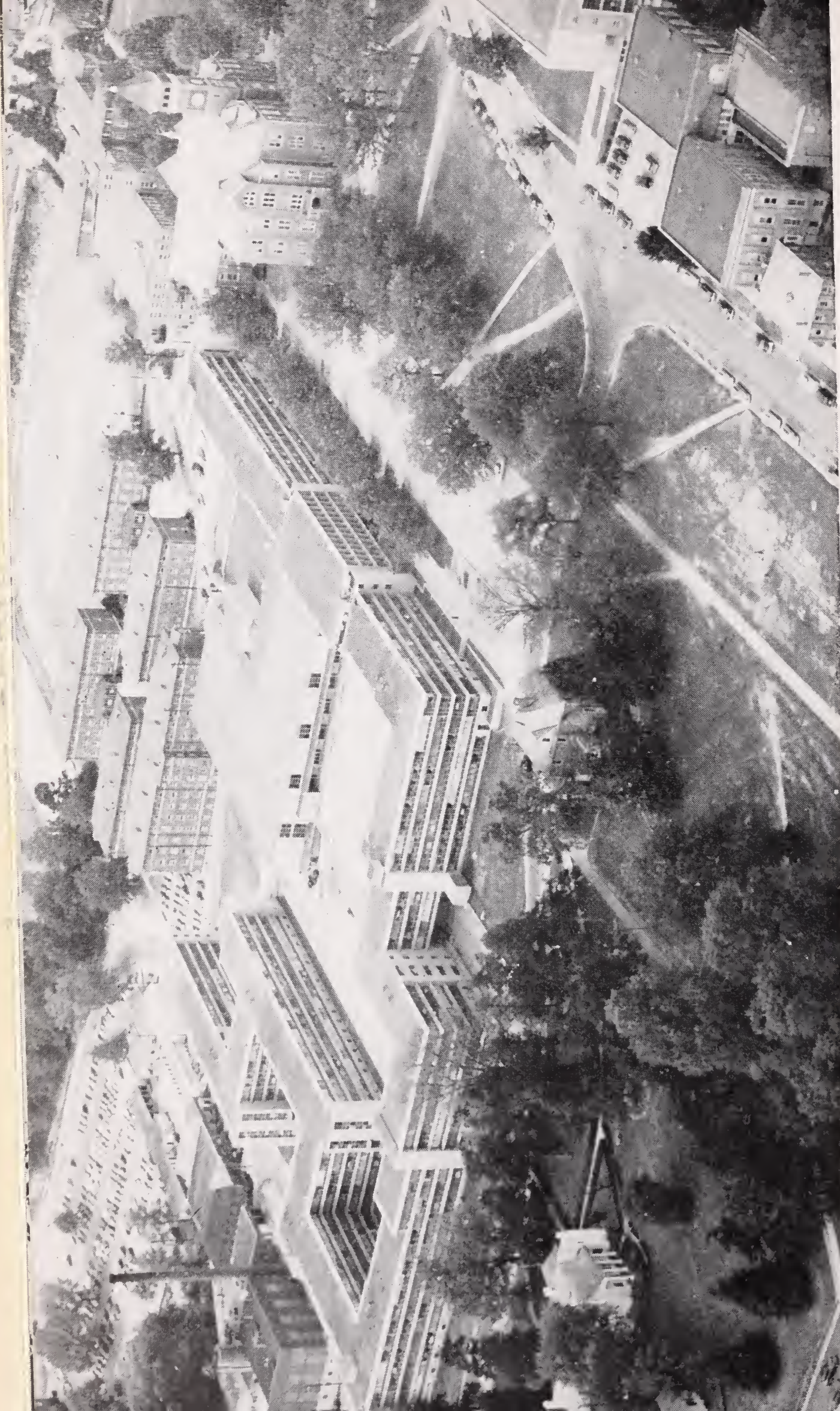


The Department Of Chemistry, Which Serves Every Clemson Student, Occupies This Modern Structure

The \$3,500,000.00 Robert Franklin Poole Agricultural Center Completed In 1955 For The Advancement Of Teaching, Research And Extension



REAR VIEW

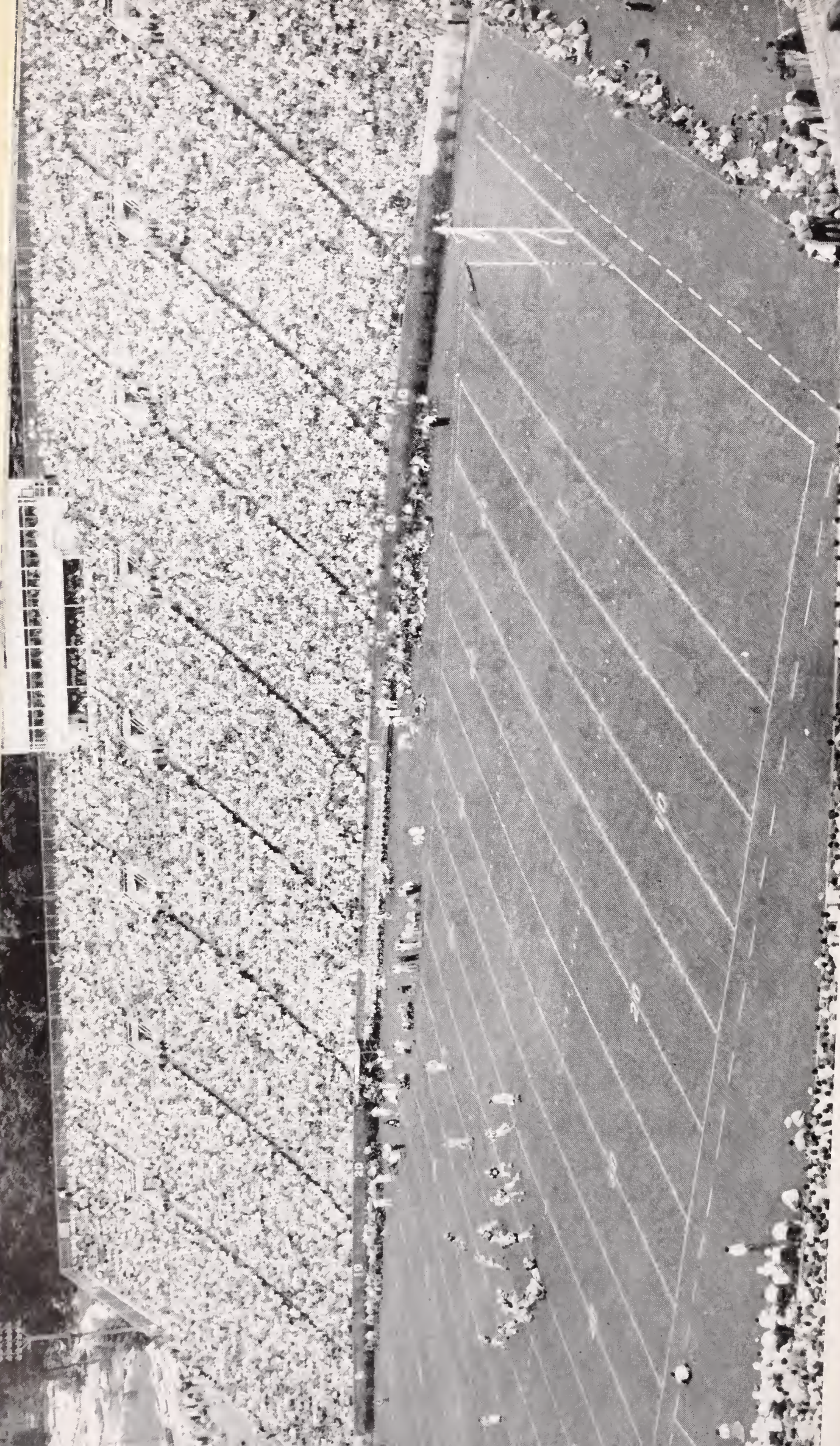


Living Quarters For Clemson Students Are In The New \$5,000,000.00 Dormitory Group And Student Activities Center

The School Of Architecture Building Was Completed In September 1958



MEMORIAL STADIUM



Clemson's Colorful Homecoming Activities Take Place In Memorial Stadium, Home Field Of The Clemson Football Teams

SUMMER TERM 1959

Matriculation, new students	June 15
Matriculation and Registration	June 16
Classes begin	June 17
Independence Day Holiday	July 4
Examinations	August 12, 13
Faculty meeting to consider candidates for graduation	August 15

SESSION 1959-1960

Matriculation, new students	September 10
Registration, new students	September 14
Matriculation and Registration, current students	September 14, 15
Last day for Matriculation	September 22
Last day to add a subject	September 29
Last day to drop a subject without record of drop ..	October 13
State Fair Holidays	October 22-24
Mid-semester reports due	November 12
Thanksgiving Holidays	November 26-28
Christmas Holidays begin at 12 noon	December 19
Classes resumed	January 4
Examinations begin	January 21
Faculty meeting to consider candidates for graduation	January 29
Matriculation, new students	February 1
Registration, new students ..	February 3
Matriculation and Registration, current students	February 4
Last day for matriculation	February 11
Last day to add a subject	February 18
Last day to drop a subject without record of drop ...	March 3
Mid-semester reports due	April 4
Easter Holidays	April 15-18
Examinations begin	May 26
Faculty meeting to consider candidates for graduation	June 3
Commencement	June 5

• 1959 •

<p>JAN</p> <p>S M T W T F S</p> <p>1 2 3</p> <p>4 5 6 7 8 9 10</p> <p>11 12 13 14 15 16 17</p> <p>18 19 20 21 22 23 24</p> <p>25 26 27 28 29 30 31</p>	<p>FEB</p> <p>S M T W T F S</p> <p>1 2 3 4 5 6 7</p> <p>8 9 10 11 12 13 14</p> <p>15 16 17 18 19 20 21</p> <p>22 23 24 25 26 27 28</p>	<p>MAR</p> <p>S M T W T F S</p> <p>1 2 3 4 5 6 7</p> <p>8 9 10 11 12 13 14</p> <p>15 16 17 18 19 20 21</p> <p>22 23 24 25 26 27 28</p> <p>29 30 31</p>	<p>APRIL</p> <p>S M T W T F S</p> <p>1 2 3 4</p> <p>5 6 7 8 9 10 11</p> <p>12 13 14 15 16 17 18</p> <p>19 20 21 22 23 24 25</p> <p>26 27 28 29 30</p>
<p>MAY</p> <p>1 2</p> <p>3 4 5 6 7 8 9</p> <p>10 11 12 13 14 15 16</p> <p>17 18 19 20 21 22 23</p> <p>24 25 26 27 28 29 30</p>	<p>JUNE</p> <p>1 2 3 4 5 6</p> <p>7 8 9 10 11 12 13</p> <p>14 15 16 17 18 19 20</p> <p>21 22 23 24 25 26 27</p> <p>28 29 30</p>	<p>JULY</p> <p>1 2 3 4</p> <p>5 6 7 8 9 10 11</p> <p>12 13 14 15 16 17 18</p> <p>19 20 21 22 23 24 25</p> <p>26 27 28 29 30 31</p>	<p>AUG</p> <p>1</p> <p>2 3 4 5 6 7 8</p> <p>9 10 11 12 13 14 15</p> <p>16 17 18 19 20 21 22</p> <p>23 24 25 26 27 28 29</p>
<p>SEPT</p> <p>1 2 3 4 5</p> <p>6 7 8 9 10 11 12</p> <p>13 14 15 16 17 18 19</p> <p>20 21 22 23 24 25 26</p> <p>27 28 29 30</p>	<p>OCT</p> <p>1 2 3</p> <p>4 5 6 7 8 9 10</p> <p>11 12 13 14 15 16 17</p> <p>18 19 20 21 22 23 24</p> <p>25 26 27 28 29 30 31</p>	<p>NOV</p> <p>1 2 3 4 5 6 7</p> <p>8 9 10 11 12 13 14</p> <p>15 16 17 18 19 20 21</p> <p>22 23 24 25 26 27 28</p> <p>29 30</p>	<p>DEC</p> <p>1 2 3 4 5</p> <p>6 7 8 9 10 11 12</p> <p>13 14 15 16 17 18 19</p> <p>20 21 22 23 24 25 26</p> <p>27 28 29 30 31</p>

• 1960 •

<p>JAN</p> <p>S M T W T F S</p> <p>1 2</p> <p>3 4 5 6 7 8 9</p> <p>10 11 12 13 14 15 16</p> <p>17 18 19 20 21 22 23</p> <p>24 25 26 27 28 29 30</p>	<p>FEB</p> <p>S M T W T F S</p> <p>1 2 3 4 5 6</p> <p>7 8 9 10 11 12 13</p> <p>14 15 16 17 18 19 20</p> <p>21 22 23 24 25 26 27</p> <p>28 29</p>	<p>MAR</p> <p>S M T W T F S</p> <p>1 2 3 4 5</p> <p>6 7 8 9 10 11 12</p> <p>13 14 15 16 17 18 19</p> <p>20 21 22 23 24 25 26</p> <p>27 28 29 30 31</p>	<p>APRIL</p> <p>S M T W T F S</p> <p>1 2</p> <p>3 4 5 6 7 8 9</p> <p>10 11 12 13 14 15 16</p> <p>17 18 19 20 21 22 23</p> <p>24 25 26 27 28 29 30</p>
<p>MAY</p> <p>1 2 3 4 5 6 7</p> <p>8 9 10 11 12 13 14</p> <p>15 16 17 18 19 20 21</p> <p>22 23 24 25 26 27 28</p> <p>29 30 31</p>	<p>JUNE</p> <p>1 2 3 4</p> <p>5 6 7 8 9 10 11</p> <p>12 13 14 15 16 17 18</p> <p>19 20 21 22 23 24 25</p> <p>26 27 28 29 30</p>	<p>JULY</p> <p>1 2</p> <p>3 4 5 6 7 8 9</p> <p>10 11 12 13 14 15 16</p> <p>17 18 19 20 21 22 23</p> <p>24 25 26 27 28 29 30</p>	<p>AUG</p> <p>1 2 3 4 5 6</p> <p>7 8 9 10 11 12 13</p> <p>14 15 16 17 18 19 20</p> <p>21 22 23 24 25 26 27</p> <p>28 29 30 31</p>
<p>SEPT</p> <p>1 2 3</p> <p>4 5 6 7 8 9 10</p> <p>11 12 13 14 15 16 17</p> <p>18 19 20 21 22 23 24</p> <p>25 26 27 28 29 30</p>	<p>OCT</p> <p>1</p> <p>2 3 4 5 6 7 8</p> <p>9 10 11 12 13 14 15</p> <p>16 17 18 19 20 21 22</p> <p>23 24 25 26 27 28 29</p>	<p>NOV</p> <p>1 2 3 4 5</p> <p>6 7 8 9 10 11 12</p> <p>13 14 15 16 17 18 19</p> <p>20 21 22 23 24 25 26</p> <p>27 28 29 30</p>	<p>DEC</p> <p>1 2 3</p> <p>4 5 6 7 8 9 10</p> <p>11 12 13 14 15 16 17</p> <p>18 19 20 21 22 23 24</p> <p>25 26 27 28 29 30 31</p>

THE
CLEMSON
AGRICULTURAL
COLLEGE
RECORD

PART I

Personnel

PART I—Personnel

BOARD OF TRUSTEES

LIFE MEMBERS

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

TERM EXPIRES 1960

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

TERM EXPIRES 1962

J. F. MCLAURIN	Bennettsville, Marlboro County
W. A. BARNETTE	Greenwood, Greenwood County
A. M. QUATTLEBAUM	Florence, Florence County

G. E. METZ, <i>Secretary</i>	Clemson
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BOARD OF VISITORS

1958

James A. Rogers	Florence
(Hold-over Member)	
Frank Barnes, Sr.	Rock Hill
L. L. Holmes, Sr.	Johnston
Winston A. Lawton	Estill
Rodman Lemon	Barnwell
Oswald Lightsey	Hampton
W. T. McClure, Sr.	Westminster
J. Poyas Marvin	White Hall
Charles C. Moore	Spartanburg
W. J. Neely	Rock Hill
E. S. Reid	Hartsville
E. Craig Wall	Conway

EXECUTIVE OFFICERS

ROBERT COOK EDWARDS, B.S.	<i>Acting 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>
ROBERT COOK EDWARDS, B.S.	<i>Vice-President for Development</i>

ADMINISTRATIVE OFFICERS AND STAFF

PRESIDENT'S OFFICE

ROBERT COOK EDWARDS, B.S.	<i>Acting 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</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>
JAMES BEASLEY MONROE, M.S.	<i>Head, Department of Agricultural Education</i>
ABSALOM WEST SNELL, M.S.	<i>Head, Department of Agricultural Engineering**</i>
GILBEART HOOPER COLLINGS, Ph.D.	<i>Head, Department of Agronomy and Soils</i>
RICHARD FERMAN WHEELER, Ph.D.	<i>Head, Department of Animal Husbandry</i>
WILLIAM MONROE EPPS, Ph.D.	<i>Head, Department of Botany and Bacteriology</i>
BEN EDMUND GOODALE, M.S.	<i>Head, Department of Dairying</i>
JAMES HARVEY COCHRAN, Ph.D.	<i>Head, Department of Entomology and Zoology</i>
KOLOMAN LEHOTSKY, Ph.D.	<i>Head, Department of Forestry</i>
THOMAS BENJAMIN HAGLER, Ph.D.	<i>Head, Department of Horticulture</i>
CHARLES LEE MORGAN, M.S.	<i>Head, Department of Poultry</i>

SCHOOL OF ARCHITECTURE

HARLAN EWART McCLURE, M.Arch., A.I.A. ...	<i>Dean, School of Architecture</i>
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*See also School of Agriculture Staff, including Public Service Activities, on page 233.

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

SCHOOL OF ARTS AND SCIENCES

HOWARD LOUIS HUNTER, Ph.D. *Dean, School of Arts and Sciences*
 FLOYD IRVING BROWNLEY, JR., Ph.D.

Acting Head, Department of Chemistry and Geology

HEADLEY MORRIS COX, Ph.D.** *Head, Department of English and
 Modern Languages*

CLAUDE BETHUNE GREEN, Ph.D. *Acting Head, Department of English
 and Modern Languages*

WALLACE DABNEY TREVILLIAN, Ph.D. —

Head, Department of Industrial Management

DAWSON CLEMENT SHELDON, Ph.D. *Head, Department of Mathematics*

LORENZ DITMAR HUFF, Ph.D. *Head, Department of Physics*

HOWARD LOUIS HUNTER, Ph.D. —

Acting Head, Department of Secondary Education

CARL LAFAYETTE EPTING, M.A. *Head, Department of Social Sciences*

SCHOOL OF ENGINEERING

JAMES HAGOOD SAMS, JR., Ph.D. *Dean, School of Engineering*

ABSALOM WEST SNELL, M.S. —

*Head, Department of Agricultural Engineering**

GILBERT CHASE ROBINSON, B.Cer.E. —

Head, Department of Ceramic Engineering

CHARLES EDWARD LITTLEJOHN, Ph.D. —

Head, Department of Chemical Engineering

WALTER LEE LOWRY, JR., M.C.E., *Head, Department of Civil Engineering*

DOUGLAS WILSON BRADBURY, B.M.E. *Acting Head,
 Department of Drawing and Design*

JAMES NORTON THURSTON, Sc.D. —

Head, Department of Electrical Engineering

DONALD DEXTER CURTIS, M.S.**—

Head, Department of Engineering Mechanics

ROBERT WARDLAW MOORMAN, Ph.D. —

Acting Head, Department of Engineering Mechanics

DEWEY CLIFTON BROCK, 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

SCHOOL OF TEXTILES

GASTON GAGE, M.Ed. *Dean, School of Textiles*

JOSEPH LINDSAY, JR., M.S. —

Head, Department of Textile Chemistry and Dyeing

WILLIAM THOMAS RAINEY, JR., Ph.D. *Head, Department of Textile
 Research*

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

**On leave.

ARTHUR ERNEST MCKENNA, M.S. —

Head, Department of Weaving and Designing

GASTON GAGE, M.Ed. *Head, Department of Yarn Manufacturing*

GRADUATE SCHOOL

JACK KENNY WILLIAMS, Ph.D. *Dean of the Graduate School*

DIRECTOR OF THE LIBRARY

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

Director of the Library

AIR SCIENCE AND MILITARY SCIENCE

CLAUDE BRYANT THOMPSON, B.S., Colonel, U. S. Air Force —

Professor of Air Science

GEORGE ARCHIBALD DOUGLASS, B.S., M.S., Colonel, U. S. Army —

Professor of Military Science and Tactics

EDUCATIONAL COUNCIL

R. C. EDWARDS, *Acting President*; F. M. KINARD, *Dean of the College*;
W. T. COX, M. D. FARRAR, GASTON GAGE, J. W. G. GOURLAY, H. L.
HUNTER, J. W. JONES, H. E. MCCLURE, J. H. SAMS, K. N. VICKERY, J. K.
WILLIAMS, M. A. WILSON, and G. E. METZ, *Secretary*.

ACADEMIC FACULTY*

ROBERT COOK EDWARDS

Acting President

B.S., Clemson Agricultural College

FRANCIS MARION KINARD

Dean of the College, 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, *Assistant Professor of English.*

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

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

B.E.E., Clemson Agricultural College, 1943; M.S., Oklahoma A & M College, 1950; Ph.D., University of Florida, 1956.

ADKINS, THEODORE ROOSEVELT, JR., *Assistant Professor of Entomology and Zoology.*

B.S., 1952, M.S., 1954, Ph.D., 1958, Alabama Polytechnic Institute.

ALEXANDER, PAUL MARION, *Assistant Professor of Botany.*

B.S., California State Polytechnic College, 1953; M.S., 1955, Ph.D., 1958, Ohio State University.

ALLEY, FORREST CHRISTOPHER, *Assistant Professor of Chemical Engineering.*

B.S., 1951, M.S., 1956, Alabama Polytechnic Institute.

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.

ANDERSON, JAMES HENRY, *Associate Professor of Agricultural Engineering.*

B.S., University of Georgia, 1949; M.S., North Carolina State College, 1954; Ph.D., Iowa State College, 1957.

ARMSTRONG, GEORGE MILLER, *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.

ARRINGTON, CHARLES ANTHONY, *Assistant Professor of Religion.*

B.S., Clemson Agricultural College, 1933; B.D., Southern Baptist Theological Seminary, 1938; S.T.M., Union Theological Seminary, 1948.

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, *Associate Professor of Electrical Engineering.*

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

BANISTER, ROBERT ALLEN, *Associate Professor of Drawing and Design.*

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

BARLAGE, WILLIAM BERDELL, JR., *Assistant Professor of Chemical Engineering.*

B.S., Lehigh University, 1954; M.Ch.E., University of Virginia, 1955; Graduate Work, North Carolina State College, 1955-1958.

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

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

*Faculty list compiled October 1, 1958.

†On leave.

- BEAL, RICHARD BENJAMIN, JR., *Assistant Professor of Military Science and Tactics.*
Major, Infantry, United States Army; B.S., Georgetown University, 1950; Army Language School, 1952; Associate Infantry Officers' Advanced Course, The Infantry School, 1955.
- BELL, MARSHALL CORNETT, *Associate Professor of Mathematics.*
A.B., 1933, M.A., 1936, University of North Carolina.
- BENNETT, RICHARD HEBER, JR., *Assistant Professor of Physics.*
A.B., Trinity College, 1917; B.S., 1921, M.S., 1922, Emory University; M.S., Union College, 1923.
- BIGGS, GILBERT WARREN, *Associate Professor of Economics.*
B.S., 1946, M.S., 1947, Virginia Polytechnic Institute; Ph.D., Cornell University, 1953.
- BLACKBURN, WILLIAM WHARTON, *Assistant Professor of Military Science and Tactics.*
Lieutenant Colonel, Artillery, United States Army; B.S., University of Florida, 1940; Artillery Officers' Advanced Course, Fort Sill, Oklahoma, 1950.
- BLOSS, ARNOLD MANDIGO, *Assistant Professor of Military Science and Tactics.*
Lieutenant Colonel, Armor, U. S. Army; B.S., Lehigh University, 1940; The Infantry School, 1942, 1943; The Armored School, 1948; Command and General Staff College, 1946, 1953.
- BOGGS, JAMES FRANK, *Instructor in Poultry Husbandry.*
B.S., Clemson Agricultural College, 1957.
- 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.
- BOONE, MERRITT ANDERSON,* *Associate Professor of Poultry Husbandry.*
B.S., University of Nebraska, 1941; M.S., Michigan State University, 1947.
- BOVELL, CARYL HARRISON, *Associate Professor of Electrical Engineering.*
B.S. in E.E., University of London, 1909; Graduate Work, Birmingham University, England, 1909-1910.
- BOWEN, WILLIAM CLAYTON, *Associate Professor of Agricultural 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, *Acting Head of Drawing and Design Department; Associate Professor of Drawing and Design.*
B.M.E., Clemson Agricultural College, 1940; Graduate Work, Virginia Polytechnic Institute, Summer, 1948, University of Michigan, Summer, 1958.
- BRADY, RUFUS HOLLAND, JR., *Instructor in Architecture.*
B.Arch., University of Michigan, 1950.
- BRANNON, CARROLL CLEVELAND, *Associate Professor of Dairying.*
B.S., Clemson Agricultural College, 1934; Graduate Work, Clemson Agricultural College, 1949.
- BREWER, RICHARD DALLAS, *Assistant Professor of Air Science.*
Captain, United States Air Force; B.S., The Citadel, 1952, Academic Instructors' Course, 1957.
- BREWSTER, JAMES PENDLETON,† *Professor of Mathematics.*
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- BROWN, CHARLES QUENTIN, *Assistant Professor of Geology*.
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- BROWN, JONAS WILLIAM, *Associate Professor of Mathematics*.
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- BROWN, MISS SUSAN HENRIETTA, *Instructor in Economics and Government*.
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- BROYLES, HARMON EUSTACE, *Associate Professor of Electrical Engineering*.
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Captain, Infantry, U. S. Army, B.S., Clemson Agricultural College, 1943; The Infantry School, 1943, 1953.
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B.S., Tufts College, 1922; Ph.D., Cornell University, 1927; Post Doctorate, 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.
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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.
- CASTLES, THOMAS MOORE, *Instructor in Education*.
A.B., Furman University, 1953; M.A., Columbia University, 1956; Graduate Work, Columbia University, 1956-1957.
- COCHRAN, JAMES HARVEY, *Head of Entomology and Zoology Department; Professor of Entomology and Zoology*.
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- 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.
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B.S., Virginia Polytechnic Institute, 1915; M.S., University of Illinois, 1917; Ph.D., Rutgers University, 1925.

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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.
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B.S., Louisiana State University, 1940; M.S., Iowa State College, 1941; Ph.D., Michigan State University, 1957.
- COOLEGE, HAROLD NORMAN, JR., *Assistant Professor of Architecture*.
B.S., 1943, B.Arch., 1950, Harvard University; M.A., University of Pennsylvania, 1957.
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B.S., Clemson Agricultural College, 1958.
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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.

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- FULMER, MRS. LOUISE GRAY, *Instructor in Mathematics*.
A.B., Winthrop College, 1937.
- GAGE, GASTON, *Dean, School of Textiles; Head of Yarn Manufacturing Department; Professor of Carding and Spinning*.
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- GORDON, ELBRIDGE S., *Instructor in Architecture.*
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B.S., Clemson Agricultural College, 1953; M.A., Florida State University, 1958.
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- KING, DONALD ALBERT, *Assistant Professor of Mathematics*.
A.B., Hanover College, 1950; M.S., Purdue University, 1952.
- KING, EDWIN WALLACE, JR., *Associate Professor of Entomology and Zoology*.
B.S., University of Massachusetts, 1941; M.S., Virginia Polytechnic Institute, 1947; Ph.D., University of Illinois, 1951.
- KING, GEORGE DEPEW, *Assistant Professor of Mathematics*.
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- KING, WILLIS ALONZO, *Professor of Dairying*.
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B.S., Dickinson College, 1947; Ph.D., Cornell University, 1951.
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- LAGRONE, JOHN WALLACE, *Associate Professor of Mathematics*.
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- LAMBERT, ROBERT STANSBURY, *Associate Professor of History and Government*.
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- LANDER, ERNEST MCPHERSON, JR., *Professor of History and Government*.
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- LANDERS, KNOX SCHAFFER, *Assistant Professor of Chemistry*.
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- LANE, JOHN DEWEY, *Professor of English*.
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- 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.
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- LEWIS, ALEXANDER DODGE, *Professor of Mechanical Engineering*.
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- LINDSAY, JOSEPH, JR., *Head of Textile Chemistry and Dyeing Department; Professor of Textile Chemistry and Dyeing*.
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- LITTLEJOHN, CHARLES EDWARD, *Head of Chemical Engineering Department; Professor of Chemical Engineering*.
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- LONG, JIM THOMAS,* *Associate Professor of Electrical Engineering*.
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- LONGSHORE, LESLIE CLARKE, JR., *Assistant Professor of English*.
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- LOSCHKY, DAVID JOHN, *Assistant Professor of Economics*.
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- LOWRY, WALTER LEE, JR., *Head of Civil Engineering Department; Professor of Civil Engineering*.
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- LOY, MRS. SARA GENE, *Instructor in Mathematics*.
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- LUCAS, CHARLES DEFOREST, *Assistant Professor of Engineering Mechanics*.
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- MCCORMACK, JOHN THOMAS, *Professor of Metallurgy.*
B.S., University of Chicago, 1922; B.S., Armour Institute, 1923; M.S., 1948, Ph.D., 1950, Purdue University.
- MCCUTCHEEN, ALAN JOHNSTONE, *Associate Professor of Civil Engineering.*
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- MCGARITY, HUGH HARRIS, *Associate Professor of Music Education.*
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Graduate, Rhode Island School of Design, 1922; Bradford-Durfee Textile School, 1925; B.S., Clemson Agricultural College, 1930; M.S., University of Tennessee, 1933.
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- MEEKS, CHARLES DAVENPORT, *Assistant Professor of Industrial Engineering.*
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- MEENAGHAN, GEORGE FRANCIS, *Associate Professor of Chemical Engineering.*
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 Captain, United States Air Force; Senior Pilot; B.A., Fresno State College, 1950;
 Graduate Work, Fresno State College, 1951; Academic Instructors' Course, 1958.
- MOORE, KENNETH FRASER, *Assistant Professor of Agronomy.*
 B.S., Ohio State University, 1949; M.S., University of Kentucky, 1955; Ph.D., Ohio
 State University, 1957.
- MOORMAN, ROBERT WARDLAW, *Acting Head of Engineering Mechanics
 Department, Professor of Engineering Mechanics.*
 B.C.E., Clemson Agricultural College, 1940; M.S., 1947, Ph.D., 1955, State Uni-
 versity of Iowa.
- MORGAN, CHARLES LEE, *Head of Poultry Husbandry Department; Pro-
 fessor of Poultry Husbandry.*
 B.S., 1918, M.S., 1927, University of Kentucky; Graduate Work, University of
 Wisconsin, 1931-1932.
- MORGAN, HARVEY EUGENE, JR., *Assistant Professor of Industrial Arts.*
 B.S., 1951, M.S., 1956, Clemson Agricultural College.
- MOSS, ALEX ANDREW, *Assistant Professor of Civil Engineering.*
 B.C.E., Clemson Agricultural College, 1948; M.C.E., Clemson Agricultural College,
 1956.
- NEWTON, ALFRED FRANKLIN, *Assistant Professor of Industrial Engi-
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 B.S., 1952, M.S., 1958, Clemson Agricultural College.
- NOWACK, ROBERT FRANCIS, *Associate Professor of Engineering Me-
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 B.S., Carnegie Institute of Technology, 1948; M.S., University of Pittsburgh, 1952;
 Graduate Work, Virginia Polytechnic Institute, Summers, 1954, 1955.
- O'BRIEN, ROBERT EDWARD, *Instructor in Entomology and Zoology.*
 B.S., Clemson Agricultural College, 1952.
- OGLE, WAYNE LEROY, *Associate Professor of Horticulture.*
 B.S., University of Tennessee, 1948; M.S., University of Delaware, 1950; Ph.D.,
 University of Maryland, 1952.
- OLIVEROS, ROBERT LOVELL, *Assistant Professor of Religion.*
 B.A., The Citadel, 1941; B.D., 1949, M.S.T., 1958, University of the South.
- 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.*
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- PALMER, MERRILL CRAIG, *Assistant Professor of Mathematics.*
 B.S., University of Chattanooga, 1947; M.A., Vanderbilt University, 1948; Graduate
 Work, Washington University, 1948-1950, University of Wisconsin, Summer, 1951,
 Pittsburgh University, Summer, 1952.
- PARK, EUGENE, *Associate Professor of Mathematics.*
 A.B., University of Georgia, 1939; M.A., Lehigh University, 1941; Graduate Work,
 University of Wisconsin, 1947-1948.
- PARSONS, ALBERT B., *Assistant Professor of Religion.*
 B.A., The Citadel, 1947; B.D., Southern Baptist Theological Seminary, 1950.
- PATTERSON, JAMES REID, *Associate Professor of Physics.*
 B.S., Davidson College, 1939; M.A., 1941, Ph.D., 1955, Duke University.
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 B.A., 1957, M.A., 1958, University of Virginia.
- PERRY, ROBERT LINDSAY, *Associate Professor of Mechanical Engineering.*
 B.M.E., 1947, M.M.E., 1953, Clemson Agricultural College.
- POE, HERBERT VERNON, *Associate Professor of Electrical Engineering.*
 B.S. in E.E., North Carolina State College, 1944; M.S. in E.E., A & M College of
 Texas, 1950.
- POLK, HENRY TASKER, *Professor of Chemistry.*
 B.S., 1931, M.S., 1933, University of Kentucky; Ph.D., Cornell University, 1938.
- POLLARD, JESSE IRVING, *Assistant Professor of Physics.*
 B.S., 1947, M.Ed., 1948, University of Maryland; Graduate Work, University of
 Michigan, Summers, 1950-1954.

- PORTER, DAVID DOUGLAS, *Visiting Professor of Physics*.
A.B., Westminster College, 1913; A.M., University of Pittsburgh, 1917; Graduate Work, University of Chicago, 1922-1923, Columbia University, 1929, Cornell University, Summer, 1931.
- PURSER, DAVID INGRAM, *Associate Professor of English*.
B.A., Furman University, 1937; M.A., Duke University, 1942; M.A., Middlebury College, 1955.
- RAINEY, WILLIAM THOMAS, JR., *Head of Textile Research Department, Professor of Textile Chemistry and Dyeing*.
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- 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*.
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B.S., Clemson Agricultural College, 1942, Graduate Work, North Carolina State College, 1957-1958.
- RIFE, LAWRENCE ALBERT, *Assistant Professor of Mathematics*.
B.Sc., North Dakota Agricultural College, 1940; M.A., University of Nebraska, 1947.
- RINGOLD, MRS. MAY SPENCER, *Assistant Professor of History and Government*.
B.A., Mississippi State College for Women, 1936; M.A., University of Mississippi, 1950, Ph.D., Emory University, 1956.
- 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.
- ROCHESTER, WILLIAM FRANK, *Instructor in Electrical Engineering*.
B.E.E., Clemson Agricultural College, 1949.
- ROGERS, ERNEST BRASINGTON, *Associate Professor of Agricultural Engineering*.
B.S., Clemson Agricultural College, 1948; M.S., A & M College of Texas, 1952.
- ROSTRON, JOSEPH PRUGH, *Associate Professor of Civil Engineering*.
A.A., Pasadena Junior College, 1935; B.S. in C.E., Southern Methodist University, 1941; M.C.E., Clemson Agricultural College, 1956.
- 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, *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.

- SCHIRMER, FRANK BONNELL, JR., *Professor of Chemistry*.
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- SCHOW, HORACE, JR., *Assistant Professor of Military Science and Tactics*.
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B.S., 1935, M.S., 1937, Rutgers University; Graduate Work, Michigan State College, 1941-1942, Fall, 1948.
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- SHACKELFORD, MACFARLAND, *Assistant Professor of Physics*.
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B.S., 1938, M.S., 1940, Ch.E., 1954, Oregon State College.
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B.S., Furman University, 1948; M.S., University of North Carolina, 1950; Graduate Work, University of North Carolina, 1956, 1957, 1958.
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- WATSON, CHARLIE HUGH, *Associate Professor of English.*
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- WATSON, SAMUEL MCIVER, JR., *Professor of Mechanical Engineering.*
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FOREHAND, HAROLD E., Sgt., U. S. Army, <i>Military Science and Tactics.</i>
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 PONDER, THOMAS BRADY, B.S., *Physics*.
 PRIESTER, LAMAR EDWARD, JR., B.S., *Chemistry*.
 RICE, LAURENCE BLISS, B.S., *Physics*.
 SMITH, LEE COLE, JR., B.S., *Mathematics*.
 SPRAWLS, PERRY, JR., B.S., *Physics*.
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 TRIPP, CHARLES HENRY, B.S., *Chemistry*.
 TUTTLE, WALTER ALAN, B.S., *Physics*.
 TWIGGS, HENRY CUMMING, JR., B.S., *Chemistry*.
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STANDING COMMITTEES OF THE FACULTY, 1958-1959

ADMISSIONS:

K. N. Vickery, *Chairman*; R. J. Berry, V. A. Boyd, A. H. Holt, C. M. Jones, E. A. LaRoche, A. D. Lewis, E. L. Stanley.

CURRICULA:

F. M. Kinard, *Chairman*; Joseph Lindsay, Jr., J. N. Thurston, W. D. Trevillian, M. D. Farrar, *ex officio*; Gaston Gage, *ex officio*; H. L. Hunter, *ex officio*; J. W. Jones, *ex officio*; H. E. McClure, *ex officio*; J. H. Sams, *ex officio*.

ETHICS AND RELIGION:

E. D. Stockman, *Chairman*; C. A. Arrington, J. R. R. Cooper, W. T. Cox, P. B. Holtzendorff, Jr., M. B. Hudnall, R. L. Oliveros, C. E. Raynal, Jr., T. F. Tierney.

GRADUATE COUNCIL:

J. K. Williams, *Chairman ex officio*; F. I. Brownley, W. C. Godley, C. E. Littlejohn, H. H. Macaulay, Jr., R. W. Moorman, W. T. Rainey, C. A. Reed, J. K. Reed, H. L. Hunter, *ex officio*; J. H. Sams, *ex officio*; Gaston Gage, *ex officio*; J. W. Jones, *ex officio*.

HONORS AND AWARDS:

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KRESS FUND:

W. T. Rainey, *Chairman*; J. L. Edwards, C. B. Green, R. S. Lambert, G. F. Meenaghan, C. A. Reed, J. M. Rush, M. A. Wilson, *ex officio*.

LIBRARY:

J. G. Dinwiddie, Jr., *Chairman*; G. E. Bair, J. C. Cook, H. E. McClure, J. E. Miller, R. W. Rutledge, J. W. G. Gourlay, *ex officio*.

SCHEDULE:

K. N. Vickery, *Chairman*; M. C. Bell, W. W. Blackburn, C. H. Bovell, J. L. Brock, E. J. Freeman, Gaston Gage, J. G. Guggino, E. A. Gunnin, T. J. Lindsay, C. M. McGee, R. L. Perry, E. B. Rogers, J. R. Salley, J. L. Thompson, I. A. Trively, J. B. Whitney, Jr., Roy Wood.

SOCIAL:

J. R. R. Cooper, *Chairman*; G. E. Bair, G. A. Douglass, W. C. Godley, N. N. Gray, J. E. Hair, P. B. Holtzendorff, Jr., D. G. Hughes, E. M. Lander, J. T. Lazar, J. B. McFadden, H. H. McGarity, H. H. Macaulay, Jr., G. C. Means, R. W. Moorman, K. W. Rausch, R. R. Ritchie, C. K. Sells, C. B. Thompson.

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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 Registrar and Director of Admissions

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

WILLIAM RICHARD MATTOX, B.S. ----- *Admissions Counselor*

STUDENT CENTER AND Y. M. C. A.

PRESTON BROOKS HOLTZENDORFF, JR., LL.B. —

General Secretary, Y. M. C. A.

JOHN R. ROY COOPER, M.A. —

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

NASH NEWTON GRAY, B.S. ----- *Assistant Secretary*

Y. M. C. A. ADVISORY BOARD

B. D. CLOANINGER, *Chairman*; JOSEPH LINDSAY, *Vice-Chairman*; R. C. EDWARDS, *ex officio*; C. A. ARRINGTON, G. H. AULL, W. T. COX, T. A. FOLGER, O. B. GARRISON, J. A. HENRY, F. M. KINARD, W. A. KING, R. F. KOLB, L. D. MALPHRUS, R. L. STODDARD, H. J. WEBB, T. B. YOUNG, S. M. MARTIN, *Honorary Life Member*; P. B. HOLTZENDORFF, JR., *ex officio*; C. S. SPENCER, *ex officio*.

CHAPLAINS

CHARLES ANTHONY ARRINGTON, B.S., B.D., S.T.M. —

Pastor, Baptist Church

THOMAS F. TIERNEY, C.S.P. ----- *Pastor, Catholic Church*

ROBERT LOVALL OLIVEROS, B.A., B.D., M.S.T. --- *Rector, Episcopal Church*

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

MICHAEL BENJAMIN HUDNALL, JR., B.S., B.D., *Pastor, Methodist Church*

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

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*

PETER PRESS MARAVICH, A.B., M.S. ----- *Basketball Coach*

CHRISTOPHER COLUMBUS ROBERTS, JR., A.B. -- *Assistant Basketball Coach*

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

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

CHARLES FLETCHER WALLER, A.B. ----- *Assistant Coach*

EUGENE PERRITT WILLIMON, B.S. ----- *Business Manager*

ROBERT COLE BRADLEY, B.S. ----- *Athletic Publicity Director*
 BILLY HUGH WILHELM, A.B. —
Baseball Coach and Director of Intramural Sports

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. C. ED-
 WARDS, *Alumni Member*.

STUDENT HEALTH SERVICE

JUDSON ELAM HAIR, M.D. ----- *Director of Student Health Service*
 MYRTLE DEAN ----- *X-Ray and Laboratory Technician*
 RUTH DURHAM, R.N. ----- *Director of Nurses*
 GLADYS MITCHELL, R.N. ----- *Clinical Supervisor*

DEPARTMENT OF BANDS

ROBERT E. LOVETT, B.S., M.A. ----- *Director*

ADMINISTRATION OF BUSINESS AND FINANCIAL AFFAIRS

MELFORD A. WILSON, B.S. in Commerce *Comptroller*
GRAHAM HAMILTON HILL *Budget Officer*
KENNY RIXIE HELTON *Internal Auditor*

ACCOUNTING DIVISION

TRESCOTT NEWTON HINTON, B.A. *Chief Accountant*
JOSEPH SHELOR WALKER, B.S. *Bursar*
VIVIAN RAYMOND HARRELL *IBM Supervisor*
MELVIN EUGENE BARNETTE, B.S. *Accountant*

PERSONNEL DIVISION

JOHN BAKER GENTRY, B.S., Ed.M. *Director of Personnel*
CHARLES WALLACE LOTT *Job Analyst*

PHYSICAL PLANT DIVISION

DAVID JOSEPH WATSON, B.S. *Director of Physical Plant*
JAMES CLEVELAND CAREY, JR., B.S. *Superintendent of Grounds*
RALPH SIMPSON COLLINS, B.E.E. *Superintendent of Utilities*
FRANCIS FURMAN DEAN, B.S. *Superintendent of Planning and
Engineering*
LOUIS ALEXANDER EDWARDS, B.S. *Superintendent of Buildings*

PURCHASING DIVISION

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

AUXILIARY ENTERPRISES

HENRY HUGHES HILL, JR., B.S. *Director of Auxiliary Enterprises*
THOMAS ROY RHYMES *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

R. C. EDWARDS, *Acting President*; M. A. WILSON, *Comptroller*; W. T. COX, J. B. GENTRY, G. H. HILL, H. H. HILL, T. N. HINTON, F. M. KINARD, E. S. LIBERTY, D. J. WATSON, and G. E. METZ, *Secretary*.

ADMINISTRATION OF DEVELOPMENT ACTIVITIES

ROBERT COOK EDWARDS, B.S. _____ *Vice-President for Development*

PUBLIC AND ALUMNI RELATIONS

JOSEPH EDGAR SHERMAN, B.S. _____ *Director, Public and Alumni Relations*

RAY GEORGE DAVIS, B.S. _____ *Editor, College News Bureau*

ROBERT A. JOHNSON, B.S. _____ *Editor, College Publications*

OFFICERS CLEMSON ALUMNI ASSOCIATION 1959

President

Tom S. Millford, '29 _____ Clemson, S. C.

President-Elect

Patrick N. Calhoun, '32 _____ Greensboro, N. C.

Vice-President

Jess W. Jones, '37 _____ Clemson, S. C.

Secretary

Joe Sherman, '34 _____ Clemson, S. C.

Treasurer

T. N. Hinton _____ Clemson, S. C.

National Council

Districts Term Expires

1	—1960—William M. Dillard, '36 _____	Anderson, S. C.
2	—1961—W. E. Freeman, Jr., '34 _____	Greenville, S. C.
3	—1959—F. Wayne Cannon, '31 _____	Lancaster, S. C.
4	—1960—Cecil O. Browning, '37 _____	Greenwood, S. C.
5	—1961—Hugh F. McLaurin, '31 _____	Wedgfield, S. C.
6	—1959—Oswald Lightsey, '33 _____	Hampton, S. C.
7	—1960—Dr. P. E. Myers, '43 _____	Moncks Corner, S. C.
8	—1961—J. Givens Young, '42 _____	Florence, S. C.
9	—1959—Wright Bryan, '26 _____	Cleveland, Ohio
10	—1960—Howard D. Nottingham, '35 _____	Arlington, Va.
11	—1961—J. C. Furman, '18 _____	Nashville, Tenn.
12	—1959—C. S. Anderson, '16 _____	Los Angeles, Calif.
13	—1960—Dave Rogers, '42 _____	Atlanta, Ga.
14	—1961—G. H. Aull, Jr., '44 _____	Lexington, N. C.
15	—1959—Clarence Pope, '41 _____	W. Andover, Mass.
At Large	—1960—S. C. McMeekin, '23 _____	Columbia, S. C.
At Large	—1961—A. U. Priester, Jr., '32 _____	LaGrange, Ga.
At Large	—1959—Jeff Davis, '36 _____	Albany, Ga.
Faculty Rep.	—Dr. Frank Schirmer _____	Clemson, S. C.
Faculty Rep.	—Dr. Willis King _____	Clemson, S. C.
Student Rep.	—Joe Fox _____	Clemson, S. C.

PLANNING

HOWARD EMMITT GLENN, B.S. _____ *Director of Planning*

DEVELOPMENT COUNCIL

R. C. EDWARDS, *Acting President and Vice-President for Development;*

F. M. KINARD, W. T. COX, M. A. WILSON, T. S. MILLFORD,
and G. E. METZ, *Secretary*

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, Architecture, 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 interrelationships 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 3,793 for the first semester, 1958-1959. Since the opening of the College 37,609 students have attended Clemson and of this number 13,298 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
 - A. School of Agriculture
 - B. School of Architecture
 - C. School of Arts and Sciences
 - D. School of Engineering

- E. School of Textiles
- F. The Graduate School
- G. 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
 - F. R. O. T. C. (Departments of Air Science and Military Science)
 - G. College Bands
- III. The Comptroller
 - A. Accounting Division
 - B. Personnel Division
 - C. Physical Plant Division
 - D. Purchasing Division
 - E. Auxiliary Enterprises
 - F. The Clemson House Hotel
- IV. Vice-President for Development
 - A. Public and Alumni Relations
 - B. Planning
 - C. Sponsored Research
 - D. Fund Development

REQUIREMENTS FOR ADMISSION

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

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

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

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

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 entrance examinations. Application 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 Citadel, The University of South Carolina, Winthrop College or Wofford College.

Applicants who find it more convenient to do so may take the College Entrance Examination Board Scholastic Aptitude, English Composition and Intermediate Mathematics Tests. These tests are administered four times each year in numer-

ous centers and locations over the nation and foreign countries by the College Entrance Examination Board.

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 Tests may be obtained by writing the College Entrance Examination Board, Box 592, Princeton, New Jersey.

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

Exemption Examinations. In order to meet more effectively the needs of abler students in the freshman class, Clemson offers exemption examinations in mathematics, chemistry, and American history. Eligibility to stand exemption examinations is based on performance on the entrance examination and participation is entirely voluntary. Information of exemption examinations is included with the report on entrance examinations.

Matriculation. Students upon arrival at the College at the opening of the session must report at once to the 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.

Policy on Admission of Students from Other Countries. Clemson College will accept a limited number of well qualified students from other countries. The application for admission must be in English on the official application form

furnished by the Director of Admissions. Official transcripts of all high school and college level work which the applicant has undertaken should accompany the application, plus a certificate from a competent medical authority attesting to the good health of the applicant.

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

If accepted, students from other countries should have a minimum of \$500 in their possession upon reporting to the College. This amount is sufficient to make the entrance payment which includes tuition and fees for a semester, living expenses for one-half semester, and books and supplies.

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

EDUCATIONAL BENEFITS FOR VETERANS

Public Law 550. Eligible veterans who have served in the active service in the Armed Forces for 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 \$856.80 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 1959-1960, two payments of \$137.80 to the College for tuition and fees. These payments are due according to the schedule of payments on page 43 of this catalog. Arrangements for payments other than as scheduled must be made with the College Bursar prior to the date the payment is due.

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

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

SELECTIVE SERVICE REGULATIONS

Registration. For the benefit of students who become 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 Force or Army ROTC at Clemson College may be deferred from induction, after their first semester freshman year, until after graduation. Mere enrollment in the ROTC itself is no guarantee against induction. The cadet must further remain in good standing in both

military and academic courses and continue to demonstrate his potential for becoming an effective officer.

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

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

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

EXPENSES

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

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

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

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 Charges. The College reserves the right to adjust charges to current costs. The 1959-1960 charges for regular full-time students for tuition, fees and living expenses, including board, room and laundry, are shown below:

<i>First Semester</i>	<i>South Carolina Student</i>	<i>Non-Resident Student</i>
First Payment:		
Tuition and Fees (Semester)	\$ 137.80	\$ 237.80
Living Expenses (1/2 Semester) ..	145.30*	145.30*
	<hr/>	<hr/>
Total Entrance Payment	\$ 283.10	\$ 383.10
Second Payment:		
Living Expenses (due Nov. 10)	145.30	145.30
	<hr/>	<hr/>
Total First Semester	\$ 428.40	\$ 528.40

Second Semester

First Payment:		
Tuition and Fees (Semester)	\$ 137.80	\$ 237.80

*Includes advance payment of one-half of a semester's room rent.

Living Expenses (1/2 Semester) ..	145.30	145.30
	<hr/>	<hr/>
Total Entrance Payment	\$ 283.10	\$ 383.10
Second Payment:		
Living Expenses (due April 1)	145.30	145.30
	<hr/>	<hr/>
Total Second Semester	\$ 428.40	\$ 528.40
Total for Year	\$ 856.80	\$1,056.80

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.

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

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

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

Transcripts. Official transcripts of scholastic records are issued on request. One transcript is furnished free; additional copies are issued for 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.

LIVING CONDITIONS AND COSTS

Dormitories. Cost per semester \$86.00.

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

Residence hall accommodations are rented on a semester basis and rent on all dormitories is \$86.00 per semester. Before assignment to a room can be made, an advance payment of \$43.00 for one-half of a semester's rent must be made.

Students who are enrolled in the spring semester are given priority on room assignments for the fall semester provided a room request is filed and the payment of \$43.00 made prior to July 1. Assignment after this date will be made on a first come, first served basis. New students and former students not currently enrolled will be sent necessary room application forms with the notification of acceptance.

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

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

Each student room is equipped with single-width beds,

built-in clothes lockers, study table and two chairs. Bed linen, bed cover, pillows, towels and laundry bags must be furnished by the students. Students are responsible for the cleanliness of their rooms.

There are six men's dormitories, one housing approximately 2,000 students and the others 100 each. The room fees are the same for all dormitories. Students are housed two per room with dormitory and room assignment made insofar as possible in accordance with each student's preference.

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

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

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

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

Dining Hall. Cost per semester \$180.00.

The new modern equipped and spacious Dining Hall will serve approximately 3,500 students per meal. The rate includes three meals per day served family style. The Dining Hall is under the direct supervision of a manager, who has as assistants a dietitian and other staff members.

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. The cost is \$55.00 per semester.

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

Refund of paid unused services is made on a pro rata basis, holidays excepted, provided the unused portion during the period (one-half semester) is more than two weeks.

Laundry. Cost per semester \$24.60.

The new laundry building is equipped with the latest machinery to accommodate the students and departments of the College.

Students paying laundry fees are permitted one bundle of laundry per week, with the number of articles allowed per bundle limited to the usual requirement of the majority of students. The laundry fee amounts to approximately \$1.36 per week.

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.

Laundry services will not be provided during the Christmas Holidays.

Refund of paid unused services is made on a pro rata basis, holidays excepted, provided the unused portion during the period (one-half semester) is more than two weeks.

Married Student Housing. Rentals: \$24.00, \$31.00, \$34.00 and \$42.00 per month.

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

The East Campus Apartments consist of 100 two-bedroom apartments located in 50 buildings constructed of brick veneer on concrete block. These apartments are equipped with electric stove, refrigerator, gas fired circulating heater and hot water heater. The rental is \$42.00 per month.

The Littlejohn Apartments consist of 50 two-bedroom units contained in 11 brick veneer on concrete block buildings. The monthly rental is \$31.00 for an interior unit and \$34.00 per month for an end apartment. Oil burning circulating and hot water heaters are installed in these apartments. The rental includes cold water.

The Prefabs consist of 247 two-bedroom houses and are equipped with oil burning circulating and hot water heaters. The monthly rental rate is \$24.00 and includes cold water. Students assigned these units should be prepared to repaint the interior at their expense.

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

STUDENT HEALTH SERVICE

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

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

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

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

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

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

FINANCIAL AIDS FOR UNDERGRADUATES

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

Application Procedure. Starting in February eligible students currently attending Clemson may apply for any type of financial aid available for the coming school year. Only one application is usually required to be considered for available scholarships, student employment as dormitory counselors or dining hall waiters and other specified forms of assistance. Prospective students may secure further information and application forms from the Director of Student Aid. Action on

requests for financial aid will be based primarily on scholastic and activity record, eligibility to attend Clemson, financial resources, and date application is received.

SCHOLARSHIPS FOR ENTERING FRESHMEN

These awards will be based on high school records, entrance examination scores, and other conditions specified by the committee making the selection. Completed applications must be mailed by March 1, and the College entrance examination taken by applicants not later than March 21, in order to be considered for the coming school year.

Clarendon Soil Conservation District Agricultural Scholarship. The award has a value of the annual income from \$24,000.00 provided by the Clarendon Soil Conservation District Supervisors, to be paid to the student during his four years of satisfactory undergraduate study. Recipients must be residents of Clarendon County and enroll in Agriculture at Clemson College

Leon Lowenstein Foundation Scholarships. Two \$2,400.00 awards are available annually for male freshmen who enroll in the School of Textiles, to be paid in equal installments during four years of satisfactory undergraduate study. Selection will be limited to applicants whose families have an income of \$10,000.00 or less.

R. F. Poole Memorial Scholarship Fund. To encourage academic excellence, scholarships will be given to incoming freshmen with outstanding academic potential, and awards will be made to upperclassmen who have demonstrated academic superiority.

Sears-Roebuck Agricultural Scholarships. Ten \$200.00 awards are available for freshmen from South Carolina who enroll in the School of Agriculture. An additional \$250.00 sophomore award is given the student making the highest scholastic average as a freshman Sears-Roebuck scholar.

George E. and Leila Giles Singleton Scholarship. Income from a fund donated by Mr. G. H. Singleton ('19) provides a \$300.00 award annually for a farm boy enrolled in Agriculture. Residents of Oconee, Pickens and Anderson counties are eligible, with preference in that order. The award is for an entering freshman and may be renewed for an additional year.

Smith-Douglass Agricultural Scholarships. Several \$750.00 awards are available for freshmen who enroll in the School of Agriculture, to be paid during four years of satisfactory undergraduate study. Applicants must be residents of one of the following South Carolina counties: Clarendon, Darlington, Dillon, Florence, Georgetown, Horry, Lee, Marion, Marlboro, Sumter or Williamsburg.

South Carolina Textile Manufacturers Association Scholarship. A \$2,000.00 award is available annually for freshmen who enroll in the School of Textiles, to be paid in equal installments during four years of satisfactory undergraduate study.

Southern Maid Scholarship. A four-year tuition award is available for a male freshman from South Carolina who enrolls in Chemistry, Chemical, Civil, Electrical, Industrial or Mechanical Engineering, Industrial Management or Physics. Selection is based on scholarship, leadership, character and financial need, and is paid in equal installments during four years of satisfactory undergraduate study.

Texize Chemicals, Inc., Scholarship. A \$2,000.00 award is available for a freshman enrolled in the School of Textiles, to be paid in equal installments during four years of satisfactory undergraduate study.

Western Electric Company Scholarships. Several awards consisting of tuition, fees, books and supplies are available annually for outstanding undergraduate students majoring in specified curricula in the School of Engineering, and may be renewed if satisfactory progress is made.

SCHOLARSHIPS FOR UPPERCLASSMEN

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

American Viscose Scholarship. A \$500.00 award is available annually to a rising junior or senior majoring in Textile Chemistry or Textile Engineering.

Blackman-Uhler Scholarship. A \$1,000.00 award is avail-

able annually to a rising junior majoring in Textile Chemistry, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on need, ability and evidence of good character.

Borden Agricultural Scholarship. A \$300.00 award is given annually to the rising senior having the highest average grade on all college work, who has taken two or more Dairy subjects. No application is necessary.

Burlington Industries Foundation Scholarship. A \$1,000.00 award is available annually to a rising junior majoring in Engineering or Textiles, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on leadership, scholarship and financial need.

Chemstrand Scholarship. A \$500.00 award is available to a rising senior majoring in Textiles, who is considered a superior, deserving student.

CIBA Scholarship. A \$1,000.00 award is available annually to a rising junior male student majoring in Textile Chemistry, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on scholastic ability, financial need, personality and leadership.

Coburg Dairy Scholarship. A \$1,000.00 award is available to a rising junior majoring in Dairying, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on scholarship, leadership, character and financial need.

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

Interchemical Foundation Scholarship. A \$1,000.00 award is available annually to a rising junior in Chemistry, Physics or Textile Chemistry, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on scholastic ability, personal traits and financial need.

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

Keever Starch Fellowship. A \$400.00 award is available annually to a deserving upperclassman majoring in Textiles.

National Plant Food Scholarship. A \$200.00 award is available annually to a rising senior majoring in Agronomy. Selection is based on scholarship, extracurricular activities, and promise as an agricultural worker.

Owens-Corning Fiberglas Scholarship. A \$750.00 award is available annually to a rising junior or senior majoring in Engineering or Textiles. Selection is based on scholastic ability, leadership qualities and financial resources.

Pauline Hanckel Dairy Scholarship. A \$1,000.00 award provided by the Ladies Auxiliary of the South Carolina Dairy Association is available to a rising junior majoring in Dairy-ing, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on scholarship, leadership, character and financial need.

Peace Fund Scholarship. A \$500.00 award is available annually to a rising junior or senior. Selection is based on literary ability, scholastic achievement and evidence of good character.

Pennsylvania Glass Sand Scholarship. A tuition award is given annually to an outstanding rising senior majoring in Ceramic Engineering. Selection is based on scholastic achievement. No application is necessary.

Ralston Purina Scholarship. A \$500.00 award is given annually to a rising senior in the School of Agriculture. Selection is based on scholarship, leadership, character, extracurricular activities, sincerity of purpose in agriculture and financial need.

The Ramseur Award. The V. D. Ramseur Co. of Greenville, South Carolina, annually makes a grant of \$500 to the Clemson Architectural Foundation, \$400 of which is used for a scholarship for an outstanding and needy student in the fourth year in Architecture.

Schlumberger Foundation Collegiate Award. A \$500.00 scholarship is available annually to a rising junior or senior majoring in Physics, Electrical or Mechanical Engineering, who will take at least 12 credits in electrical engineering or electronics. Selection is based on academic standing and leadership ability.

Seydel-Woolley & Company Scholarship. A \$250.00 award

is available annually to a rising junior or senior male student majoring in Textile Chemistry or Textile Engineering. Selection is based on scholastic ability, evidence of leadership potential to the southern textile industry and financial need.

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

South Carolina Dairy Association Scholarship. A \$1,000.00 award is available to a rising junior majoring in Dairying, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on scholarship, leadership, character and financial need.

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

South Carolina Poultry Improvement Association Scholarship. A \$500.00 award is available to a rising junior majoring in Poultry, to be paid in equal installments during the last two years of satisfactory undergraduate study. Selection is based on scholarship, leadership, character and financial need.

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

J. P. Stevens & Co., Inc. Scholarship. A \$2,000.00 award is available annually for freshmen who enroll in the School of Textiles, to be paid in equal installments during four years of satisfactory undergraduate study.

The Taylor-Colquitt Award. The Taylor-Colquitt Co. of Spartanburg, South Carolina, annually makes a grant of \$500 to the Clemson Architectural Foundation, \$250 of which is used as an award for an outstanding upperclassman in Architecture showing qualities of professional leadership.

United States Rubber Foundation Scholarship. A \$700.00 award is available annually to a rising junior planning a career in industry, to be paid in equal installments during the

last two years of satisfactory undergraduate study. Selection is based on proven scholastic ability and financial need.

Westinghouse Achievement Scholarship. A \$500.00 award is available annually to a rising senior majoring in Chemical, Electrical or Mechanical Engineering. Selection is based on academic achievement, demonstrated qualities of leadership and financial resources.

FINANCIAL AID FOR GRADUATE STUDY

Recipients of the following awards are selected by the respective academic departments. In addition, there are a number of assistantships for students engaged in graduate study. Further information may be obtained from the department concerned.

Alexander P. and Lydia Anderson Fellowship. Income from a fund donated by Mr. and Mrs. Anderson is available annually for one or more awards to graduate students in the biological sciences, including Bacteriology and Entomology.

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

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

Edward Orton, Jr., Fellowship. A \$1,350.00 award plus supplies is available annually to an outstanding student for graduate research in Ceramic Engineering.

Foundation for Cotton Research and Education. A limited number of \$2,500.00 awards are made to outstanding students for graduate study in Agricultural Engineering, with concentration in Ginning Engineering. The recipients are selected by the Foundation (Box 9905, Memphis 12, Tenn.) with approval of the College.

Godfrey L. Cabot Fellowship. A \$1,500.00 award (\$2,400.00 if married) is available annually to an outstanding student for graduate research in Ceramic Engineering.

Institute of Textile Technology Fellowships. One or more \$1,125.00 awards are available annually to outstanding students in the School of Textiles for further study at the Institute.

Lyles, Bissett, Carlisle and Wolfe Fellowship. A \$1,200.00

award is made annually to an outstanding fifth year student majoring in Architecture to be used for approved graduate study.

Warwick Chemical Foundation. Income from a fund, donated in memory of Manfred Caranci, is available annually for one or more awards to assist worthy students pursuing graduate study or research in Chemistry and to promote chemical education.

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

LOAN FUNDS AVAILABLE AT CLEMSON

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

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

George Cherry Foundation. Mrs. Mary Cherry Doyle has donated a sum to aid worthy and needy upperclassmen from Oconee County and the adjoining Pendleton area.

Clemson Architectural Foundation Loans. Needy Architectural students in the upper years of the professional curriculum will be considered for loans from the general fund of the Foundation provided they show professional promise.

Clemson College Foundation Fund. A limited sum from the General Foundation Fund is available for emergency student loans.

Clemson Student Loan Fund. A number of interested teachers, officers, alumni and friends have donated a sum to assist worthy students.

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

William Wilson Finley Loan Fund. A sum has been donated to assist students living in counties traversed by the Southern or Blue Ridge Railways.

Ben and Kitty Gossett Loan Fund. Income from a fund is available for loans primarily to students whose families are employed in the textile industry of South Carolina.

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

Richard Hughes Johnson Loan Fund. A sum donated by Mrs. Johnson in memory of her husband is used to aid one or more worthy students.

S. R. Rhodes Loan Fund. A sum donated by Engineering alumni in honor of Mr. Rhodes is used to assist worthy and needy junior or senior students majoring in Electrical Engineering.

Wade Stackhouse Loan Fund. Income from a fund donated by Dr. Wade Stackhouse in memory of his father is used to assist graduate students who give promise of becoming research leaders in the biological sciences.

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

STUDENT PART-TIME EMPLOYMENT

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

Current students are selected each spring to serve as hall counselors and dining hall waiters for the coming school year. Preference is given to those graduating in June or August for counselor assignments, and to entering students for table waiters. Applications must be filed after registration each semester if other part-time work is desired.

OTHER SOURCES OF FINANCIAL AID

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

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

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

Industry and Related Foundation Support. Students are often able to finance part of their education by summer employment or in some cases by alternate semesters at college and on jobs with establishments near their homes. Under certain conditions students may be eligible for loans or grants which are administered by the following agencies, *and further information should be requested directly therefrom*: A. Q. Mills, Incorporated, Timmonsville, S. C.; Agricultural Society of South Carolina, Charleston, S. C.; Albany Felt Co., Albany, N. Y. and St. Stephen, S. C.; American Enka Foundation, Enka, N. C.; Atlantic Cotton Association, through 4-H Club; Bailey Foundation, Clinton, S. C.; Calloway Mills Co., La-Grange, Ga.; Clifton Foundation, Clifton, S. C.; Esso Standard Oil Co., through 4-H Club; News-Piedmont Company, Greenville, S. C.; Hilton-Davis Chemical Co., Greenville, S. C.; Hillsboro Lodge 308 AFM, Lake View, S. C.; Edgar and

Emily Hesslein Foundation, Inc., 75 Worth St., New York, N. Y.; Inman-Riverdale Foundation, Spartanburg, S. C.; LaFrance Industries, Inc., LaFrance, S. C.; Leon Lowenstein Foundation, Inc., 1430 Broadway, New York, N. Y.; Marion, S. C. County Department of Education; Gilbert M. Maxwell Trust, Augusta, Ga.; Nickols & Co., Inc., Boston, Mass. and Johnsonville, S. C.; Norris Cotton Mill, Norris, S. C.; Piedmont Shirt Co., Greenville, S. C.; Post and Courier Foundation, Charleston, S. C.; Riegel Textile Corporation, Ware Shoals, S. C.; Southern Nitrogen Co., through 4-H Field Crop Project; Springs Foundation, Fort Mill, S. C.; Textron Foundation, Providence 3, R. I.; Tic Tac Company, Camden, S. C., and Woodside Mills, Inc., Greenville, S. C.

HONORS AND AWARDS

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

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

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

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

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

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

American Association of Textile Technologists Award. An annual award is given to the graduate having the highest

scholarship and all-round qualifications for success in the textile industry.

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

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

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

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

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

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

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

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

Society of American Military Engineers Award. The Society of American Military Engineers awards annually a gold medal with key replica to the twenty outstanding Army ROTC cadet juniors and to the twenty outstanding Army ROTC

cadet seniors enrolled in the Army General Military Science ROTC Units in colleges and universities throughout the nation who are majoring in Engineering.

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

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

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

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

United States Armor Association Award. The United States Armor Association of Washington, D. C., sponsors an annual award to the outstanding Army ROTC cadet being commissioned in Armor.

Army ROTC Flight Training Award. Awarded annually by the Carolina Aero Service, Anderson, South Carolina, to the outstanding senior Army ROTC cadet participating in the Army ROTC Flight Training Program.

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

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

Best Company Commander Award. The Professor of Mili-

tary Science and Tactics annually presents a medal to the Army ROTC company commander judged the best company commander.

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

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

Best Drilled Cadets in Army ROTC. The Professor of Military Science and Tactics sponsors annually an award to the best drilled freshman, to the best drilled sophomore and to the best drilled junior enrolled in the Army ROTC. Awards are adjudged at the completion of drill competition conducted at platoon, company and battalion level.

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

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

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

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

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

Chicago Tribune Silver Medal Awards. These awards are given annually to the two junior AFROTC cadets who are

most outstanding in military training, academic achievement and motivation for flying training.

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

Class of 1902 Awards. The members of the Class of 1902 have deposited with the Clemson College Foundation three funds of \$2,000.00 each, in recognition of the distinguished teaching services of three professors who were on the faculty at that time, and in memory of those of the class who have passed on. The income from these funds is to be awarded annually as follows: *The Williston Wightman Klugh Award*, to a worthy, earnest undergraduate student of good moral code and personality who intends to make teaching his life work; *The Rudolph Edward Lee Award*, to a worthy undergraduate student in Architecture, upon the recommendation of the faculty of that School after consideration of the student's grades, extracurricular activities and those qualities that go toward making a successful professional architect and *The Samuel Maner Martin Award*, to a worthy undergraduate student taking mathematics as a major subject.

Clemson Cadet Cup. Awarded annually by the Professor of Military Science and Tactics to a member of Company C-4, Clemson College Pershing Rifles, best displaying those qualities of leadership, dependability, military ability and devotion to duty which were exemplified in the Clemson Cadet Corps.

Commander, Best Drilled Company Award. The Professor of Military Science and Tactics makes an annual presentation of a medal to the commander of the best drilled Army ROTC company.

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

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.

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

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

Virginia Dare Award. An award of \$25.00 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.

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

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

Samuel B. Earle Award. An award established by Clemson Alumni in honor of Dean Samuel B. Earle, who ended forty-

eight years of service to Clemson College in July 1950, is given annually to an outstanding senior in the School of Engineering.

Leader, Best Drilled Platoon Award. A cup is awarded annually by the Professor of Military Science and Tactics to the leader of the Army ROTC platoon displaying outstanding proficiency in drill.

Leader, Best Drilled Squad Award. The Professor of Military Science and Tactics makes an annual presentation of a medal to the leader of the best drilled squad in Army ROTC.

The Rudolph E. Lee Award. To a worthy third year professional student in Architecture on the basis of his scholarship and professional qualities.

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

Clark Lindsay McCaslan Award. 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.

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

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

Dr. Ralph Mershon Memorial Award. The Secretary of the Army will present annually a \$250.00 prize to the outstanding Distinguished Military Graduate of a senior division Army

ROTC university or college who is commissioned in the Regular Army.

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

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

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

National Plant Food Institute Agronomy Scholarship. A \$200.00 award and key is available annually to a rising senior in Agronomy. Selection is based on scholarship, extracurricular activities, and prospective leadership.

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

Neatest Appearing Cadet Award. Each year the Executive Sergeants Club of Clemson College presents an award to the ROTC cadet presenting the neatest appearance over a period of time as judged by the Executive Sergeants.

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

"I give \$500.00 face value, Norris Cotton Mill stock . . . on condition the dividend thereon shall be applied annually to the purchase of a gold medal, to be known as the 'Norris Medal', to be awarded to the student of Clemson meriting the same at graduation, under such rules and conditions as may be prescribed by the said Board of Trustees, and which medal shall have engraved on it 'Honor habet onus' (Honor brings responsibility)."

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

Willie N. and Joe Wise Paget Scholarship. The income from

a fund donated to the College by members of their family is used annually to aid a deserving student from Saluda County.

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

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

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

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

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

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

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

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

ROTC Band Awards. Each year the Professor of Military Science and Tactics presents a medal to the outstanding second year advanced Army ROTC student in the Army ROTC Band and the outstanding basic or first year advanced Army ROTC student in the Army ROTC Band.

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

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

R. W. Simpson Medal. A medal designated as the "R. W.

Simpson Medal" is awarded annually to the best drilled cadet in the freshman, sophomore or junior class.

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

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

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

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

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

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

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

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

Wall Street Journal Student Achievement Awards. These

annual awards are given to the most outstanding senior with a concentration in Agricultural Economics, School of Agriculture, and Economics in the School of Arts and Sciences.

PLACEMENT SERVICES

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

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

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

BUILDINGS AND GROUNDS

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, the Dean of the Graduate School, the Accounting Office, the Bursar, the Personnel Office, the Purchasing Office, the Housing Office, 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. The library collection consists of some 166,000 bound volumes of books, periodicals and government publications. In addition there are thousands of unbound Federal, State, experiment station and extension service publications. The library currently receives 1,938 periodicals and 353 other continuations.

In the basement of the library building is the browsing room, a large comfortably furnished space with popular current magazines, daily newspapers and the reserve book collection. Adjoining the browsing room is a fiction collection of about 9,000 volumes.

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

chemistry, agricultural, chemical, civil and ceramic engineering, the latter built and equipped in recent years by the Olin Foundation.

Also in addition to Long Hall, the School of Agriculture has the new Robert Franklin Poole Agricultural Center, made up of the plant and animal sciences building, the food industry building and the 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, 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, and for government and industrial cotton fiber testing laboratories.

The School of Engineering is housed in Riggs Hall, Olin Hall, the new civil engineering mechanics building, a shop and laboratory building and temporary classroom structures.

The School of Architecture is housed in a new modern facility which was completed in the fall of 1958.

Tillman Hall, the old and new chemistry buildings, Long Hall, Sirrine Hall, dairy, old education, and physics buildings contain the classrooms and laboratories of the School of Arts and Sciences.

The department of Military Science similarly is housed in the physics building and the McGinty House. The department of Air Science is housed in the Agricultural Center.

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 approximately five 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, 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.

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

A laundry building was completed in 1954 equipped 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. About 25,000 acres of the College grounds are in forest stands of various types.

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.

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

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

- a. Students not physically and scholastically qualified for basic ROTC.
- b. Students who have attained age of 21 at time of entrance.
- c. Transfer students entering with 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.
- f. Students who are not citizens of the United States.

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

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

Students who complete the prescribed ROTC courses and receive a Bachelor's degree may be awarded commissions in either the Air Force or Army Reserve. Each student 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 fed, 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 Departments of Air Force and Army and accepted by the institution as a regularly enrolled student.

Currently, uniforms are provided basic ROTC students. A deposit of \$25.00 is required from each student. This is refundable when the uniform is turned in, provided there is no damage to the uniform other than normal wear.

Each advanced ROTC student is credited with \$100.00, paid to the College, commutation in lieu of uniform; this is used by the College to purchase officer type uniforms for use during the junior and senior years. The uniform becomes the property of the student when he receives a commission. Advanced ROTC students also receive commutation in lieu of subsistence at the rate of ninety cents per day for not more than 595 days. Veterans are paid these allowances in addition to the benefits authorized by the Veterans Readjustment Assistance Act if they are enrolled in the ROTC courses. In addition to all of the above benefits, provisions have been made to defer from Selective Service induction those ROTC students who satisfactorily participate in the program. A deferment agreement permits the student to complete his course of instruction, but requires that he accept a commission, if offered, to serve on active duty as an officer for a period depending on the service in which he is commissioned, and to satisfy the regular or reserve requirements as prescribed by law.

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

AIR FORCE ROTC

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

The purpose and specific objectives of the program are:

- (1) To develop in selected cadets, through a sound education and training program, the initial motivation to serve as career officers in the United States Air Force.
- (2) To develop in cadets by precept, example, and participation the attributes of character, personality, and attitudes essential for leadership.
- (3) To develop in cadets an interest in the Air Force and an understanding of its mission, organization, operations, problems, and techniques.
- (4) To provide that military education and training which will prepare cadets to discharge the duties and responsibilities required of them as Air Force officers.
- (5) To select and motivate cadets for career fields as specifically required by the United States Air Force.

The Air Force ROTC program at Clemson Agricultural College consists of the Basic and Advanced Courses. Both courses are generalized in nature and are designed to give the student a broad picture of the Air Force organization and mission and to stimulate a growing desire on the part of the student to enter the Air Force. The Basic Course consists of two years with 60 hours of classroom instruction and 30 hours Leadership Laboratory each year.

During the second year of the Basic Course a cadet may apply for admission into the two-year Advanced Course. The Advanced Course consists of 150 hours of instruction each year, 120 hours classroom instruction and 30 hours Leadership Laboratory, and 232 hours of Summer Training instruction at an air force base. If accepted into the Advanced AFROTC Course, the cadet will be placed under contract and after satisfactory completion, he will be commissioned a Second Lieutenant, United States Air Force Reserve. He will be called to active duty for a period established by the contract

and category to which he agreed and within the requirements and existing procedure of the Air Force.

Cadets of this detachment are permitted to make orientation flights in USAF aircraft at Donaldson AFB, which is approximately thirty-five miles from Clemson. These flights are usually in the local area, but field trips to other AF bases are accomplished from time to time. This enables cadets to see bases from all aspects of daily operation.

The entrance requirements into the advanced program are directly governed by the officer manning requirements of the Air Force. To become eligible for the advanced program a cadet must: (1) Make application; (2) Pass the Air Force Officer's Qualification Test administered in October of each year; (3) Pass the Air Force Physical Examination; (4) Be recommended by a board of commissioned officers; (5) Be classified as an academic junior by the College Registrar and possess a minimum cumulative grade-point ratio of 2.0. Initial selection of students accepted by the Advanced program, based on the quota allocated by higher headquarters, is made during the summer prior to their junior year. Final selection is announced on registration day of their junior year.

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

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

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

Category II—(Non-Flying) Technical Fields: This category consists of service obligated cadets enrolled in college programs leading to baccalaureate degrees, with majors in prescribed engineering and scientific fields of study, who meet physical standards for an Air Force commission and are selected for the Advanced Course. Cadets commissioned in this category are obligated for three (3) years active duty.

Category III—(Non-Flying) Non-Technical Fields. This category consists of service obligated cadets enrolled in col-

lege programs leading to a baccalaureate degree, with majors in other than engineering and scientific fields of study and are identified as possessing outstanding officer potential, and above average academically. Cadets commissioned in this category are obligated for three (3) years active duty.

Category IV—Prior Service: This category consists of service exempt cadets who have served on active duty for training and satisfied the requirements of selective service, awarded a degree and have been individually approved by higher headquarters. Cadets commissioned in this category are obligated for three (3) years active duty.

Category V—Non-Flying: Cadets are not enrolled in this category. This category is restricted to cadets originally enrolled in Category I or IA who later become physically disqualified for flying training. Cadets commissioned in this category are obligated for three (3) years active duty.

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

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

Quarters, meals, uniforms, and medical care will be provided free. Cadets are provided rail or bus transportation to and from the air base. If cadets drive their car, they are paid mileage at the rate of \$0.05 per mile from their official

residence to the base and return. In addition, they will receive \$78.00 for the four-week training period.

Those cadets who have demonstrated outstanding leadership qualities and are in the upper 25% of their class academically may be designated tentatively as Distinguished AFROTC Cadets at the end of the junior year. In September of the senior year, those tentatively designated Distinguished Cadets who achieve an outstanding Summer Training report, may be designated officially as Distinguished AFROTC Cadets. These designations are made upon recommendation by a Board of Air Force Officers and the College Registrar and are concurred in by the President of the College and Professor of Air Science.

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

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

ARMY ROTC

The Army ROTC instruction stresses an academic college level program in content, scope and intensity. Emphasis is placed on the development of the student's leadership potential. Thus, a student absorbs many qualities of leadership, bearing, discipline, judgment, and sportsmanship which will be a distinct asset in any 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 receives his commission through Army ROTC is appointed in the Army Reserve as a Second Lieutenant and called to active duty for two years or to active duty for training 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 period of active duty for training requires that the student retain his reserve commission and remain in the Ready Reserve until the eighth anniversary of the receipt of his commission. Graduates of the program who enter active duty for two years will acquire a six-year military obligation, only three of which would be in the Ready Reserve.

Outstanding Army ROTC cadets who attain grades in the upper half of the class in academic subjects and the upper third in Military Science subjects during their junior year and who possess outstanding qualities of leadership, character and aptitude for military service may, with the approval of the College President, be designated as Distinguished Military Students by the Professor of Military Science and Tactics. 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 meet only 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; must be an academic senior, and have the cumulative grade-point ratio required for graduation.

Exceptions to the above general rules may be made by the 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 over-all knowledge in military subjects. Students desiring enrollment in the Advanced Army ROTC program must, however, transfer their reserve affiliation from active to inactive (Control Group) status.

RELIGIOUS LIFE

There are six active churches at Clemson — Baptist, Methodist, Presbyterian, Lutheran, Episcopal and Roman Catholic.

Each of these churches has a program especially for college students. Three of them have full-time student workers in addition to the work of the minister.

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

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

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

HISTORICAL STATEMENT

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

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

The will in part reads:

"Feeling a great sympathy for the farmers of this State, and the difficulties with which they have to contend in their efforts to establish the business of agriculture upon a proper basis, and believing that there can be no permanent improvement in agriculture without a knowledge of those sciences which pertain particularly thereto, I have determined to devote the bulk of my property to the establishment of an Agricultural College upon the Fort Hill Place. My purpose is to establish an Agricultural College which will afford useful information to the farmers and mechanics; therefore it should

afford thorough instruction in agriculture and the natural sciences connected therewith; it should combine, if practicable, physical with intellectual education; and should be a high seminary of learning in which the graduate of the common schools can commence, pursue and finish a course of studies terminating in thorough theoretic and practical instruction in those sciences and arts which bear directly upon agriculture. . . . but to always bear in mind that the benefits herein sought to be bestowed are intended to benefit agriculture and mechanical industries. . . . I trust I do not exaggerate the importance of such an institution for developing the material resources of the State, by affording its youth the advantages of scientific culture.”

“The desire to establish such a school or college, as I have provided for in my said last will and testament, has existed with me for many years past, and many years ago I determined to devote the bulk of my property to the establishment of an Agricultural School or College. To accomplish this purpose is now the one great desire of my life.”

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

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

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

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

to convert the dream of Thomas G. Clemson into the reality of Clemson College.

The College was formally opened in July 1893, with an enrollment of 446 students. The first graduating exercises were held in December 1896, with a graduating class numbering 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.

ALUMNI RELATIONS

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

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

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

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

alumni. Trustees of the Foundation are elected by the Association.

THE SIRRINE FOUNDATION

Funds in this foundation have been contributed by the textile companies in the State and now total one million dollars. Income from this fund is used exclusively for the School of Textiles at Clemson, primarily to improve the teaching staff. Under the present plan, the textile faculty is benefitting in three ways: (1) For all faculty members retiring with the rank of associate or full professor, the retirement payments by the State are enhanced to 85 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. (4) It sponsors the branch library in the School of Textiles.

**THE
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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, the Society of American Military Engineers and the Society of Automotive Engineers.

The National Textile Manufacturing Society. Students majoring in Textile Management 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 open to Clemson students who are interested in formal singing activities. A simple voice classification is necessary for membership. Previous choral experience and the ability to read music, while desirable, are not a requirement for membership.

Throughout the academic year the Glee Club performs on the Clemson campus for such activities as the contest for the South Carolina Maid of Cotton, Religious Emphasis Week,

certain student-wide events and many state and regional organizations which hold important conventions at Clemson. The club is often invited to nearby localities to sing for civic and other organizations.

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

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

The Y. M. C. A. and the Clemson Churches are recognized through the Y. M. C. A. Cabinet and the Class Councils and organizations such as the Baptist Student Union, Brandeis Club, Canterbury Club, 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; and the Executive Sergeants Club, a local honorary military organization. Air Force students are recognized through The Arnold Air Society, a national Air Force honorary society. In addition to the Army and Air Force honor fraternities, the Senior Platoon is organized as a Fancy Drill unit, composed of Army 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. During the academic years 1955-1956 and 1956-1957, the Pershing Rifles were adjudged National Drill Champions in competition with colleges and uni-

versities throughout the country at the annual Cherry Blossom Festival, Washington, D. C.

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

Publications. Publications at Clemson are handled by clubs and organizations which carry specific responsibility for such publications. The *Blue Key Directory* is published by The Blue Key fraternity, *The Agrarian*, by the agriculture clubs. *The Bobbin and Beaker*, by the textile fraternity, *The Slip Stick*, by the engineering societies, *Y. M. C. A. Handbook* 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.

ARCHITECTURAL FOUNDATION LECTURES AND EXHIBITS

The School of Architecture at Clemson is able to present annually an outstanding series of lectures, which are open to all Clemson students, through financial grants from the Clemson Architectural Foundation. The Foundation also presents an annual schedule of at least twelve art exhibits in the Architectural School gallery, which is open to the public daily between 8:30 a.m. and 5:00 p.m.

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, has participated in the Azalea Festival and 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 Bands. Talented students, members of the Tiger Band and the Clemson College Concert Band are encouraged to join one of the Branch ROTC Bands, of which both the Air Force and the Army have units. Instruments are furnished by the College under the Departments of the Air Force and Army. These bands participate in all major military functions, including ceremonial parades and reviews. At combined ceremonies and reviews in which both the Air Force and Army participate, the two Bands are combined and function as one unit. Admission to the band is open to all ROTC personnel and is based on passing a simple audition at the beginning of the semester.

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 1958-1959:

Eleanor Steber
Ballet Russe de Monte Carlo
Melachrino Orchestra
Minneapolis Symphony Orchestra
Air Force Band

THE COUNSELING SYSTEM

Guidance has an important role at all levels of education and particularly so at the transition points such as the transfer from high school to college. To assist freshmen in this period of emotional and intellectual readjustment, a counseling program has been established. At the beginning of the freshman year, students are assigned to selected faculty members in their schools. Only fifteen or twenty freshmen are assigned to each counselor. These counselors arrange for group and individual conferences with their assigned freshmen and also are available for additional interviews as the need arises. The results of aptitude and achievement tests as well as the mid-term and semester reports of the freshmen are

given to the assigned counselors to assist them in the process of individual counseling. While this counseling system is the framework of the guidance program at Clemson, counseling opportunities are by no means confined to this system. Students are encouraged to avail themselves of the counseling opportunities available through the faculty, administrative offices, including the health service, as well as through the student programs of the local churches.

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

THE STUDENT CENTER

The student center has a student lounge with space for reading and games, a television set and music rooms. On the third floor there are meeting rooms and the student chapel. Also in this area are the offices of student publications such as *The Tiger*, student newspaper; *The Taps*, College annual; 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 over-all 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 give 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 rooms available to transients. A craft shop for the use of boys and girls is now being developed.

AUTOMOBILE PRIVILEGES AND PARKING REGULATIONS

All motor vehicles owned and operated on the campus by students, faculty and staff members must be registered with

the designated College authorities. On registering, each student, faculty or staff member will be given a copy of the parking and traffic regulations and will be issued a decal which will indicate the zone(s) in which the car may be parked.

A student's having and using an automobile often has an adverse effect on his academic work. Accordingly, the College has adopted a policy that effective at the beginning of the 1959-1960 school year, students in their freshman year at Clemson will not be permitted to operate or park any motor vehicles on the campus except on special occasions as designated from time to time by the College administration. With the beginning of the 1960-1961 school year this prohibition will be extended to all students classified as freshmen, regardless of the number of years they have attended college. Exceptions may be made for commuting students living at home and for students physically handicapped upon petition by the student to the office of the Dean of Student Affairs.

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

ATHLETICS

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

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

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

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

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

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

No student is eligible to participate in an 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.

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PART IV

Scholastic Regulations

PART IV—Scholastic Regulations

SCHOLASTIC REGULATIONS

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

The Credit System. The Semester Hour is the basis of all credits. One recitation hour or three laboratory or shop hours a week for a semester constitute a semester hour. Thus, in English 101, English Composition, 3 cr. (3,0), as you will find this subject listed in the Degrees and Curriculums, 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. Students are allowed thirty days after the beginning of the next semester in which the student is enrolled to remove the incomplete grade unless (1) an extension of time is approved by the instructor concerned and the Registrar, or (2) within one year of residence after receiving such a grade, a student repeats the conditioned course satisfactorily at Clemson, in which case no credit hours taken shall be recorded for the grade of I. A student who elects to repeat an incomplete course is responsible for notifying the Registrar's Office of his election during the semester in which the course is taken.

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

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

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

Dropping Class Work. A subject dropped after the first four weeks of class work is recorded as "Withdrew Passing"

or "Withdrew Failing" depending upon the student's grade in the course at the time the subject was dropped.

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

E—Conditioned Work. Only one opportunity shall be given a student to remove a condition (E) by a re-examination. A student who fails to pass such a re-examination shall be required to repeat the subject, hour for hour in class. Not more than 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.

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

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

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

Rescheduling Courses Passed. A student may repeat a course he has passed only if he does so within three semesters

of residence after the completion of his original enrollment in the course.

Grade Points—Former 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—Current 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.

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

(a) A student who has taken a total of 24 to 59 credit hours at Clemson must have a cumulative grade-point ratio of 1.0 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 1.3 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 1.5 or above.

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

(a) A student who has taken a total of 24 to 59 credit hours at Clemson must have a cumulative grade-point ratio of 0.8 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 has taken fewer than 90 credit hours at Clemson who fails to meet the required grade-point ratio, as indicated in the appropriate table above, may apply for re-admission after a minimum of one semester has elapsed. A student who has taken 90 or more credit hours and fails to meet the required grade-point ratio is permanently ineligible for readmission.

Students who entered prior to 1956 should refer to previous editions of the catalog for requirements for continuing enrollment and consult the Registrar concerning the specific requirements applicable.

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

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

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

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

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

(5) The time of the examination will be arranged by the student with the instructor concerned, but must be taken within one month after the date of final approval or it will be necessary for the student to initiate another request.

Work Taken at Another Institution. Clemson students may receive credit for work taken at another institution; however, approval of the work should be obtained by the student prior to scheduling the work. Information and forms relative to this approval may be obtained in the Registrar's Office. By ob-

taining advance approval the student is assured of receiving proper credit at Clemson provided he passes the work with a grade of C or higher.

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.

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.

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 1.4 or above.

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

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

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

Maximum Credit Load. The number of credits which a student may schedule in a semester is governed by his grade-point ratio—the cumulative ratio or the ratio for the previous

semester, whichever is higher. The entering freshman is restricted to the requirements of his course. Under this system, class advisers have the authority to restrict the student to any one of the following limits as indicated for each ratio:

<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

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

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

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

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

Auditing Policies. A full-time student may receive permission to audit courses insofar as the student's regularly scheduled courses and the audited courses do not exceed his maximum credit load.

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

Residence Requirement for Graduation. In order to qualify for graduation, it is required that a student must spend at least his last year of residence at Clemson.

Quality Requirements for Graduation. For graduation in the calendar year 1959, a cumulative grade-point ratio of 1.7 or above is required. In 1960, 1961, and 1962 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 an Honors 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.

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

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

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

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

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

Examinations on E's Received in Last Semester. A candidate for a degree who in the semester immediately prior to

graduation receives one or more grades of **E** shall have an opportunity of removing the unsatisfactory grades only after commencement and at the convenience of the instructor or instructors concerned.

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

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

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

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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, Engineering and Textiles. The five-year curriculum in Architecture leads to the Bachelor of Architecture degree.

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 the calendar year 1959, a cumulative grade-point ratio of 1.7 or above is required. In 1960, 1961, and 1962 a cumulative grade-point ratio of 1.8 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, all financial settlements made, and all government property and library books returned by 5 p.m. on the Tuesday preceding graduation. Residence of at least the last regular session is required for graduation.

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

A student in line for graduation at the end of a semester or summer term who meets all requirements for graduation except for a deficiency in his grade-point ratio resulting from

a deficiency of not more than six grade points shall have the privilege of making up his deficiency by standing special re-examinations under certain conditions.

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

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

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

GRADUATE DEGREES

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

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

CURRICULUMS

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

SCHOOL OF AGRICULTURE

Agricultural Economics

Agricultural Education

*Agricultural Engineering

Agronomy

Animal Husbandry

Dairy

Entomology

Forestry

Horticulture

Poultry

Pre-Veterinary

SCHOOL OF ARCHITECTURE

Architecture

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

SCHOOL OF ARTS AND SCIENCES

Applied Mathematics

Arts and Sciences

Chemistry

Education

Industrial Education

Industrial Management

Physics

**Pre-Medicine

SCHOOL OF ENGINEERING

*Agricultural Engineering

Ceramic Engineering

Chemical Engineering

Civil Engineering

Electrical Engineering

Industrial Engineering

Mechanical Engineering

SCHOOL OF TEXTILES

Textile Chemistry

Textile Management

Textile Science

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

SCHOOL OF AGRICULTURE

The School of Agriculture is composed of three main divisions: Resident Teaching, Research (Agricultural Experiment Station) and Extension (Agricultural Extension Service). Organized under the division of Resident Teaching are curriculums in Agricultural Economics, Agricultural Education, Agricultural Engineering,* Agronomy, Animal Husbandry, Dairy, Entomology, Forestry, Horticulture, Poultry, 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 —

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

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

work related to the conservation of soil, water, forests, fish, and wildlife. Agricultural Services — public 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.

BASIC CURRICULUM

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

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Bot 101 Gen. Botany	4 (3,3)	Agron 101 Farm Crops	3 (2,3)
Chem 101 Gen. Chemistry	4 (3,3)	AH 101 Types and Breeds	2 (2,0)
Engl 101 English Composition	3 (3,0)	AH 103 Types and Breeds Lab.	1 (0,3)
Math 103 Freshman Math.	5 (5,0)	Chem 102 Gen. Chemistry	4 (3,3)
AS or MS—Basic	1 (2,1)	Engl 102 English Composition	3 (3,0)
		Zool 101 Gen. Zoology	3 (3,0)
	17	Zool 103 Gen. Zoology Lab.	1 (0,3)
		AS or MS — Basic	1 (2,1)
			18

SOPHOMORE YEAR

Ag En 201 Farm Machinery	3 (2,3)	Ag Ec 202 Agric. Economics	3 (3,0)
Chem 220 Agric. Org. Chem.*	4 (3,3)	Agron 202 Soils	3 (2,3)
Econ 201 Principles of Econ.	3 (3,0)	Dairy 201 Dairying†	3 (2,3)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Engl 204 Survey of Engl. Lit.	3 (3,0)
For 205 Farm Forestry†	3 (2,3)	Phys 201 Gen. Physics	3 (3,0)
Hort 201 Gen. Horticulture	3 (2,3)	Phys 203 Gen. Physics Lab.	1 (0,3)
AS or MS — Basic	1 (2,1)	PH 201 Farm Poultry†	3 (2,3)
	20	AS or MS — Basic	1 (2,1)
			20

*Students planning to major in Agricultural Economics may substitute Math 104 for Chem 220.

†With the approval of the Class Adviser, Geol 201 may be substituted for For 205.

‡Students planning to major in Entomology or Ornamental Horticulture must schedule Ent 301 instead of Dairy 201 or PH 201.

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; pub-

lic relations research and sales work for the manufacturers of agricultural implements, fertilizers, etc.; organizational 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 Introd. to Marketing	3 (3,0)
Engl 301 Public Speaking	3 (3,0)
Gov 301 Am. G. & Pol. Par.	3 (3,0)
Approved Electives	7

19

Suggested Electives:

Ag Ec 357 Con. of Nat. Resources	3 (3,0)
Agron 302 Genetics	3 (2,3)
AS or MS — Advanced	3 (4,1)
Econ 312 Commercial Law	3 (3,0)
Phys 202 Gen Physics	3 (3,0)
Phys 204 Gen. Physics Lab.	1 (0,3)
Psych 301 Gen. Psychology	3 (3,0)

Second Semester

Ag Ec 302 Farm Management	3 (2,3)
Ag Ec 352 Public Finance	3 (3,0)
Ent 301 Elem. and Econ. Ent.	3 (2,3)
RS 301 Rural Sociology	3 (3,0)
Approved Electives	7

19

Suggested Electives:

Ag Ec 361 Mktg. Livestock	3 (3,0)
AS or MS — Advanced	3 (4,1)
Dairy 352 Advertising and Merch.	3 (3,0)
Econ 302 Money and Banking	3 (3,0)
IM 302 Industrial Management	3 (3,0)

SENIOR YEAR

Ag Ec 401 Statistics	3 (2,3)
Ag Ec 405 Seminar	1 (1,0)
Ag Ec 451 Agric. Coop.	2 (2,0)
Engl 401 Advanced Comp.	3 (3,0)
Hist 301 U. S. Since 1865	3 (3,0)
Approved Electives	7

19

Suggested Electives:

AS or MS — Advanced	3 (4,1)
Econ 314 Intermed. Econ. Theory	3 (3,0)
Gov 403 International Relations	3 (3,0)
IM 305 Income Taxation	3 (3,0)
RS 459 Rural Community	3 (3,0)

Ag Ec 406 Seminar	1 (1,0)
Ag Ec 452 Agric. Policy	3 (3,0)
Ag Ec 456 Prices	3 (3,0)
Ag Ec 460 Agric. Finance	2 (2,0)
Ag Ec 462 Applied Statistics	3 (2,3)
Approved Electives	6

18

Suggested Electives:

AS or MS — Advanced	3 (4,1)
Econ 412 International Trade	3 (3,0)
Geog 301 Econ. Geography	3 (3,0)
Hist 406 Hist. of Mfg. in U. S.	3 (3,0)
IM 307 Personnel Management	3 (3,0)

AGRICULTURAL EDUCATION

The majority of the graduates in 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 Agricultural Education are excellent, and for a num-

ber 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.

AGRICULTURAL EDUCATION

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

First Semester

Ag Ed 301 Intro. to Education	3 (2,3)
Ag En 301 Soil Conservation	3 (2,3)
Agron 301 Fertilizers	3 (3,0)
Hort 407 Landscape Design	3 (2,3)
RS 301 Rural Sociology	3 (3,0)
Approved Electives	4

19

Suggested Electives:

Ag Ec 309 Intro. to Marketing	3 (3,0)
AS or MS — Advanced	3 (4,1)
AH 306 Judging	2 (1,3)
Dairy 305 D. Cattle Judging	1 (0,3)
Hort 305 Plant Propagation	3 (2,3)
Phys 202 Gen. Physics	3 (3,0)
Phys 204 Gen. Physics Lab.	1 (0,3)
Zool 402 Animal Anat. and Phys.	3 (2,3)

Second Semester

Ag En 205 Farm Shop	3 (2,3)
AH 301 Feeds and Feeding	3 (3,0)
Ed 302 Educ. Psychology	3 (3,0)
Engl 301 Public Speaking	3 (3,0)
Ent 301 Elem. and Econ. Ent.	3 (2,3)
Approved Electives	4

19

Suggested Electives:

Ag En 352 Farm Power	3 (2,3)
Ag En 360 Farm and Home Utilit.	3 (2,3)
Agron 302 Genetics	3 (2,3)
Agron 306 Forage Crops	3 (3,0)
AS or MS — Advanced	3 (4,1)
Bact 301 Gen. Bacteriology	4 (3,3)
Dairy 304 Judging Dairy Prod.	2 (1,3)

SENIOR YEAR

Ag Ec 302 Farm Management	3 (2,3)
Bot 401 Plant Pathology	3 (2,3)
Gov 301 Am. Gov. and Pol. Par.	3 (3,0)
Hort 464 Food Preservation	3 (2,3)
Approved Electives	7

19

Suggested Electives:

Ag Ec 357 Conservation of Natural Resources	3 (3,0)
Agron 409 Cotton and Tobacco	3 (3,0)
AS or MS — Advanced	3 (4,1)
AH 310 Pork Production	3 (3,0)
AH 353 Meats	1 (1,0)
AH 401 Beef Production	3 (3,0)

Ag Ed 401 Methods in Ag Educ.	3 (2,3)
Ag Ed 406 Directed Teaching	6 (0,18)
Ag Ed 422 Prob. in Adult Educ.	3 (2,3)
Ed 458 Health Educ.†	3 (3,0)
Music 402 Music Appreciation†	3 (3,0)

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*All courses except Ag Ed 406 offered this semester are taught on an accelerated schedule for first nine weeks. Ag Ed 406, Directed Teaching, is taught off the campus in high schools for six weeks during the second half of the semester.

†Students electing Advanced AS or MS must schedule Ed 458 or Music 402 prior to the second semester of the senior year.

AGRONOMY

Agronomy at Clemson deals with the study of field crops and soils, emphasis being given to the proper production of field crops and to soil management. Graduates in Agronomy find opportunities in many technical fields related to agriculture. In addition, job opportunities exist in general farming, soil conservation and in agriculture extension. Many gradu-

ates become plant breeders and soil and crop specialists with the federal and state government experiment stations. 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

<i>First Semester</i>		<i>Second Semester</i>	
Ag En 301 Soil Conservation	3 (2,3)	Agron 302 Genetics	3 (2,3)
Agron 301 Fertilizers	3 (3,0)	Agron 306 Forage & Pasture Crops	3 (3,0)
Bact 301 Gen. Bacteriology	4 (3,3)	Agron 308 Phys. & Chem. Edaph.	3 (1,6)
Engl 301 Public Speaking	3 (3,0)	Bot 352 Plant Physiology	4 (3,3)
Ent 301 Elem. and Econ. Ent.	3 (2,3)	Approved Electives	6
Approved Electives	3		
	19		19

Suggested Electives:

AH 301 Feeds and Feeding	3 (3,0)
AS or MS — Advanced	3 (4,1)
Chem 215 Qual. Analysis	4 (2,6)
Geol 201 Agri. Geology	3 (2,3)
Phys 202 Gen. Physics	3 (3,0)
Phys 204 Gen. Physics Lab.	1 (0,3)

Suggested Electives:

Ag Ec 302 Farm Management	3 (2,3)
AS or MS — Advanced	3 (4,1)
Chem 310 Agric. Biochemistry	4 (3,3)
Dairy 352 Advertising and Merchandising	3 (3,0)
For 205 Farm Forestry	3 (2,3)

SENIOR YEAR

Agron 401 Adv. Crop & Seed Lab.	1 (0,3)	Agron 405 Plant Breeding	3 (2,3)
Agron 403 Soil Classification	2 (1,3)	or Bact 410 Soil Microbiology	3 (2,3)
Agron 409 Cotton & Tobacco	3 (3,0)	Agron 452 Soil Fert. and Man- agement	2 (2,0)
Agron 455 Seminar	1 (1,0)	Agron 456 Seminar	1 (1,0)
Bot 401 Plant Pathology	3 (2,3)	Agron 468 Intro. to Research	2 (1,3)
Approved Electives*	9	or Ent 468 Intro. to Research	2 (1,3)
	19	or Hort 468 Intro. to Research	2 (1,3)
		Gov 301 Am. G. and Pol. Par.	3 (3,0)
		Approved Electives	7
			18

Suggested Electives:

Ag Ec 309 Introd. to Marketing	3 (3,0)
Ag Ec 401 Statistics	3 (2,3)
AS or MS — Advanced	3 (4,1)
Engl 401 Advanced Comp.	3 (3,0)
Ent 305 Econ. Entomology	3 (2,3)

Suggested Electives:

Ag Ec 460 Agric. Finance	2 (2,0)
Ag En 352 Farm Power	3 (2,3)
AS or MS — Advanced	3 (4,1)
Bot 356 Taxonomy	3 (1,6)
Bot 452 Ecology	4 (2,6)
Chem 216 Quan. Analysis	4 (2,6)
Hort 456 Truck Crops	3 (2,3)

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.

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

ANIMAL HUSBANDRY MAJOR

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
AH 301 Feeds and Feeding	3 (3,0)	Agron 302 Genetics	3 (2,3)
AH 303 Feeds and Feeding Lab. ..	1 (0,3)	AH 306 Judging	2 (1,3)
AH 353 Meats	1 (1,0)	AH 310 Pork Production	3 (3,0)
AH 355 Meats Lab.	2 (0,6)	AH 314 Pork Production Lab.	1 (0,3)
Gov 301 Am. Gov't and Pol. Par. ..	3 (3,0)	Bact 301 Gen. Bacteriology	4 (3,3)
Zool 402 Animal Anat. and Phys. ...	3 (2,3)	Engl 301 Public Speaking	3 (3,0)
Approved Electives	6	Approved Electives	3
	19		19
Suggested Electives:		Suggested Electives:	
Ag Ec 309 Introd. to Marketing ...	3 (3,0)	Ag Ec 361 Mktg. Livestock	3 (3,0)
Agron 306 Forage Crops	3 (3,0)	Ag Ec 460 Agric. Finance	2 (2,0)
AH 305 Meat Grading & Selection..	2 (1,3)	Ag En 352 Farm Power	3 (2,3)
AS or MS — Advanced	3 (4,1)	Agron 301 Fertilizers	3 (3,0)
Econ 312 Commercial Law	3 (3,0)	AS or MS — Advanced	3 (4,1)
Phys 202 Gen. Physics	3 (3,0)	Chem 310 Agric. Biochemistry	4 (3,3)
Phys 204 Gen. Physics Lab.	1 (0,3)		
RS 301 Rural Sociology	3 (3,0)		

SENIOR YEAR

Ag Ec 302 Farm Management	3 (2,3)	AH 402 Horse and Sheep Prod. ...	3 (2,3)
AH 401 Beef Production	3 (3,0)	AH 406 Seminar	2 (2,0)
AH 403 Beef Production Lab.	1 (0,3)	AH 452 Animal Breeding	3 (2,3)
Dairy 403 Animal Nutrition	3 (3,0)	Approved Electives*	10
Ent 301 Elem. and Econ. Ent.	3 (2,3)		18
Approved Electives	6		
	19		
Suggested Electives:		Suggested Electives:	
Ag En 301 Soil Conservation	3 (2,3)	AS or MS — Advanced	3 (4,1)
Agron 409 Cotton and Tobacco ...	3 (3,0)	Dairy 354 Endocrinology	3 (3,0)
AS or MS — Advanced	3 (4,1)	Dairy 358 Artificial Insemination	
AH 405 Advanced Judging	1 (0,3)	of Farm Animals	3 (2,3)
Dairy 352 Advertising and		Engl 401 Advanced Comp.	3 (3,0)
Merchandising	3 (3,0)	Hort 464 Food Preservation	3 (2,3)
PH 352 Feeding and Flock Mgt. ...	3 (2,3)	Zool 404 Diseases of Animals	3 (2,3)

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

DAIRY

Opportunities in dairying are to be found everywhere. Dairy technology is in demand on large farms and in milk processing plants. Dairy Scientists are required in educational, governmental, and industrial laboratories. Business employs dairy specialists to merchandise the milk and milk products coming from the farms and factories every day. Ice cream manufacturing, milk plant operation, dairy extension specialist, milk inspection, and dairy organization work are available to the dairy graduate.

DAIRY MAJOR

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

First Semester

Agron 302 Genetics	3 (2,3)
Bact 301 Gen. Bacteriology	4 (3,3)
Dairy 301 Dairy Technology and Engineering	3 (2,3)
Dairy 305 Dairy Cattle Judging ..	1 (0,3)
Engl 301 Public Speaking	3 (3,0)
Approved Electives	6

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Suggested Electives:

Acct 201 Principles of Acct.	3 (3,0)
Ag Ec 401 Statistics	3 (2,3)
Agron 306 Forage Crops	3 (3,0)
AS or MS — Advanced	3 (4,1)
Econ 312 Commercial Law	3 (3,0)
Phys 202 Gen. Physics	3 (3,0)
Phys 204 Gen. Physics Lab.	1 (0,3)
Zool 402 Animal Anat. and Phys. .	3 (2,3)

Second Semester

AH 301 Feeds and Feeding	3 (3,0)
AH 303 Feeds and Feeding Lab. ...	1 (0,3)
Dairy 306 Market Milk†	3 (2,3)
Ent 301 Elem. and Econ. Ent.	3 (2,3)
Gov 301 Am. G. and Pol. Par.	3 (3,0)
Approved Electives	6

19

Suggested Electives:

Acct 202 Principles of Acct.	3 (3,0)
AS or MS — Advanced	3 (4,1)
AH 310 Pork Production	3 (3,0)
AH 314 Pork Production Lab.	1 (0,3)
Chem 310 Agric. Biochemistry ...	4 (3,3)
Dairy 304 Judg. Dairy Prod.	2 (1,3)
Dairy 352 Advertising and Merchandising	3 (3,0)
Dairy 354 Endocrinology‡	3 (3,0)
Dairy 358 Artificial Insemination of Farm Animals‡	3 (2,3)

SENIOR YEAR

Bact 402 Dairy Bacteriology	3 (2,3)
Dairy 401 Dairy Plant Manage- ment	3 (2,3)
Dairy 403 Animal Nutrition	3 (3,0)
Dairy 409 Seminar	2 (2,0)
Approved Electives	7

18

Suggested Electives:

Agron 301 Fertilizers	3 (3,0)
AS or MS — Advanced	3 (4,1)
Econ 313 Commercial Law	3 (3,0)
Geog 301 Econ. Geography	3 (3,0)
Psych 301 Gen. Psychology	3 (3,0)

AH 452 Animal Breeding	3 (2,3)
Dairy 402 Dairy Manufactures ..	4 (3,3)
Dairy 410 Seminar	2 (2,0)
Dairy 452 Feed. and Mgt.	3 (2,3)
Approved Electives*	6

18

Suggested Electives:

Ag Ec 302 Farm Management	3 (2,3)
Ag Ec 460 Agric. Finance	2 (2,0)
AS or MS — Advanced	3 (4,1)
Dairy 352 Advertising and Merchandising	3 (3,0)
Dairy 354 Endocrinology‡	3 (3,0)
Dairy 358 Artificial Insemination of Farm Animals‡	3 (2,3)
Engl 401 Adv. Composition	3 (3,0)

*At least three credits must be selected from the following courses: Geog 301, Hist 801, Psych 301, RS 301, Soc 301.

†Dairy 306 to be taught second semester 1959-60 and alternate years thereafter.

‡Dairy 354 and Dairy 358 are given in alternate years. Dairy 358 in 1959-60.

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	4 (3,3)
Engl 301 Public Speaking	3 (3,0)
Ent 305 Econ. Entomology††	3 (2,3)
Approved Electives	9

19

Second Semester

Agron 302 Genetics	3 (2,3)
Bot 352 Plant Physiology	4 (3,3)
Ent 306 Econ. Entomology††	3 (2,3)
Approved Electives	9

19

††To be taught in 1959-60 and alternate years thereafter.

Suggested Electives:

AS or MS — Advanced	3 (4,1)
Chem 215 Qual. Analysis	4 (2,6)
Dairy 403 Animal Nutrition	3 (3,0)
Ger 101 Elem. German	3 (3,0)
Phys 202 Gen. Phys.	3 (3,0)
Phys 204 Gen. Physics Lab.	1 (0,3)
RS 301 Rural Sociology	3 (3,0)
Zool 301 Comparative Vertebrate Anatomy	3 (2,3)

Suggested Electives:

AS or MS — Advanced	3 (4,1)
Chem 216 Quant. Analysis	4 (2,6)
Chem 310 Agric. Biochemistry	4 (3,3)
Ger 102 Elem. German	3 (3,0)
Zool 302 Embryology	3 (2,3)
Zool 304 Animal Ecology	2 (1,3)
Zool 306 Game Management	2 (2,0)

SENIOR YEAR

First Semester

Bot 401 Plant Pathology	3 (2,3)
Ent 405 Insect Morphology†	3 (2,3)
Ent 461 Seminar‡	1 (1,0)
Zool 402 Animal Anat. and Phys.	3 (2,3)
Approved Electives*	9
	19

Second Semester

Ent 408 Gen. and Tax. Ent.‡	5 (3,6)
Ent 462 Seminar‡	1 (1,0)
Ent 468 Intro. to Research	2 (1,3)
or Agron 468 Intro. to Research	2 (1,3)
or Hort 468 Intro. to Research	2 (1,3)
Gov 301 Am. G. and Pol. Par.	3 (3,0)
Approved Electives	7

18

Suggested Electives:

Ag Ec 401 Statistics	3 (2,3)
AS or MS — Advanced	3 (4,1)
Bot 451 Morph. of Fungi	3 (2,3)
Chem 323 Elem. Org. Chem.	4 (3,3)
Zool 403 Protozoology	3 (2,3)
Zool 405 Animal Histology	3 (2,3)

Suggested Electives:

AS or MS — Advanced	3 (4,1)
Bot 356 Taxonomy	3 (1,6)
Chem 324 Elem. Org. Chem.	4 (3,3)
Econ 312 Commercial Law	3 (3,0)
Ent 406 Beekeeping†	3 (2,3)
Ent 455 Medical Ent.‡	3 (2,3)
Zool 404 Animal Diseases	3 (2,3)
Zool 456 Parasitology	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.

FRUIT AND VEGETABLE OPTION

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

First Semester

Agron 302 Genetics	3 (2,3)
Bact 301 Gen. Bacteriology	4 (3,3)
Hort 305 Plant Propagation†	3 (2,3)
Approved Electives*	9
	19

Second Semester

Bot 352 Plant Physiology	4 (3,3)
Engl 301 Public Speaking	3 (3,0)
Hort 302 Prin. Veg. Prod.†	3 (2,3)
Hort 352 Commercial Pomology‡	3 (2,3)
Approved Electives	6

19

Suggested Electives:

Ag Ec 309 Introd. to Marketing	3 (3,0)
Ag En 801 Soil Conservation	3 (2,3)
Agron 301 Fertilizers	3 (3,0)
AS or MS — Advanced	3 (4,1)
Phys 202 Gen. Physics	3 (3,0)
Phys 204 Gen. Physics Lab.	1 (0,3)

Suggested Electives:

AS or MS — Advanced	3 (4,1)
Bot 356 Taxonomy	3 (1,6)
Hort 407 Landscape Design	3 (2,3)

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

†To be taught in 1959-60 and alternate years thereafter.

‡To be taught in 1960-61 and alternate years thereafter.

SENIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Bot 401 Plant Pathology _____	3 (2,3)	Agron 405 Plant Breeding _____	3 (2,3)
Ent 301 Elem. and Econ. Ent. ____	3 (2,3)	or Hort 405 Nut Tree Culture†	3 (2,3)
Hort 409 Seminar‡ _____	2 (2,0)	Gov 301 Am. G. and Pol. Par. ____	3 (3,0)
Hort 451 Syst. Pomology‡ _____	3 (2,3)	Hort 456 Truck Crops‡ _____	3 (2,3)
Approved Electives _____	8	Hort 464 Food Preservation _____	3 (2,3)
	19	Hort 468 Intro. to Research _____	2 (1,3)
		or Agron 468 Intro. to Research	2 (1,3)
		or Ent 468 Intro. to Research -	2 (1,3)
		Approved Electives _____	4
			18
Suggested Electives:		Suggested Electives:	
Agron 452 Soil Fert. & Mgt. ____	2 (2,0)	AS or MS — Advanced _____	3 (4,1)
AS or MS — Advanced _____	3 (4,1)	Dairy 352 Advertising & Merchan.	3 (3,0)
		Ent 306 Econ. Entomology _____	3 (2,3)
		Hort 310 Floriculture _____	3 (2,3)

ORNAMENTAL OPTION

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Bact 301 Gen. Bacteriology _____	4 (3,3)	Bot 352 Plant Physiology _____	4 (3,3)
CE 200 Elem. Surveying _____	2 (1,3)	Engl 301 Public Speaking _____	3 (3,0)
DD 101 Freehand Drawing _____	1 (0,3)	Hort 310 Floriculture† _____	3 (2,3)
Hort 305 Plant Propagation† ____	3 (2,3)	Approved Electives _____	9
Approved Electives* _____	9		19
	19		
Suggested Electives:		Suggested Electives:	
Ag Ec 309 Introd. to Marketing ..	3 (3,0)	AS or MS — Advanced _____	3 (4,1)
Agron 301 Fertilizers _____	3 (3,0)	Bot 356 Taxonomy _____	3 (1,6)
AS or MS — Advanced _____	3 (4,1)	For 202 Dendrology _____	4 (3,3)
Phys 202 Gen. Physics _____	3 (3,0)	Hort 302 Prin. Veg. Prod. _____	3 (2,3)
Phys 204 Gen. Physics Lab. _____	1 (0,3)		

SENIOR YEAR

Agron 302 Genetics _____	3 (2,3)	Bot 401 Plant Pathology _____	3 (2,3)
Arch 309 Arch. Hist. _____	3 (3,0)	Gov 301 Am. G. and Pol. Par. ____	3 (3,0)
Hort 407 Landscape Design _____	3 (2,3)	Hort 402 Garden Design‡ _____	3 (2,3)
Hort 409 Seminar‡ _____	2 (2,0)	Hort 460 Adv. Landscape Design‡	5 (3,6)
Approved Electives _____	8	Approved Electives _____	4
	19		18
Suggested Electives:		Suggested Electives:	
AS or MS — Advanced _____	3 (4,1)	AS or MS — Advanced _____	3 (4,1)
Arch 409 Art Appreciation _____	3 (3,0)	Dairy 352 Advertising & Merchan.	3 (3,0)
Hort 451 Syst. Pomology _____	3 (2,3)	Ent 306 Econ. Entomology _____	3 (2,3)
		Hort 468 Intro. to Research _____	2 (1,3)
		or Agron 468 Intro. to Research	2 (1,3)
		or Ent 468 Intro. to Research -	2 (1,3)

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.

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

†To be taught in 1959-60 and alternate years thereafter.

‡To be taught in 1960-61 and alternate years thereafter.

POULTRY MAJOR

For additional requirements see *Basic Agricultural Curriculum*

JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Agron 302 Genetics _____	3 (2,3)	Engl 301 Public Speaking _____	3 (3,0)
AH 301 Feeds and Feeding _____	3 (3,0)	PH 352 Feeding and Mgt.† _____	3 (2,3)
Bact 301 Gen. Bacteriology _____	4 (3,3)	PH 354 Poultry Breeding† _____	3 (2,3)
PH 355 Processing and Grading† _____	3 (2,3)	Approved Electives _____	10
Approved Electives _____	6		
	19		19
Suggested Electives:		Suggested Electives:	
Ag Ec 309 Introd. to Marketing - _____	3 (3,0)	Ag Ec 302 Farm Management _____	3 (2,3)
AS or MS — Advanced _____	3 (4,1)	AS or MS — Advanced _____	3 (4,1)
Dairy 403 Animal Nutrition _____	3 (3,0)	Chem 310 Agric. Biochemistry _____	4 (3,3)
Phys 202 Gen. Physics _____	3 (3,0)	Dairy 352 Advertising & Merchan. _____	3 (3,0)
Phys 204 Gen. Physics Lab. _____	1 (0,3)	RS 301 Rural Sociology _____	3 (3,0)
Zool 801 Comp. Verteb. Anatomy _____	3 (2,3)	Zool 302 Vertebrate Embryology - _____	3 (2,3)
		Zool 306 Game Management _____	2 (2,0)

SENIOR YEAR

Ent 301 Elem. and Econ. Ent. _____	3 (2,3)	Gov 301 Am. G. and Pol. Par. _____	3 (3,0)
PH 457 Incubat. and Brooding† _____	3 (2,3)	PH 458 Diseases and Parasites† _____	3 (2,3)
Zool 402 Animal Anat. and Phys. _____	3 (2,3)	PH 460 Seminar† _____	2 (2,0)
Approved Electives _____	10	Approved Electives* _____	10
	19		18
Suggested Electives:		Suggested Electives:	
Ag Ec 305 Farm Accounting _____	3 (2,3)	Ag Ec 352 Public Finance _____	3 (3,0)
Ag Ec 401 Statistics _____	3 (2,3)	Agron 468 Intro. to Research _____	2 (1,3)
AS or MS — Advanced _____	3 (4,1)	or Ent 468 Intro. to Research - _____	2 (1,3)
AH 353 Meats _____	1 (1,0)	or Hort 468 Intro. to Research _____	2 (1,3)
AH 355 Meats Lab. _____	2 (0,6)	AS or MS — Advanced _____	3 (4,1)
AH 401 Beef Production _____	3 (3,0)	AH 310 Pork Production _____	3 (3,0)
AH 403 Beef Production Lab. _____	1 (0,3)	AH 314 Pork Production Lab. _____	1 (0,3)
Hort 464 Food Preservation _____	3 (2,3)	Dairy 354 Endocrinology _____	3 (3,0)
		Econ 312 Commercial Law _____	3 (3,0)

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

†To be taught in 1959-60 and alternate years thereafter.

‡To be taught in 1960-61 and alternate years thereafter.

AGRICULTURAL ENGINEERING**

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

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

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

AGRICULTURAL ENGINEERING

FRESHMAN YEAR

First Semester

Chem 101 Gen. Chemistry	4	(3,3)
DD 107 Engr. Drawing	2	(0,6)
Engl 101 English Composition	3	(3,0)
IE 101 Manuf. Processes	2	(0,6)
Math 103 Freshman Math.	5	(5,0)
AS or MS — Basic	1	(2,1)

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Second Semester

Chem 102 Gen Chemistry	4	(3,3)
DD 108 Engr. Drawing	2	(0,6)
Engl 102 English Composition	3	(3,0)
Hist 104 Western Civilization	3	(3,0)
Math 104 Freshman Math.	5	(5,0)
AS or MS — Basic	1	(2,1)

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SOPHOMORE YEAR

Ag En 203 Agric. Engr. Prob.	1	(0,3)
Ag En 207 Farm Mechanics	2	(1,3)
Agron 101 Farm Crops	3	(2,3)
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)

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Ag En 202 Farm Equipment	3	(2,3)
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)

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JUNIOR YEAR

Ag En 351 Farm Tractors	3	(2,3)
Agron 202 Soils	3	(2,3)
EE 305 Elec. Cir. and Machines	4	(3,3)
ME 302 Elem. Thermodynamics	3	(3,0)
ME 307 Mech. Engr. Lab.	1	(0,3)
Mech 303 Dynamics	3	(3,0)
Approved Elective	3	

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Ag En 304 Rural Electrification	3	(2,3)
AH 304 Animal Production	2	(2,0)
Bot 101 General Botany	4	(3,3)
CE 200 Elementary Surveying	2	(1,3)
IE 201 Metal Processes	2	(1,3)
Mech 304 Mech. of Materials	3	(3,0)
Approved Elective	3	

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Suggested Electives:

Ag Ec 302 Farm Management	3	(2,3)
Agron 301 Fertilizers	3	(3,0)
AS or MS — Advanced	3	(4,1)
Arch 215 Building Construction	2	(2,0)
CE 306 Prin. of Sanitation	2	(2,0)
CE 309 Trusses	1	(0,3)
Dairy 201 Introductory Dairying	3	(2,3)
Econ 201 Principles of Econ.	3	(3,0)
For 205 Farm Forestry	3	(2,3)
Geog 301 Econ. Geography	3	(3,0)
Geol 201 Agric. Geology	3	(2,3)
Hort 201 Gen. Horticulture	3	(2,3)
IE 302 Welding	2	(1,3)
Rel 201 Old Testament Prophets	3	(3,0)

Suggested Electives:

Ag Ec 305 Farm Accounting	3	(2,3)
AS or MS — Advanced	3	(4,1)
Arch 216 Building Construction	2	(2,0)
CE 310 Structures	3	(2,3)
Cr En 303 Ceramic Products	2	(2,0)
Dairy 301 Dairy Tech. and Engr.	3	(2,3)
DD 308 Kinematics of Mach.	3	(2,3)
Econ 312 Commercial Law	3	(3,0)
Ent 301 Elem. and Econ. Ent.	3	(2,3)
IE 304 Motion and Time Study	3	(2,3)
PH 201 Farm Poultry	3	(2,3)
Psych 301 Gen. Psychology	3	(3,0)
Rel 305 New Testament Outline	3	(3,0)

SENIOR YEAR

Ag En 401 Soil & Water Con. En.	3	(2,3)
Ag En 409 Seminar	1	(1,0)
Ag En 451 Farm Structures	3	(2,3)
Gov 301 Am. G. and Pol. Par.	3	(3,0)
Mech 401 Fluid Mechanics	3	(3,0)
Mech 403 Fluid Mech. Lab.	1	(0,3)
Approved Elective	3	

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

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Suggested Electives:

Ag Ec 401 Statistics	3	(2,3)
AS or MS — Advanced	3	(4,1)
CE 409 Reinforced Concrete	3	(2,3)
DD 401 Fund. Machine Design	3	(3,0)
Econ 401 Accounting	3	(3,0)
Engl 401 Adv. Composition	3	(3,0)
Gov 403 International Relations	3	(3,0)
Math 306 Ord. Diff. Equations	3	(3,0)
Mech 460 Hydrology	2 or 3	(2 or 3,0)

Suggested Electives:

AS or MS — Advanced	3	(4,1)
Bot 352 Plant Physiology	4	(3,3)
CE 414 Soil Mechanics	3	(2,3)
CE 422 Engr. Ethics	3	(3,0)
Geol 406 Engr. Geology	3	(2,3)
Hist 303 Hist. of Civilization	3	(3,0)
IE 402 Metallurgy	3	(2,3)
ME 429 Air Conditioning	3	(3,0)
ME 430 Air Conditioning Design	1	(0,3)
Mech 464 Flow in Open Channels	2 or 3	(2 or 3,0)

FORESTRY

Foresters of professional standing are employed in various capacities by private concerns or by Federal, State, and other public agencies. They may be engaged as managers and administrators of forest lands, technical specialists in extension, fire protection, recreation, or in other activities presupposing professional forestry knowledge. Foresters earning advanced degrees find employment in academic work and in research conducted both by public and private agencies.

FORESTRY

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Bot 101 Gen. Botany _____	4 (3,3)	Chem 102 Gen. Chemistry _____	4 (3,3)
Chem 101 Gen. Chemistry _____	4 (3,3)	DD 105 Engr. Drawing _____	2 (0,6)
Engl 101 English Composition _____	3 (3,0)	Engl 102 English 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)	Zool 101 Gen. Zool. _____	3 (3,0)
		Zool 103 Gen. Zool. Lab. _____	1 (0,3)
		AS or MS — Basic _____	1 (2,1)
	17		19

SOPHOMORE YEAR

Agron 202 Soils _____	3 (2,3)	Bot 356 Taxonomy _____	3 (1,6)
CE 200 Elem. Surveying _____	2 (1,3)	CE 203 Topog. Surv. & Map. _____	1 (0,3)
Engl 203 Survey of Engl. Lit. _____	3 (3,0)	Econ 201 Principles of Econ. _____	3 (3,0)
For 201 Intro. to Forestry _____	1 (1,0)	Engl 204 Survey of Engl. Lit. _____	3 (3,0)
For 203 Silvics _____	2 (2,0)	For 202 Dendrology _____	4 (3,3)
Geol 201 Agric. Geology _____	3 (2,3)	Phys 202 Gen. Physics _____	3 (3,0)
Phys 201 Gen. Physics _____	3 (3,0)	Phys 204 Gen. Physics Lab. _____	1 (0,3)
Phys 203 Gen. Physics Lab. _____	1 (0,3)	AS or MS — Basic _____	1 (2,1)
AS or MS — Basic _____	1 (2,1)		19

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For 250 Forestry Summer Camp _____ 9 credits

JUNIOR YEAR

Ag Ec 401 Statistics _____	3 (2,3)	Bot 352 Plant Physiology _____	4 (3,3)
Ent 307 Forest Entomology _____	3 (2,3)	For 302 Forest Mensuration _____	3 (2,3)
For 301 Aerial Forest Mapping _____	3 (2,3)	For 304 Forest Pathology _____	3 (2,3)
For 303 Silviculture _____	4 (3,3)	Zool 312 Wildlife Management _____	3 (2,3)
For 305 Wood Technology _____	1 (0,3)	Approved Electives _____	3
Approved Electives* _____	3		16
	17		

Suggested Electives:

Agron 301 Fertilizers _____	3 (3,0)
AS or MS — Advanced _____	3 (4,1)
Fr 101 Elementary French _____	3 (3,0)
Ger 101 Elementary German _____	3 (3,0)
Hist 303 Hist. of Civilization _____	3 (3,0)
IE 303 Job Eval. & Wage Incen. _____	3 (3,0)
Math 301 Advanced Algebra _____	3 (3,0)
Math 401 College Geometry _____	3 (3,0)
RS 461 Rural Leadership _____	3 (3,0)

Suggested Electives:

Agron 452 Soil Fertility & Mgt. _____	2 (2,0)
AS or MS — Advanced _____	3 (4,1)
Dairy 352 Advertising and Merchandising _____	3 (3,0)
Econ 312 Commercial Law _____	3 (3,0)
Fr 102 Elementary French _____	3 (3,0)
Ger 102 Elementary German _____	3 (3,0)
Hist 304 Hist. of Civilization _____	3 (3,0)
IM 304 Quality Control _____	3 (3,0)
Math 302 Theory of Equations _____	3 (3,0)

SENIOR YEAR

For 401 Forest Economics _____	2 (2,0)	Engl 301 Public Speaking _____	3 (3,0)
For 403 Forest Products _____	3 (2,3)	For 402 Logging and Milling _____	4 (2,6)
For 405 Forest Protection _____	2 (2,0)	For 404 Management Plans _____	1 (0,3)
For 407 Forest Regulation _____	4 (3,3)	For 406 For. Policy & Admin. _____	3 (3,0)
Gov 301 Am. G. & Pol. Par. _____	3 (3,0)	For 408 Forest Valuation _____	3 (3,0)
Approved Electives _____	3	Approved Electives _____	3
	17		17

*Students not electing Advanced AS or MS must select at least three credits from the following courses: Geog 301, Hist 301, Psych 301, Soc 301.

Suggested Electives:

Ag Ec 302 Farm Management	3	(2,3)
Ag Ec 309 Intro. to Marketing	3	(3,0)
Ag En 301 Soil Conservation	3	(2,3)
Arch 405 Visual Arts	2	(0,6)
AS or MS — Advanced	3	(4,1)
Bact 301 Gen. Bacteriology	4	(3,3)
Chem 215 Qual. Analysis	4	(2,6)
Chem 307 Optical Mineralogy	3	(2,3)
Math 203 Diff. Calculus	5	(5,0)
Phys 305 Photography	3	(2,3)
Phys 471 Electron Microscopy	3	(2,3)
Zool 301 Comparative Vertebrate Anatomy	3	(2,3)

Suggested Electives:

Ag En 201 Farm Machinery	3	(2,3)
Agron 302 Genetics	3	(2,3)
Arch 406 Visual Arts	2	(0,6)
AS or MS — Advanced	3	(4,1)
Bot 402 Econ. Botany	3	(2,3)
Bot 452 Ecology	4	(2,6)
Chem 216 Quant. Analysis	4	(2,6)
Chem 220 Agric. Org. Chem.	4	(3,3)
Chem 310 Agric. Biochemistry	4	(3,3)
Geol 306 Mineralogy	3	(2,3)
Math 204 Integral Calculus	5	(5,0)

PRE-VETERINARY MEDICINE

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

PRE-VETERINARY MEDICINE

FRESHMAN YEAR

First Semester

Chem 101 Gen. Chemistry	4	(3,3)
Engl 101 English Composition	3	(3,0)
Math 103 Freshman Math.	5	(5,0)
Zool 101 Gen. Zoology	3	(3,0)
Zool 103 Gen. Zoology Lab.	1	(0,3)
AS or MS — Basic	1	(2,1)

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Second Semester

AH 101 Types and Breeds	2	(2,0)
AH 103 Types and Breeds Lab.	1	(0,3)
Bot 101 General Botany	4	(3,3)
Chem 102 Gen. Chemistry	4	(8,3)
Engl 102 English Composition	3	(3,0)
Hist 101 American History	3	(3,0)
AS or MS — Basic	1	(2,1)

18

SOPHOMORE YEAR

Chem 220 Agric. Org. Chem.	4	(3,3)
Engl 203 Survey of Engl. Lit.	3	(3,0)
Phys 201 Gen. Physics	3	(3,0)
Phys 203 Gen. Physics Lab.	1	(0,3)
PH 201 Farm Poultry	3	(2,3)
Zool 301 Comparative Vertebrate Anatomy	3	(2,3)
AS or MS — Basic	1	(2,1)

18

AH 301 Feeds and Feeding	3	(3,0)
Bot 401 Plant Pathology	3	(2,3)
Chem 310 Agric. Biochemistry	4	(3,3)
Dairy 201 Introductory Dairying	3	(2,3)
Econ 201 Principles of Econ.	3	(3,0)
Engl 204 Survey of Engl. Lit.	3	(3,0)
AS or MS — Basic	1	(2,1)

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SCHOOL OF ARCHITECTURE

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

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

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

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

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

Each year the regular class offerings of the School of Architecture are supplemented by a series of lectures by outstanding specialists in various areas of architecture, and the adjunct arts and sciences. Such visits vary in length from two

days to a month. The Architectural Gallery presents exhibits in architecture, painting, sculpture and allied arts and crafts. The Clemson Architectural Foundation was established to assist in providing the lecture and exhibition programs, as well as field trips, scholarship, and other aids to the professional education of architects.

ARCHITECTURE

FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Arch 103 Arch. Computations	1 (1,0)	Arch 106 Visual Arts	2 (0,6)
Arch 105 Visual Arts	2 (0,6)	Arch 152 Arch. Design Course	
Arch 151 Basic Design Course		Group	5 (0,15)
Group	5 (0,15)	CE 200 Elem. Surveying	2 (1,3)
Engl 101 English Composition	3 (3,0)	Engl 102 English Composition	3 (3,0)
Math 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		18

SECOND YEAR

Arch 251 Arch. Design Course		Arch 252 Arch. Design Course	
Group	6 (0,18)	Group	6 (0,18)
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)
Physics 211 Gen. Phys. for Engr.	4 (4,0)	Physics 202 Gen. Physics	3 (3,0)
Physics 213 Gen. Phys. Lab.	1 (0,3)	Physics 204 Gen. Physics Lab.	1 (0,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
	20		19

THIRD YEAR

Arch 309 Arch. History	3 (3,0)	Arch 310 Arch. History	3 (3,0)
Arch 351 Arch. Design Course		Arch 352 Arch. Design Course	
Group	7 (0,21)	Group	7 (0,21)
Chem 101 or 4 cr. elective	4 (3,3)	CE 309 Trusses	1 (0,3)
Mech 302 Statics	3 (3,0)	Mech 304 Mech. of Materials	3 (3,0)
Elective	3	Electives	5
	20		19

OPTION I

FOURTH YEAR

Arch 311 Arch. History	2 (2,0)	Arch 405 Visual Arts	2 (0,6)
Arch 415 Structural Methods	2 (2,0)	Arch 452 Arch. Design Course	
Arch 451 Arch. Design Course		Group	8 (0,24)
Group	8 (0,24)	CE 409 Reinf. Concrete	3 (2,3)
CE 310 Structures	3 (2,3)	Engl 301 Public Speaking	3 (3,0)
Elective	3	Elective	3
	18		19

FIFTH YEAR

Arch 475 Mechanical Plant	2 (1,3)	Arch 476 Mechanical Plant	2 (1,3)
Arch 480 Office Practice	2 (2,0)	Arch 481 Office Practice	2 (2,0)
Arch 491 Arch. & Town Plan.		Arch 492 Arch. Thesis	11 (5,18)
Design	11 (5,18)	Elective	3
Elective	3		18
	18		18

OPTION II

FOURTH YEAR

Arch 311 Arch. History	2 (2,0)	Arch 406 Visual Arts	2 (0,6)
Arch 415 Structural Methods	2 (2,0)	CE 402 Structural Analysis	2 (2,0)
Arch 453 Adv. Arch. Construction	4 (1,9)	CE 409 Reinforced Concrete	3 (2,3)
CE 310 Structures	3 (2,3)	CE 414 Soil Mechanics	3 (2,3)
Geol 406 Engr. Geology	3 (2,3)	Engl 301 Public Speaking	3 (3,0)
Elective	4	Mech 401 Fluid Mechanics	3 (3,0)
	18	Elective	3
	18		19

FIFTH YEAR

First Semester

Arch 475 Mechanical Plant	2 (1,3)
Arch 480 Office Practice	2 (2,0)
Arch 493 Struct. Thesis Research ..	5 (0,15)
CE 420 Concrete Mixes	1 (0,3)
CE 452 Struct. Analysis	2 (2,0)
Electives	6
	<hr/>
	18

Second Semester

Arch 476 Mechanical Plant	2 (1,3)
Arch 481 Office Practice	2 (2,0)
Arch 494 Arch. Struct. Thesis	11 (5,18)
Elective	3
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	18

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

SCHOOL OF ARTS AND SCIENCES

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

Students majoring in the School of Arts and Sciences should secure from the 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 concentration for Arts and Sciences curriculum majors and a list of approved electives for students majoring in the School.

APPLIED MATHEMATICS

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

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

schools. Furthermore, it affords excellent preparation for admission into Clemson's Master of Science program in Nuclear Science.

APPLIED MATHEMATICS

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Chem 101 General Chemistry	4 (3,3)	Chem 102 Gen. Chemistry	4 (3,3)
Engl 101 English Composition	3 (3,0)	or Chem 104 Gen. Chem.	4 (3,3)
Fr 101 Elem. French	3 (3,0)	Engl 102 English Composition	3 (3,0)
or Ger 101 Elem. German	3 (3,0)	Fr 102 Elem. French	3 (3,0)
Hist 101 American History	3 (3,0)	or Ger 102 Elem. German	3 (3,0)
Math 103 Freshman Math.	5 (5,0)	Hist 102 American History	3 (3,0)
AS or MS—Basic	1 (2,1)	Math 104 Freshman Math.	5 (5,0)
		AS or MS—Basic	1 (2,1)
	19		19

SOPHOMORE YEAR

Econ 201 Prin. of Economics	3 (3,0)	Econ 202 Prin. of Economics	3 (3,0)
Engl 203 Survey of English Lit.	3 (3,0)	Engl 204 Survey of English Lit.	3 (3,0)
Fr 201 Intermediate French	3 (3,0)	French 202 Intermediate French	3 (3,0)
or Ger 201 Intermediate Ger-		or Ger 202 Intermediate Ger-	
man	3 (3,0)	man	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 212 Gen. Phys. for Engr.	4 (4,0)
Phys 213 Gen. Phys. Lab.	1 (0,3)	Phys 214 Gen. Phys. Lab.	1 (0,3)
AS or MS—Basic	1 (2,1)	AS or MS—Basic	1 (2,1)
	20		20

JUNIOR YEAR

Engl 301 Public Speaking	3 (3,0)	Math 304 Statistics	3 (3,0)
Hist 303 Hist. of Civilization	3 (3,0)	Math 451 Vector Analysis	3 (3,0)
Math 303 Statistics	3 (3,0)	Phys 321 Mechanics	4 (4,0)
Math 306 Diff. Equations	3 (3,0)	Phys 323 Exp. Mechanics	1 (0,3)
Math 309 Theory of Approx.	3 (2,3)	Phys 341 Elect. and Magnetism	3 (3,0)
Approved Electives	3	Approved Electives	4
	18		18

SENIOR YEAR

Math 453 Adv. Calculus	3 (3,0)	Hist 304 Hist. of Civilization	3 (3,0)
Phys 441 Electromagnetism	3 (3,0)	Math 302 Theory of Equations	3 (3,0)
Phys 443 Elect. Measurements	2 (1,3)	Math 453 Adv. Calculus	3 (3,0)
Phys 451 Modern Physics	3 (3,0)	Approved Electives	9
Phys 453 Exp. Mod. Physics	1 (0,3)		
Approved Electives	6		18
	18		

ARTS AND SCIENCES

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

ARTS AND SCIENCES

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry	4 (3,3)
Engl 101 English 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)

19

Second Semester

Chem 102 General Chemistry ...	4 (3,8)
Engl 102 English 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)

19

SOPHOMORE YEAR

Bot 101 General Botany*	4 (3,3)
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

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. Zoology Lab.*	1 (0,3)
AS or MS — Basic	1 (2,1)
Approved Elective	3

18

JUNIOR YEAR

Engl 301 Public Speaking	3 (3,0)
Approved Electives	16

19

Approved Electives	19
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19

SENIOR YEAR

Approved Electives	19
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19

Approved Electives	19
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19

*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.

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.

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

CHEMISTRY

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Chem 101 General Chemistry	4 (3,3)	Chem 104 General Chemistry	4 (3,3)
DD 101 Freehand Drawing	1 (0,3)	Engl 102 English Composition	3 (3,0)
Engl 101 English Composition	3 (3,0)	Ger 102 Elementary German	3 (3,0)
Ger 101 Elementary German	3 (3,0)	Math 104 Freshman Math.	5 (5,0)
Math 103 Freshman Math.	5 (5,0)	AS or MS — Basic	1 (2,1)
AS or MS — Basic	1 (2,1)	Approved Electives*	3 (3,0)
	17		19

SOPHOMORE YEAR

Chem 215 Qual. Analysis	4 (2,6)	Chem 216 Quan. Analysis	4 (2,6)
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 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*	3	Approved Electives*	3
	20		20

JUNIOR YEAR

Chem 323 Elem. Org. Chem.	4 (3,3)	Chem 324 Elem. Org. Chemistry	4 (3,3)
Chem 331 Physical Chemistry	5 (3,6)	Chem 332 Physical Chemistry	5 (3,6)
Engl 301 Public Speaking	3 (3,0)	Chem 442 Chem. Literature	2 (1,3)
Approved Electives*	7	Approved Electives*	8
	19		19

SENIOR YEAR

Chem 411 Instr. Analysis	3 (1,6)	Chem 402 Inorg. Chemistry	3 (3,0)
Chem 421 Qual. Org. Analysis	3 (1,6)	Chem 472 Org. Synthesis	3 (1,6)
Chem 491 Intro. to Radiochem.	3 (2,3)	Approved Electives*	12
Approved Electives*	9		
	18		18

Suggested Electives:

AS or MS — Advanced	3 (4,1)
Bact 301 General Bacteriology	4 (3,3)
Chem 423 Gen. Biochemistry	3 (3,0)
Chem 441 Glass Manipulation	2 (0,6)
Chem 443 Research Problems	3 (0,9)
Ger 201 Intermediate German	3 (3,0)
Phys 341 Elec. and Magn.	3 (3,0)
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 Intro. Nucl. Physics	3 (3,0)

*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.

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, 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.

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

EDUCATION

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
DD 101 Freehand Drawing	1 (0,3)	Bot 101 General Botany	4 (3,3)
Engl 101 English Composition	3 (3,0)	Engl 102 English Composition	3 (3,0)
Hist 101 American History	3 (3,0)	Gov 101 Am. Natl. Govt.	3 (3,0)
Math 103 Freshman Math.	5 (5,0)	Hist 102 American History	3 (3,0)
Zool 101 General Zoology	3 (3,0)	Math 104 Freshman Math.	5 (5,0)
Zool 103 General Zoology Lab.	1 (0,3)	AS or MS — Basic	1 (2,1)
AS or MS — Basic	1 (2,1)		
	17		19

SOPHOMORE YEAR

Chem 101 General Chemistry	4 (3,3)	Chem 102 General Chemistry	4 (3,3)
Ed 201 Principles of Education	3 (3,0)	Econ 201 Prin. of Economics	3 (3,0)
Engl 203 Survey of Engl. Lit.	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

Econ 202 Prin. of Economics	3 (3,0)	Bact 301 Gen. Bacteriology	4 (3,3)
Engl 301 Public Speaking	3 (3,0)	Ed 302 Educ. Psychology	3 (3,0)
Psych 301 Gen. Psychology	3 (3,0)	Ed 332 Organization of Courses	3 (3,0)
Soc 301 Intro. Sociology	3 (3,0)	Zool 306 Game Management	2 (2,0)
Approved Electives	7	Approved Electives	7
	19		19

SENIOR YEAR

Econ 312 Commercial Law	3 (3,0)	Arch 409 Art Appreciation	3 (3,0)
Ed 424 Tech. of Teaching	3 (3,0)	Ed 412 Directed Teaching*	6 (1,15)
Ed 458 Health Education	3 (3,0)	Music 402 Music Appreciation	3 (3,0)
Gov 302 State and Local Gov.	3 (3,0)	RS 459 The Rural Community	3 (3,0)
Soc 402 The Family	3 (3,0)	Approved Electives	3
Approved Electives	5		
	20		18

*Note: Any student who applies for admission to Ed 412 will be expected to limit his total credit hours to 15 if his cumulative grade-point ratio is less than 2.3, and a grade-point ratio of 2.8 is required before a student is permitted to enroll in more than 18 credit hours total. Enrollment in Ed 412 requires permission of the instructor.

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 back-

ground, 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)
Engl 101 English 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)
DD 106 Engr. Drawing	2 (0,6)
Engl 102 English 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

Ed 201 Prin. of Education	3 (3,0)
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 Electives	2

19

Ag En 203 Ag. Engr. Problems	1 (0,3)
Bot 101 General Botany	4 (3,3)
Cr Ar 101 Pottery Materials	3 (2,8)
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 Electives	3

19

JUNIOR YEAR

Arch 215 Bldg. Construction	2 (2,0)
EE 303 Basic Electricity	4 (3,3)
In Ar 303 Industrial Arts	2 (1,3)
In Ed 307 Ind. Educ. Lab.	2 (0,6)
Approved Economics Elective*	3 (3,0)
Approved History Elective*	3 (3,0)
Approved Electives	3

19

Arch 216 Building Construction	2 (2,0)
Ed 302 Educ. Psychology	3 (3,0)
Ed 332 Organization of Courses	3 (3,0)
Engl 301 Public Speaking	3 (3,0)
In Ar 304 School Shop Mgt.	2 (1,3)
In Ed 308 Ind. Educ. Lab.	2 (0,6)
IE 302 Welding	2 (1,3)
Approved Electives	3

20

SENIOR YEAR

Ed 424 Tech. of Teaching	3 (3,0)
Ed 458 Health Education	3 (3,0)
In Ed 402 Directed Teaching†	6 (1,15)
Music 402 Music Appreciation	3 (3,0)
Approved Electives	3

18

Arch 407 Industrial Design	2 (1,3)
Arch 409 Art Appreciation	3 (3,0)
Bact 301 Gen. Bacteriology	4 (3,3)
In Ed 421 Coord. Methods	2 (2,0)
Approved History Elective*	3 (3,0)
Approved Sociology Elective*	3 (3,0)
Approved Electives	3

20

*Approved Electives: Econ 201, 202 or 312; Hist 101, 102 (301), 303 or 304; Soc 301 or 402.

†Any student who applies for admission to In Ed 402 will be expected to limit his total credit hours to 15 if his cumulative grade-point ratio is less than 2.3, and a grade-point ratio of 2.3 is required before a student is permitted to enroll in more than 18 credit hours total. Enrollment in In Ed 402 requires permission of the instructor.

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 are 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

<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)	DD 106 Engr. Drawing _____ 2 (0,6)
Engl 101 English Composition _____ 3 (3,0)	Engl 102 English Composition _____ 3 (3,0)
Hist 101 American History _____ 3 (3,0)	Hist 102 American History _____ 3 (3,0)
Math 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)
18	18

SOPHOMORE YEAR

Acct 201 Prin. of Acct. _____ 3 (3,0)	Acct 202 Prin. of Acct. _____ 3 (3,0)
Econ 201 Prin. of Economics _____ 3 (3,0)	Econ 202 Prin. of Economics _____ 3 (3,0)
Engl 203 Survey of Engl. Lit. _____ 3 (3,0)	Engl 204 Survey of Engl. Lit. _____ 3 (3,0)
Gov 101 Amer. Natl. Govt. _____ 3 (3,0)	IE 203 Machine Tool Problems _____ 2 (2,0)
IE 101 Mfg. Processes _____ 2 (0,6)	Phys 202 General Physics _____ 3 (3,0)
Phys 201 General Physics _____ 3 (3,0)	Phys 204 Gen. Phys. Lab. _____ 1 (0,3)
Phys 203 Gen. Phys. Lab. _____ 1 (0,3)	Soc 301 Intro. Sociology _____ 3 (3,0)
AS or MS — Basic _____ 1 (2,1)	AS or MS — Basic _____ 1 (2,1)
19	19

JUNIOR YEAR

EE 303 Basic Electricity _____ 4 (3,3)	Econ 314 Inter. Econ. Theory _____ 3 (3,0)
IM 301 Cost Accounting _____ 3 (3,0)	Engl 301 Public Speaking _____ 3 (3,0)
Math 303 Statistics _____ 3 (3,0)	IM 302 Ind. Management _____ 3 (3,0)
Psych 301 General Psychology _____ 3 (3,0)	IM 304 Quality Control _____ 3 (3,0)
Approved Electives _____ 6	Approved Electives _____ 7
19	19

SENIOR YEAR

Econ 301 Labor Problems _____ 3 (3,0)	IE 204 Engineering Matr. _____ 2 (2,0)
Econ 312 Commercial Law _____ 3 (3,0)	IE 305 Work Simplification _____ 3 (3,0)
Engl 401 Adv. Composition _____ 3 (3,0)	and Standardization _____ 3 (3,0)
IE 303 Job Evaluation and _____ 3 (3,0)	IM 402 Prod., Plan. and Control _____ 3 (3,0)
Wage Incentive _____ 3 (3,0)	IM 404 Managerial Econ. _____ 3 (3,0)
Soc 405 Industrial Sociology _____ 3 (3,0)	Approved Electives _____ 8
Approved Electives _____ 4	19
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	Group II
Twelve hours in approved electives from the School of Textiles.	Ag Ec 309 Intro. to Marketing _____ 3 (3,0)
	Ag Ec 451 Agric. Cooperation _____ 2 (2,0)
	Ag Ec 452 Agricultural Policy _____ 3 (3,0)
	Ag Ec 456 Prices _____ 3 (3,0)
	Ag Ec 460 Agricultural Finance _____ 2 (2,0)
	Dairy 352 Advertising & Mds. _____ 3 (3,0)

Group III		Group IV	
Ag Ec 352 Public Finance	3 (3,0)	Econ 412 International Trade	3 (3,0)
Ag Ec 456 Prices	3 (3,0)	Geog 301 Economic Geography	3 (3,0)
Econ 302 Money & Banking	3 (3,0)	Geog 302 Political Geography	3 (3,0)
Econ 313 Commercial Law	3 (3,0)	Completion of the Second Year of One Foreign Language	6 (6,0)
Econ 412 International Trade	3 (3,0)	Group V	
Hist 406 History of Manufacturing in the United States	3 (3,0)	CE 417 City Planning	2 (2,0)
		Math 203 Differential Calculus	5 (5,0)
		Math 204 Integral Calculus	5 (5,0)
		Math 304 Statistics	3 (3,0)

PHYSICS

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

PHYSICS

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)	Engl 102 English Composition	3 (3,0)
Engl 101 English Composition	3 (3,0)	Ger 102 Elementary German	3 (3,0)
Ger 101 Elementary German	3 (3,0)	Math 104 Freshman Math.	5 (5,0)
Math 103 Freshman Math.	5 (5,0)	AS or MS — Basic	1 (2,1)
AS or MS — Basic	1 (2,1)	Approved Electives	3
	<hr/> 18		<hr/> 19

SOPHOMORE YEAR

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 212 Gen. Phys. for Engr.	4 (4,0)
Phys 213 Gen. Phys. Lab.	1 (0,3)	Phys 214 Gen. Phys. Lab.	1 (0,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
Approved Electives	4	Approved Electives	3
	<hr/> 18		<hr/> 17

JUNIOR YEAR

EE 307 Basic Elect. Engr.*	3 (3,0)	EE 308 Basic Elect. Engr.	3 (3,0)
EE 309 Elec. Engr. Lab.	1 (0,3)	EE 310 Elect. Engr. Lab.	1 (0,3)
Hist 301 Hist. of U. S. Since 1865	3 (3,0)	Math (as approved)	3
Math 306 Ord. Diff. Equations	3 (3,0)	Phys 321 Mech. & Props. of Matr.	4 (4,0)
Phys 312 Heat and Kinetic Th.	4 (4,0)	Phys 323 Exp. Mechanics	1 (0,3)
Phys 314 Experimental Heat	1 (0,3)	Phys 341 Elect. and Magnetism	3 (3,0)
Approved Elective	4	Approved Electives	4
	<hr/> 19		<hr/> 19

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

SENIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
EE 320 Electronics I	3 (3,0)	EE (as approved)	3
EE 322 Electronics I Lab.	1 (0,3)	Hist 304 Hist. of Civ.	3 (3,0)
Phys 332 Geom. and Phys. Optics	3 (3,0)	or Engl 301 Public Speaking	3 (3,0)
Phys 441 Elect. and Magnetism ...	3 (3,0)	Phys 432 Optics and Spectroscopy	3 (3,0)
Phys 443 Elect. Measurements ...	2 (1,3)	Phys 434 Experimental Light	1 (0,3)
Phys 451 Modern Physics	3 (3,0)	Approved Electives	10
Phys 453 Exp. in Mod. Phys.	1 (0,3)		
Approved Electives	4		20
	<hr/>		
	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 also meets all the requirements for graduation from a medical college approved by the American Medical Association. Requirements of the first three 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 English 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 English 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)
Econ 201 Prin. of Economics	3 (3,0)
Engl 203 Survey of Engl. Lit.	3 (3,0)
Fr 201 Intermediate French	3 (3,0)
or Ger 201 Intermediate Ger.	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

Bot 101 General Botany	4 (3,3)
Chem 216 Quan. Analysis	4 (2,6)
Econ 202 Prin. of Economics	3 (3,0)
Engl 204 Survey of Engl. Lit.	3 (3,0)
Fr 202 Intermediate French	3 (3,0)
or Ger 202 Intermediate Ger.	3 (3,0)
AS or MS — Basic	1 (2,1)

18

JUNIOR YEAR

Chem 323 Elem. Org. Chem.	4 (3,3)
Engl 301 Public Speaking	3 (3,0)
Phys 201 General Physics	3 (3,0)
Phys 203 General Physics Lab.	1 (0,3)
Approved Electives	8

19

Chem 324 Elem. Org. Chem.	4 (3,3)
Phys 202 General Physics	3 (3,0)
Phys 204 General Physics Lab.	1 (0,3)
Approved Electives	11

19

SENIOR YEAR

Bact 301 Gen. Bacteriology	4 (3,3)
Hist 303 Hist. of Civ.	3 (3,0)
Psych 301 Gen. Psychology	3 (3,0)
Zool 301 Comparative Vertebrate Anatomy	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 Vertebrate Embryology	3 (2,3)
Approved Electives	6

18

SCHOOL OF ENGINEERING

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

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

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

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

CERAMIC ENGINEERING

FRESHMAN YEAR

First Semester

Chem 101 General Chemistry	4 (3,3)
DD 107 Engr. Drawing	2 (0,6)
Engl 101 English Composition	3 (3,0)
IE 101 Mfg. Processes	2 (0,6)
or Hist 104 West. Civilization	3 (3,0)
Math 103 Freshman Math.	5 (5,0)
AS or MS — Basic	1 (2,1)

17 or 18

Second Semester

Chem 104 General Chemistry	4 (3,3)
DD 108 Engr. Drawing	2 (0,6)
Engl 102 English Composition	3 (3,0)
Hist 104 Western Civilization	3 (3,0)
or IE 101 Mfg. Processes	2 (0,6)
Math 104 Freshman Math.	5 (5,0)
AS or MS — Basic	1 (2,1)

18 or 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 Gen. Phys. Lab.	1 (0,3)
AS or MS — Basic	1 (2,1)
Approved Elective	3

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 Dynamics	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	3

17

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	6
Approved Elective	3

20

Three credits of electives are to be taken in the humanistic-social field, while 6 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 ever-changing and increasingly complex chemical industry demands well-educated, adaptive personnel, hence the rule-of-thumb methods of the past are no longer adequate for the chemical engineer's principal tasks, the design and 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

<i>First Semester</i>		<i>Second Semester</i>	
Chem 101 General Chemistry	4 (3,3)	Chem 104 General Chemistry	4 (3,3)
DD 107 Engr. Drawing	2 (0,6)	DD 108 Engr. Drawing	2 (0,6)
Engl 101 English Composition	3 (3,0)	Engl 102 Engl. Composition	3 (3,0)
IE 101 Mfg. Processes	2 (0,6)	Hist 104 Western Civilization	3 (3,0)
or Hist 104 West. Civilization	3 (3,0)	or IE 101 Mfg. Processes	2 (0,6)
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 or 18		18 or 17	

SOPHOMORE YEAR

ChE 202 Intro. Chem. Engr.	1 (0,3)	ChE 203 Intro. Chem. Engr.	2 (1,3)
Chem 214 Analytical Chemistry	5 (3,6)	Engl 204 Survey of Engl. Lit.	3 (3,0)
Engl 203 Survey of Engl. Lit.	3 (3,0)	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)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
20		19	

JUNIOR YEAR

ChE 301 Prin. Chem. Engr.	3 (3,0)	ChE 302 Prin. Chem. Engr.	3 (3,0)
Chem 323 Elem. Org. Chemistry	4 (3,3)	ChE 306 Unit Operations	1 (0,3)
Chem 337 Physical Chemistry	4 (3,3)	ChE 330 Chem. Engr. Thermo.	2 (2,0)
Math 306 Diff. Equations	3 (3,0)	Chem 324 Elem. Organic Chem.	4 (3,3)
Mech 304 Mech. of Matr.	3 (3,0)	Chem 338 Physical Chemistry	4 (3,3)
Approved Electives	3	Approved Electives	6
20		20	

SENIOR YEAR

ChE 401 Prin. Chem. Engr.	3 (3,0)	ChE 409 Plant Design	2 (0,6)
ChE 407 Unit Operations	2 (0,6)	ChE 412 Thesis	2 (0,6)
ChE 411 Chem. Engr. Lib. Matr.	1 (0,3)	ChE 451 Chem. Engr. Kinetics	2 (2,0)
ChE 430 Chem. Engr. Thermo.	3 (3,0)	EE 308 Basic Elect. Engr.	3 (3,0)
EE 307 Basic Elec. Engr.	3 (3,0)	EE 310 Elect. Engr. Lab.	1 (0,3)
Approved Electives	6	IE 402 Metallurgy	3 (2,3)
18		Approved Electives	5
		18	

Irregular students or transfers to Chemical Engineering may substitute Chem 102 for Chem 104.

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

CIVIL ENGINEERING

Civil engineering is the broadest in scope of the engineering professions, being the parent stem from which most of the other branches of engineering have developed. All branches of civil engineering rest on a comparatively compact body of

principles, in which the students are thoroughly trained in the classroom, the drafting room, the laboratory, and the field. Particular effort is made to develop those qualities essential to success in any field of endeavor and to fit the graduate to become a useful citizen—a good business man as well as a successful engineer.

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

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

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

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

CIVIL ENGINEERING

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 107 Engr. Drawing 2 (0,6)	DD 108 Engr. Drawing 2 (0,6)
Engl 101 English Composition ... 3 (3,0)	Engl 102 English Composition ... 3 (3,0)
IE 101 Mfg. Processes 2 (0,6)	Hist 104 Western Civilization ... 3 (3,0)
or Hist 104 Western Civilization 3 (3,0)	or IE 101 Mfg. Processes 2 (0,6)
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 or 18	18 or 17

SOPHOMORE YEAR

CE 205 CE Problems 1 (0,3)	CE 200 Elem. Surveying 2 (1,3)
Econ 201 Prin. of Economics 3 (3,0)	Engl 204 Survey of Engl. Lit. ... 3 (3,0)
Engl 203 Survey of Engl. Lit. ... 3 (3,0)	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)
AS or MS — Basic 1 (2,1)	AS or MS — Basic 1 (2,1)
18	19

SUMMER SURVEY CAMP

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

First Semester

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 Materials	3 (3,0)
Mech 305 Mech. of Matr. Lab.	1 (0,3)
Approved Elective	3

18

Second Semester

CE 306 Prin. of Sanitation	2 (2,0)
CE 310 Structures	3 (2,3)
CE 317 Materials of Constr.	2 (2,0)
Geol 406 Engr. Geology	3 (2,3)
ME 302 Elem. Thermodynamics	3 (3,0)
Mech 303 Dynamics	3 (3,0)
Approved Elective	3

19

SENIOR YEAR

CE 401 Struct. Design	3 (2,3)
CE 402 Struct. Analysis	2 (2,0)
CE 409 Reinf. Concrete	3 (2,3)
Mech 401 Fluid Mech.	3 (3,0)
Mech 403 Fluid Mech. Lab.	1 (0,3)
Approved Electives	6

18

CE 410 Mun. and San. Engr.	3 (2,3)
CE 412 Rein. Concrete Design	2 (1,3)
CE 414 Soil Mech.	3 (2,3)
CE 422 Engr. Ethics	3 (3,0)
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.

ELECTRICAL ENGINEERING

Engineering deals fundamentally with the control of the energies of nature. Electrical Engineering is that branch of engineering which embraces the conversion of primary energy into electrical form, the application of this energy to perform useful work, and the study of electrical methods of carrying out sensing, control, and communication functions.

The curriculum for students in Electrical Engineering contains a selected series of fundamental studies which enable the student to enter any division of the field of Electrical Engineering. In addition, the curriculum includes a selected group of broadening and cultural studies.

The first two years are devoted largely to basic sciences, mathematics, English, and other subjects prerequisite to a study of engineering. In the last two years the courses, 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.

Freshmen entering before September 1958 will have taken CE 101, and will have nine hours of electives in the second semester of the senior year. Those entering as freshmen in September 1958 or later, will have eight hours of electives in the second semester of the senior year, as shown in this catalog.

Any questions regarding scheduling or electives for those concerned with the transition between curricula should be taken up with the appropriate class advisers.

ELECTRICAL ENGINEERING

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 107 Engr. Drawing _____ 2 (0,6)	DD 108 Engr. Drawing _____ 2 (0,6)
Engl 101 English Composition _____ 3 (3,0)	Engl 102 English Composition _____ 3 (3,0)
IE 101 Mfg. Processes _____ 2 (0,6)	Hist 104 Western Civilization _____ 3 (3,0)
or Hist 104 Western Civilization 3 (3,0)	or IE 101 Mfg. Processes _____ 2 (0,6)
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 or 18	18 or 17

SOPHOMORE YEAR

Econ 201 Prin. of Economics _____ 3 (3,0)	EE 214 Elec. Cir. & Fields _____ 3 (3,0)
Engl 203 Survey of Engl. Lit. _____ 3 (3,0)	Engl 204 Survey of Engl. 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 214 Gen. Phys. Lab. _____ 1 (0,3)
Phys 213 Gen. Phys. Lab. _____ 1 (0,3)	Phys 216 Gen. Phys. for El. Engr. 4 (4,0)
AS or MS — Basic _____ 1 (2,1)	AS or MS — Basic _____ 1 (2,1)
19	20

JUNIOR YEAR

EE 313 Elec. Measurements _____ 2 (2,0)	EE 312 Electrical Machinery I _____ 3 (3,0)
EE 315 A. C. Circuits _____ 4 (3,3)	EE 314 Electrical Mach. I Lab. _____ 1 (0,3)
EE 317 Measurements Lab. _____ 1 (0,3)	EE 316 A. C. Circuits _____ 3 (3,0)
Engl 301 Public Speaking _____ 3 (3,0)	EE 320 Electronics I _____ 3 (3,0)
Math 306 Ord. Diff. Equations _____ 3 (3,0)	EE 322 Electronics I Lab. _____ 1 (0,3)
Mech 303 Dynamics _____ 3 (3,0)	Hist 301 U. S. since 1865 _____ 3 (3,0)
Approved Electives _____ 3	Mech 304 Mechanics of Matr. _____ 3 (3,0)
19	Approved Electives _____ 3
	20

SENIOR YEAR

EE 401 Seminar _____ 1 (1,0)	EE 402 Engr. Analysis _____ 1 (0,3)
EE 407 Electronics II _____ 3 (3,0)	EE 410 Transients and Servo. _____ 3 (3,0)
EE 409 Electronics II Lab. _____ 1 (0,3)	ME 304 Heat Transfer _____ 3 (3,0)
EE 415 Advanced Circuits _____ 3 (3,0)	ME 420 Administration _____ 3 (3,0)
EE 417 Electrical Machinery II _____ 3 (3,0)	Approved Electives _____ 8
EE 419 Elec. Machinery II Lab. _____ 1 (0,3)	18
ME 302 Thermodynamics _____ 3 (3,0)	
ME 307 Mechanical Engr. Lab. _____ 1 (0,3)	
Approved Electives _____ 3	
19	

Advanced ROTC or AFROTC. Twelve credits in advanced ROTC or AFROTC; at least three credits in EE Department.

Non ROTC. At least six credits of technical electives, of which at least three credits must be in EE Department; at least three credits in approved general electives.

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.

INDUSTRIAL ENGINEERING

This curriculum is designed for students who desire to enter industry and to perform functions dealing with the design, coordination, improvement and installation of production systems. In any production system it is necessary that the industrial engineer deal with the three ever-present components, which are men, materials, and machines.

To integrate intelligently these components into a production team, the engineer must have a thorough understanding of the basic sciences and engineering sciences applicable to the production system, and must be thoroughly trained in such subjects in his specialized field as Motion and Time Study, Engineering Economics, Job Evaluation and Wage Incentives, Plant Design and Operation, and Production and Quality Control Methods. In order to accomplish this objective the first two years of this curriculum are devoted entirely to the basic sciences and fundamentals necessary for the general field of engineering. During the last two years the student is given basic studies in the related fields of Engineering Mechanics, Electrical Engineering, Mechanical Engineering, and a choice of certain approved electives. However, emphasis in the electives is placed on the subjects more closely related to the student's particular interests.

Throughout this curriculum the student is encouraged to develop initiative, neatness of workmanship, self-reliance, and the values of harmony and good supervision.

INDUSTRIAL 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 107 Engr. Drawing	2 (0,6)	DD 108 Engr. Drawing	2 (0,6)
Engl 101 English Composition	3 (3,0)	Engl 102 English Composition	3 (3,0)
IE 101 Mfg. Processes	2 (0,6)	Hist 104 Western Civilization	3 (3,0)
or Hist 104 Western Civ.	3 (3,0)	or IE 101 Mfg. Processes	2 (0,6)
Math 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 or 18		18 or 17	

SOPHOMORE YEAR

Econ 201 Prin. of Econ.	3 (3,0)	CE 200 Elem. Surveying	2 (1,3)
Engl 203 Survey of Engl. Lit.	3 (3,0)	or IE 201 Metal Processes	2 (1,3)
IE 201 Metal Processes	2 (1,3)	Engl 204 Survey of Engl. Lit.	3 (3,0)
or CE 200 Elem. Surveying ..	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)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)

JUNIOR YEAR

First Semester

EE 307 Basic Elec. Engr. _____	3 (3,0)
EE 309 Basic Elec. Engr. Lab. ___	1 (0,3)
IE 301 Intro. to Ind. Engr. _____	3 (3,0)
IE 304 Motion and Time Study ___	3 (2,3)
IE 306 Mach. Prob. _____	2 (1,3)
Mech 303 Dynamics _____	3 (3,0)
Approved Elective _____	5
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	20

Second Semester

Acct 201 Prin. of Accounting ____	3 (3,0)
DD 308 Mech. & Kin. of Mach. ____	3 (2,3)
EE 308 Basic Elec. Engr. _____	3 (3,0)
EE 310 Basic Elec. Engr. Lab. ___	1 (0,3)
IE 303 Job Eval. & Wage Incen. _	3 (3,0)
Mech 304 Mech. of Materials ____	3 (3,0)
Mech 305 Mech. of Materials Lab. _	1 (0,3)
Approved Electives _____	3
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	20

SENIOR YEAR

IE 406 Plant Oper. & Control ___	3 (2,3)
IE 407 Quality Control _____	3 (2,3)
ME 302 Elem. Thermo. _____	3 (3,0)
ME 307 Mech. Engr. Lab. _____	1 (0,3)
Mech 401 Fluid Mech. _____	3 (3,0)
Approved Electives _____	6
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	19

Engl 301 Public Speaking _____	3 (3,0)
IE 402 Metallurgy _____	3 (2,3)
IE 404 Engr. Economics _____	3 (3,0)
IE 405 Plant Loc. & Layout _____	3 (2,3)
Psych 301 Gen. Psychology _____	3 (3,0)
Approved Electives _____	3
	<hr/>
	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.

MECHANICAL ENGINEERING

Mechanical Engineering deals largely with the production of power from prime sources of energy and the design of wide variety of mechanisms involved in the production and use of this power.

The curriculum for students in Mechanical Engineering follows a sequence beginning with the basic sciences of mathematics, physics and chemistry, continuing through the engineering sciences of thermodynamics, mechanics of solids and fluids, strength of materials, electrical theory, and metallurgy, and ending with synthesis type courses designed to require the student to draw on his entire engineering and technological background.

The economic aspects of all engineering are emphasized as much as possible, and the program is conducted so as to encourage orderly habits of attack and analysis, with the main emphasis on why rather than how. Students are encouraged to develop a broad background along with their scientific and technical training, and humanistic-social courses are an important part of the curriculum.

Mechanical Engineering graduates work with the production and application of power, in research, and in design, development, construction and application of machines, as well as in management.

MECHANICAL ENGINEERING

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 107 Engr. Drawing	2 (0,6)	DD 108 Engr. Drawing	2 (0,6)
Engl 101 English Composition	3 (3,0)	Engl 102 English Composition	3 (3,0)
IE 101 Mfg. Processes	2 (0,6)	Hist 104 Western Civilization	3 (3,0)
or Hist 104 Western Civ.	3 (3,0)	or IE 101 Mfg. Processes	2 (0,6)
Math 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 or 18

18 or 17

SOPHOMORE YEAR

Econ 201 Prin. of Economics	3 (3,0)	Engl 204 Survey of Engl. Lit.	3 (3,0)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Math 204 Integral Calculus	5 (5,0)
IE 201 Metal Processes	2 (1,3)	ME 214 Engr. Problems	1 (0,3)
or ME 214 Engr. Problems	1 (0,3)	or IE 201 Metal Processes	2 (1,3)
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)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)

19 or 18

18 or 19

JUNIOR YEAR

Engl 301 Public Speaking	3 (3,0)	DD 308 Mechanisms and Kine-	
Math 306 Diff. Equations	3 (3,0)	matics of Mach.	3 (2,3)
ME 311 Engr. Thermodynamics	3 (3,0)	EE 307 Basic Elect. Engr.	3 (3,0)
Mech 303 Dynamics	3 (3,0)	EE 309 Elect. Engr. Lab.	1 (0,3)
Mech 304 Mechanics of Matr.	3 (3,0)	ME 304 Heat Transfer	3 (3,0)
Approved Elective	3	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

18

20

SENIOR YEAR

DD 401 Fund. of Machine Design	3 (3,0)	DD 402 Design of Mach. Elements	3 (2,3)
EE 308 Basic Elect. Engr.	3 (3,0)	ME 412 Steam Power	3 (3,0)
EE 310 Elect. Engr. Lab.	1 (0,3)	ME 414 Mech. Engr. Lab.	1 (0,3)
IE 402 Metallurgy	3 (2,3)	ME 417 Engr. Analysis	1 (0,3)
ME 411 Gas Power	3 (3,0)	or ME 418 Thesis	1 (0,3)
ME 413 Mach. Engr. Lab.	1 (0,3)	ME 429 Air Conditioning	3 (3,0)
ME 420 Administration	3 (3,0)	Approved Electives*	9
Approved Electives*	3		

20

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 manufacturing companies are now located in the Southeastern States, centering in South Carolina and neighboring states. This makes Clemson College an appropriate institution for college training in this field. Since there are only ten college level institutions offering training in textiles and since South Carolina has more textile spindles than any other state, Clemson has a real obligation to provide well-trained graduates for South Carolina as well as its share of graduates for the states not having textile schools. The textile industry, realizing the im-

portance of textile training, has contributed approximately one and one-half million dollars, which has enabled Clemson to have one of the top textile schools of the nation, with excellent staff, equipment, and building facilities.

The graduates of the textile schools find positions throughout the textile industry and in a multitude of allied fields. The textile industry in the Southeast is largely managed by these graduates. Down through the years, the demand for textile school graduates has far exceeded the supply.

The Clemson School of Textiles offers three major courses that lead to the degree of Bachelor of Science: Textile Chemistry, Textile Management and Textile Science. A knitting option is offered in the Textile Management curriculum. All three curriculums offer a broad academic program.

The School of Textiles recommends summer employment in the industry. With this experience a student can get more from his classes while in school and this experience will enable him to make a wiser choice in employment when he graduates.

TEXTILE CHEMISTRY

The Textile Chemistry curriculum is a well-rounded educational program especially strong in requirements in English. It is planned to give the students thorough preparation in basic chemistry in addition to textile chemistry, general textile and managerial subjects. Graduates of this curriculum are largely employed in administrative and research positions in finishing plants and synthetic fiber plants as well as in dyestuff and chemical organizations. Many who graduate in this major continue their education through the Master's and Doctor's degree.

TEXTILE CHEMISTRY

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Chem 101 General Chemistry	4 (3,3)	Chem 104 General Chemistry	4 (3,3)
DD 105 Engr. Drawing	2 (0,6)	DD 106 Engr. Drawing	2 (0,6)
Engl 101 English Composition	3 (3,0)	Engl 102 English Composition	3 (3,0)
Gov 101 Am. Natl. Govt.	3 (3,0)	Math 104 Freshman Math.	5 (5,0)
Math 103 Freshman Math.	5 (5,0)	TM 101 Intro. to Textiles	3 (2,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)

SOPHOMORE YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Chem 215 Qual. Analysis	4 (2,6)	Chem 216 Quan. Analysis	4 (2,6)
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)	Hist 104 Western Civilization	3 (3,0)
Phys 201 General Physics	3 (3,0)	Math 204 Integral Calculus	5 (5,0)
Phys 203 General Physics Lab.	1 (0,3)	Phys 202 General Physics	3 (3,0)
WD 221 Fabric Design	3 (2,3)	Phys 204 General Physics Lab.	1 (0,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
20		20	

JUNIOR YEAR

Chem 335 Physical Chemistry	3 (3,0)	Chem 336 Physical Chemistry	2 (2,0)
Econ 201 Principles of Economics ..	3 (3,0)	Engl 301 Public Speaking	3 (3,0)
TC 305 Textile Chemistry	4 (4,0)	TC 306 Textile Chemistry	4 (4,0)
TC 307 Textile Chemistry Lab.	1 (0,3)	TC 308 Textile Chemistry Lab.	1 (0,3)
TM 301 Textile Quality Control	3 (3,0)	TM 302 Textile Quality Control	3 (3,0)
TM 462 Textile Microscopy	2 (1,3)	TM 454 Motion & Time Study	3 (2,3)
Approved Elective*	3	Approved Elective*	3
19		19	

SENIOR YEAR

Econ 301 Labor Problems	3 (3,0)	TC 440 Textile Finishing	3 (1,6)
Engl 401 Advanced Composition ..	3 (3,0)	TC 456 Chem. Syn. Fib. & Fin.	3 (3,0)
TC 442 Thesis	2 (0,6)	TC 462 Chem. Proc. Text.	3 (3,0)
TC 447 Chem. Proc. Text.	3 (3,0)	TC 464 Chem. Proc. Text. Lab.	1 (0,3)
TC 449 Chem. Proc. Text. Lab.	1 (0,3)	TM 403 Textile Management	3 (3,0)
TC 475 Cellulose Chemistry	2 (2,0)	TM 464 Physical Textile Testing ..	2 (1,3)
TM 468 Seminar	1 (1,0)	Approved Elective*	3
Approved Elective*	3		
18		18	

*Approved Electives:

Econ 202, Social Sciences and English on the junior and senior level that do not duplicate required subjects.

Textile courses, physics, chemistry and mathematics beyond those required.

Ag Ec 352—Public Finance.

IM 307—Personnel Management.

Music 402—Music Appreciation.

AS and MS—Advanced.

TEXTILE MANAGEMENT

The Textile Management curriculum is planned to give adequate training in the textile technological and managerial subjects. An unusually strong program is offered in English, including courses in public speaking and technical report writing. The basic sciences are taken care of, including some organic chemistry. The chief outside emphasis is on the social sciences.

The Management curriculum is designed for the student whose interest is in the field of human relations. The strong program in the social sciences emphasizes this.

TEXTILE MANAGEMENT

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Chem 101 Gen. Chemistry	4 (3,3)	Chem 102 Gen. Chemistry	4 (3,3)
DD 105 Engr. Drawing	2 (0,6)	DD 106 Engr. Drawing	2 (0,6)
Engl 101 Engl. Composition	3 (3,0)	Engl 102 Engl. Composition	3 (3,0)
Gov 101 Am. Natl. Govt.	3 (3,0)	Math 104 Freshman Math.	5 (5,0)
Math 103 Freshman Math.	5 (5,0)	TM 101 Intro. to Text.	3 (2,3)
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>	
Econ 201 Prin. of Economics	3 (3,0)	Econ 202 Prin. of Economics	3 (3,0)
Engl 203 Survey of Engl. Lit.	3 (3,0)	Engl 204 Survey of Engl. Lit.	3 (3,0)
Hist 104 Western Civilization	3 (3,0)	Phys 202 General Physics	3 (3,0)
Phys 201 General Physics	3 (3,0)	Phys 204 General Physics Lab.	1 (0,3)
Phys 203 General Physics Lab.	1 (0,3)	WD 221 Fabric Design	3 (2,3)
WD 225 Loom Mechanism	2 (1,3)	WD 226 Loom Mechanism	2 (1,3)
YM 221 Opening and Blending	3 (2,3)	YM 222 Cleaning	3 (2,3)
AS or MS—Basic	1 (2,1)	AS or MS—Basic	1 (2,1)
	19		19

JUNIOR YEAR

Engl 301 Public Speaking	3 (3,0)	Soc 301 Sociology	3 (3,0)
TC 321 Textile Chemistry	3 (3,0)	TC 322 Chem. Proc. Text.	3 (3,0)
TC 323 Textile Chemistry Lab.	1 (0,3)	TC 324 Textile Chemistry Lab.	1 (0,3)
TM 301 Textile Quality Control	3 (3,0)	TM 302 Textile Quality Control	3 (3,0)
WD 301 Fab. Struc. & Des.	2 (1,3)	WD 302 Fabric Analysis	2 (1,3)
WD 309 Knitting	1 (0,3)	YM 322 Draft., Twist., & Wind (II)	3 (2,3)
YM 321 Draft., Twist. & Wind. (I)	3 (2,3)	Approved Elective*	3
Approved Elective*	3		18
	19		

SENIOR YEAR

Engl 401 Advanced Composition	3 (3,0)	Econ 301 Labor Problems	3 (3,0)
TC 421 Color Applied to Text.	3 (3,0)	Psych 301 Gen. Psychology	3 (3,0)
TC 423 Text. Chem. Lab.	1 (0,3)	TM 454 Motion & Time Study	3 (2,3)
TM 401 Textile Costing	5 (3,6)	TM 462 Microscopy	2 (1,3)
TM 403 Textile Management	3 (3,0)	TM 464 Phys. Text. Testing	2 (1,3)
WD 401 Warp Preparation	2 (1,3)	TM 468 Seminar	1 (1,0)
Approved Elective*	3	WD 402 Fabric Development	2 (1,3)
	20	Approved Elective*	3
			19

KNITTING OPTION

A knitting option is offered in the Textile Management curriculum. In the junior and senior years, the student is given advanced courses in knitting instead of those in weaving and designing. This prepares him for the knitting industry.

JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Engl 301 Public Speaking	3 (3,0)	Soc 301 Sociology	3 (3,0)
Psych 301 Gen. Psychology	3 (3,0)	TC 322 Chem. Proc. Text.	3 (3,0)
TC 321 Textile Chemistry	3 (3,0)	TC 324 Textile Chemistry Lab.	1 (0,3)
TC 323 Textile Chemistry Lab.	1 (0,3)	TM 302 Textile Quality Control	3 (3,0)
TM 301 Textile Quality Control	3 (3,0)	WD 322 Hosiery Knitting & Design	3 (2,3)
WD 309 Knitting	1 (0,3)	YM 322 Draft., Twist. & Wind. (II)	3 (2,3)
YM 321 Draft., Twist. & Wind. (I)	3 (2,3)	Approved Elective*	3
Approved Elective*	3		19
	20		

*Approved Electives:

Social Sciences and English on the junior and senior level that do not duplicate required subjects.

Textile courses, physics, chemistry and mathematics beyond those required.

Ag Ec 352—Public Finance.

IM 307—Personnel Management.

Music 402—Music Appreciation.

AS and MS—Advanced.

SENIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Engl 401 Advanced Composition	3 (3,0)	Econ 301 Labor Problems	3 (3,0)
TC 421 Color Applied to Text.	3 (3,0)	TM 454 Motion & Time Study	3 (2,3)
TC 423 Text. Chem. Lab.	1 (0,3)	TM 462 Microscopy	2 (1,3)
TM 401 Textile Costing	5 (3,6)	TM 464 Phys. Tex. Testing	2 (1,3)
TM 403 Textile Management	3 (3,0)	TM 468 Seminar	1 (1,0)
WD 421 Outwear & Underwear	2 (1,3)	WD 422 Flat Knitting	3 (2,3)
Approved Elective*	3	Approved Elective*	3
20		17	

TEXTILE SCIENCE

In the Textile Science curriculum the emphasis is on the basic sciences of mathematics, physics and chemistry. These three subjects make up about 40% of the curriculum.

The textile technological and managerial courses are ample and the English is the same as most curriculums in the College.

The Textile Science curriculum is especially designed for the student with scientific leanings. It prepares him for research and development work as well as for positions in production and standards. It has a very strong foundation for a graduate school program.

TEXTILE SCIENCE

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Chem 101 General Chemistry	4 (3,3)	Chem 104 General Chemistry	4 (3,3)
DD 105 Engr. Drawing	2 (0,6)	DD 106 Engr. Drawing	2 (0,6)
Engl 101 English Composition	3 (3,0)	Engl 102 English Composition	3 (3,0)
Gov 101 Am. Natl. Govt.	3 (3,0)	Math 104 Freshman Math.	5 (5,0)
Math 103 Freshman Math.	5 (5,0)	TM 101 Intro. to Text.	3 (2,3)
AS or MS — Basic	1 (2,1)	AS or MS — Basic	1 (2,1)
18		18	

SOPHOMORE YEAR

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. Physics for Engr.	4 (4,0)	Phys 212 Gen. Phys. for Engr.	4 (4,0)
Phys 213 Gen. Phys. Lab.	1 (0,3)	Phys 214 Gen. Phys. Lab.	1 (0,3)
WD 225 Loom Mechanism	2 (1,3)	WD 226 Loom Mechanism	2 (1,3)
YM 221 Opening & Blending	3 (2,3)	YM 222 Cleaning	3 (2,3)
AS or MS—Basic	1 (2,1)	AS or MS—Basic	1 (2,1)
19		19	

JUNIOR YEAR

Math 306 Diff. Equations	3 (3,0)	Phys 321 Mech. & Prop. of Matter	4 (4,0)
TC 305 Textile Chemistry	4 (4,0)	Phys 323 Experimental Mechanics	1 (0,3)
TC 307 Textile Chemistry Lab.	1 (0,3)	TC 306 Textile Chemistry	4 (4,0)
TM 301 Textile Quality Control	3 (3,0)	TC 308 Textile Chemistry Lab.	1 (0,3)
WD 221 Fabric Design	3 (2,3)	TM 302 Textile Quality Control	3 (3,0)
YM 321 Draft., Twist., & Wind. (I)	3 (2,3)	WD 309 Knitting	1 (0,3)
Approved Elective*	3	YM 322 Draft., Twist., & Wind. (II)	3 (2,3)
20		Approved Elective*	3
		20	

*Approved Electives:

Social Sciences and English on the junior and senior level that do not duplicate required subjects.

Textile courses, physics, chemistry and mathematics beyond those required.

Ag Ec 352—Public Finance.

IM 307—Personnel Management.

Music 402—Music Appreciation.

AS and MS—Advanced.

SENIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
TC 421 Color Applied to Text.	3 (3,0)	Engl 301 Public Speaking	3 (3,0)
TC 423 Text. Chem. Lab.	1 (0,3)	Phys 341 Electricity & Magnetism ..	3 (3,0)
TM 401 Textile Costing	5 (3,6)	TM 454 Motion and Time Study ..	3 (2,3)
TM 403 Textile Management	3 (3,0)	TM 462 Textile Microscopy	2 (1,3)
WD 301 Fabric Structure & Design	2 (1,3)	TM 464 Physical Textile Testing ..	2 (1,3)
WD 401 Warp Preparation	2 (1,3)	TM 468 Seminar	1 (1,0)
Approved Elective*	3	Approved Elective*	3
	19		17

*Approved Electives:

Econ 201 and Econ 202. Social Sciences and English on the junior and senior level that do not duplicate required subjects.

Textile courses, physics, chemistry and mathematics beyond those required.

Ag Ec 352—Public Finance.

IM 307—Personnel Management.

Music 402—Music Appreciation.

AS and MS—Advanced.

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, MR. EDEL, MR. WILLIS

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 ECONOMICS

MR. AULL

MR. STEPP, MR. BAUKNIGHT, MR. BROWN, MR. TODD

AG EC 202—AGRICULTURAL ECONOMICS—3 cr. (3 and 0)

An analytical survey of the various subdivisions of agricultural economics, to include farm organization, enterprise analysis, land economics,

marketing, farm prices, governmental farm policies, and the relation of agriculture to the national and international economy. *Prerequisite*: Econ 201.

AG EC 302—FARM MANAGEMENT—3 cr. (2 and 3)

Business principles underlying the organization and operation of individual farms. Such factors as proper balance between enterprises and use of sound economic principles are considered from the viewpoint of continuous profits. *Prerequisite*: Econ 201.

AG EC 305—FARM ACCOUNTING—3 cr. (2 and 3)

Double-entry bookkeeping is stressed in the foundation of this course. Study is then made of special journals, simplifications for farm record keeping, farm inventories, farm budgets, interpretation of financial statements, and the factor method of farm business analysis.

AG EC 309—INTRODUCTION TO MARKETING—3 cr. (3 and 0)

A general introduction to the field of marketing with emphasis on marketing functions, institutions and channels of distribution. Special emphasis is given to recent changes and developments in marketing policies and practices. Other subjects covered include objectives and uses of marketing research, product design, brand policy, and pricing. Attention is given to industrial products as well as agricultural commodities. *Prerequisite*: Econ 201.

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

Principles of financing government, sources of public revenue, objects of public 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*: Econ 201.

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

Steps and conditions attending the marketing of livestock and dairy products are considered. Included are selling methods; factors affecting price, production and utilization of meats; fluid milk and other dairy products; practices of buyers and packers; activities of state and federal governments; pricing policies and price determination; market news services; and psychology and preferences of consumers. *Prerequisite*: Junior standing.

AG EC 401—STATISTICS—3 cr. (2 and 3)

An elementary course dealing with the organization and presentation of statistical data, measures of central tendency, simple correlation analysis, measures of variation, and the more important statistical tests of significance as applied to scientific research and quality control.

AG EC 405—SEMINAR—1 cr. (1 and 0)

An examination of the relation of economics and sociology to specific problems. *Prerequisite*: Major in Agricultural Economics.

AG EC 406—SEMINAR—1 cr. (1 and 0)

A continuation of Ag Ec 405.

AG EC 451—AGRICULTURAL COOPERATION—2 cr. (2 and 0)

The principles and practices of business organization and management governing the successful operation of cooperative business enterprises. Major emphasis is placed upon cooperative selling, processing, purchasing, and service enterprises that serve farm people. *Prerequisite*: Econ 201.

AG EC 452—AGRICULTURAL POLICY—3 cr. (3 and 0)

A critical examination of government policies and programs affecting agriculture.

AG EC 456—PRICES—3 cr. (3 and 0)

A review of the basic theory of price under competitive conditions and various modifications; nature, measurement and causes of daily, seasonal and cyclical price fluctuations; geographical price relationship; nature, function and behavior of futures markets; and demand and supply. *Prerequisite*: Econ 201 and permission of Instructor.

AG EC 460—AGRICULTURAL FINANCE—2 cr. (2 and 0)

A critical study of the financial needs of agriculture and of the organization, functions and interrelationships of agencies developed to meet these needs. *Prerequisite*: Econ 201.

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

Statistical methods used in the collection, analysis, presentation and interpretation of economic data. Special attention is given to time series analysis, the construction of index numbers and the designing of samples for surveys in the social science fields. *Prerequisite*: Ag Ec 401.

AG EC 501—ADVANCED FARM MANAGEMENT—3 cr. (2 and 3)

AG EC 503—LAND ECONOMICS—3 cr. (3 and 0)

AG EC 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 EDUCATION

MR. MONROE

MR. WHITE, MR. BOWEN, MR. KIRKLEY, MR. STRIBLING

AG ED 301—INTRODUCTION TO EDUCATION—3 cr. (2 and 3)

Principles of education, development of agricultural education, and an

introduction to the formulation of instructional programs for the teaching of farm people by vocational agricultural teachers.

AG ED 401—METHODS IN AGRICULTURAL EDUCATION—3 cr. (2 and 3)

A study of appropriate methods of teaching vocational agriculture in high schools. The course includes procedures for organizing teaching programs, teaching high school students, and directing F.F.A. activities.

AG ED 406—DIRECTED TEACHING—6 cr. (0 and 18)

This course is planned to give experience in organizing courses and in teaching vocational agriculture. Six weeks of directed teaching in selected schools in the state is required. *Prerequisite:* Ag Ed 401 and Ag Ed 422.

AG ED 422—PROBLEMS IN ADULT EDUCATION—3 cr. (2 and 3)

Pertinent problems in adult education including determination of needs, securing and organizing necessary instructional material, planning lessons, and teaching and supervising special groups.

AG ED 431—METHODS IN CONSERVATION EDUCATION—3 cr. (3 and 0)

In this course teachers and student teachers study various techniques appropriate to teaching conservation. Instruction is applicable to both elementary and high school teachers. (Offered in Summer School only.)

AG ED 463—ADVANCED CONSERVATION EDUCATION—3 cr. (3 and 0)

The broader aspects of conservation education. The course includes historical, geographical, and national conservation problems. It will be of special interest to those dealing directly with conservation problems. (Offered in Summer School only.)

AG ED 501—RECENT DEVELOPMENTS IN THE TECHNOLOGY OF AGRICULTURE—3 cr. (2 and 3)

AG ED 502—RECENT DEVELOPMENTS IN THE TECHNOLOGY OF AGRICULTURE—3 cr. (2 and 3)

AG ED 504—SPECIAL PROBLEMS IN TEACHING VOCATIONAL AGRICULTURE—3 cr. (2 and 3)

AG ED 515—ADVANCED METHODS OF TEACHING FARM MECHANICS—3 cr. (3 and 0)

AG ED 520—TEACHING YOUNG FARMERS—3 cr. (3 and 0)

AG ED 525—SUPERVISION OF STUDENT TEACHING—3 cr. (3 and 0)

AG ED 591—RESEARCH—3 cr.

AG ED 592—RESEARCH—3 cr.

AGRICULTURAL ENGINEERING*

MR. SNELL

MR. WILSON, MR. ANDERSON, MR. ROGERS, MR. CRAIG, MR. MCLEOD

AG EN 201—FARM MACHINERY—3 cr. (2 and 3)

The functional operation of modern farm machinery and its adapta-

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

tion to the major farming operations of the Southeast. A special effort is made to give a thorough understanding of the possible uses and the limitations of machines and power units so that wise selection and proper use may be made. *Prerequisite*: Math 103.

AG EN 202—FARM EQUIPMENT—3 cr. (2 and 3)

The engineering elements of farm machinery follow a study of such basic subjects as materials of construction and transmission of power. 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—1 cr. (0 and 3)

Logical approach to all types of problems solved by the use of the slide rule 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)

Correct methods and underlying reasons in proper use and maintenance of hand and power tools are emphasized. Principal topics include: Carpentry, painting and finishing, soldering and sheet metal work, farm concrete, pipe fitting and plumbing, fencing, and farm and home water supply systems. A course for agricultural students.

AG EN 207—FARM MECHANICS—2 cr. (1 and 3)

Methods, techniques and elementary sciences applied to the use of tools and equipment pertinent to farm electrification, structures and machines. Designed for agricultural engineering majors. *Prerequisite*: Math 103, IE 101 and DD 108.

AG EN 301—SOIL CONSERVATION—3 cr. (2 and 3)

Engineering and agronomic principles are applied to water management in agriculture. Elementary surveying, mathematics, crops and soil fundamentals are embodied into principles and practices of erosion control, drainage, water conservation and irrigation. A course for agricultural students. *Prerequisite*: Math 103.

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 power development, power transmission, and accessories. Topics include thermodynamic principles; power, its transmission and measurement; traction; hitches; stability and other factors which make the tractor a functionally sound agricultural machine. *Prerequisite*: 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 agriculture curriculums, involving a study of electric and other utilities on the farm and in the home. Selection, installation and maintenance of wiring systems, motors and controls, home water systems and sewage disposal systems are emphasized. *Prerequisite:* Junior standing.

AG EN 401—SOIL AND WATER CONSERVATION ENGINEERING—3 cr. (2 and 3)

Elementary meteorology, hydrology, soil physics, and principles of fluid mechanics are used to form the basis of analysis and design of water-control structures such as terraces, outlet channels, diversions, dams, spillways, flumes and drop inlets. *Prerequisite:* CE 200, Agron 202, and enrollment in Mech 401.

AG EN 402—DRAINAGE AND IRRIGATION—3 cr. (2 and 3)

Surface and sub-surface drainage principles, including flow of water through soils, channel flow and drainage requirements are used in the design of open ditch and tile drainage systems. Irrigation topics include irrigation methods, sources of water for irrigation, the hydraulics of sprinkler irrigation equipment, pumps and power units, water requirements of crops and the design of sprinkler irrigation systems. *Prerequisite:* Ag En 401 and Mech 401.

AG EN 406—ADVANCED FARM MACHINERY—3 cr. (2 and 3)

The application of engineering principles to the design, development, and manufacturing of farm machinery. A course designed for seniors majoring in agricultural engineering. *Prerequisite:* Ag En 351, Mech 304.

AG EN 409—AGRICULTURAL ENGINEERING SEMINAR—1 cr. (1 and 0)

This course is provided to acquaint the student with research and reporting 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)

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 481—FUNDAMENTALS OF GINNING ENGINEERING—3 cr. (2 and 3)

An analysis of the engineering requirements and associated problems in all phases of ginning such as handling, storage, drying, separating lint, cleaning, pressing, disposing of foreign matter, quarantine treatment, power requirements and safety precautions. *Prerequisite*: Mech 304 or equivalent.

AG EN 501—SPECIAL PROBLEMS IN AGRICULTURAL ENGINEERING—3 cr. (3 and 0)

AG EN 504—ENGINEERING APPLICATIONS TO AGRICULTURAL PROCESSING—3 cr. (2 and 3)

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 582—ADVANCED GINNING ENGINEERING—3 cr. (3 and 0)

AG EN 591—RESEARCH—3 cr.

AG EN 592—RESEARCH—3 cr.

AGRONOMY

MR. COLLINGS

MR. C. M. JONES, MR. J. W. JONES, MR. BOYKIN, MR. CRADDOCK, MR. PAGE,
MR. SHELLEY, MR. MOORE

AGRON 101—FARM CROPS—3 cr. (2 and 3)

A fundamental course in crop production, including the crops of the major agricultural areas of the world and especially the crops of South Carolina. Included in the laboratory work is the study of the vegetative and seed characteristics of legumes, grasses, weeds and the major field crops.

AGRON 202—SOILS—3 cr. (2 and 3)

A basic foundation in soil science is presented with emphasis on the chemical and physical properties of soil, the activities of the living soil organisms, and the origin and classification of soils. This basic information is related to correct soil management. *Prerequisite*: Chem 101 and 102.

AGRON 301—FERTILIZERS AND MANURES—3 cr. (3 and 0)

Sources, mining and manufacture, composition, physical characteristics, and use of fertilizers and manures. A detailed study is made of crop responses to fertilizer use. *Prerequisite*: Agron 202.

AGRON 302—GENETICS—3 cr. (2 and 3)

A general coverage of the basic principles of genetics. Examples illus-

trating the fundamentals of heredity and variation are given for plants and animals, including man.

AGRON 306—FORAGE AND PASTURE CROPS—3 cr. (3 and 0)

The characteristics, establishment, utilization and maintenance of crops for hay, silage, and pasture. Crops valuable in South Carolina are emphasized. *Prerequisite*: Agron 101.

AGRON 308—PHYSICAL AND CHEMICAL EDAPHOLOGY—3 cr. (1 and 6)

A study of the physical and chemical properties of soils and their determination in the laboratory. Special emphasis is placed on the relation of these properties to the potential fertility, management practices, and water holding capacity of soils. *Prerequisite*: Agron 202.

AGRON 401—ADVANCED CROP AND SEED LABORATORY—1 cr. (0 and 3)

The identification of common field crop varieties, grasses, legumes, and weeds by vegetative and seed characteristics. Experience is gained in the rating of field crop varieties for important agronomic characteristics.

AGRON 403—SOIL CLASSIFICATION—2 cr. (1 and 3)

Theoretical and practical phases of soil survey, formation and classification in relation to land usage and plant adaptability. *Prerequisite*: Agron 202 or consent of instructor.

AGRON 405—PLANT BREEDING—3 cr. (2 and 3)

The application of genetic principles to the development of improved crop plants. Principal topics include the genetic and cytogenetic basis of plant breeding, mode of reproduction, techniques in selfing and crossing, methods of breeding, inheritance in the major crops, and biometrical methods. *Prerequisite*: Agron 302.

AGRON 409—COTTON AND TOBACCO—3 cr. (3 and 0)

History, morphology, physiology, fertilization, cultivation, insect and disease control, varieties, breeding, harvesting, grading and marketing of American Upland cotton and flue cured tobacco. The two crops are studied separately, about half a semester being devoted to each. *Prerequisite*: Agron 101.

AGRON 452—SOIL FERTILITY AND MANAGEMENT—2 cr. (2 and 0)

Principles of crop rotations, soil fertility, soil management, and other factors necessary for the practical utilization of soils. *Prerequisite*: Agron 202 or consent of instructor.

AGRON 455—SEMINAR—1 cr. (1 and 0)

Student presentation of current agronomic topics of special interest in crop production appearing in recent scientific journals and other publications.

AGRON 456—SEMINAR—1 cr. (1 and 0)

Student presentation of current topics of special interest in the field of soil science appearing in recent scientific journals and other publications.

AGRON 468—INTRODUCTION TO RESEARCH—2 cr. (1 and 3)

Principles, developments, and changes in research methods related to certain fields of agricultural research. The students obtain practice in experimental techniques, scientific writing and the use and maintenance of various research instruments and equipment.

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 506—SPECIAL PROBLEMS—2 cr. (2 and 0)

AGRON 507—SOIL PHYSICS—3 cr. (2 and 3)

AGRON 591—RESEARCH—3 cr.

AGRON 592—RESEARCH—3 cr.

AIR SCIENCE

COLONEL THOMPSON

LT. COL. DUGGER, CAPT. BREWER, CAPT. GUGGINO, CAPT. MONTGOMERY,
CAPT. SKILLMAN, M/SGT. GAFFNEY, T/SGT. STAMEY,
S/SGT. BEAM, S/SGT. MINSHALL

AS 109—FOUNDATIONS OF AIR POWER—1 cr. (2 and 1)

A general survey of Air Power designed to provide the student with an understanding of the elements and potentials of air power and basic aeronautical science. Laboratory periods provide training in drill fundamentals and leadership.

AS 110—FOUNDATION OF AIR POWER—1 cr. (2 and 1)

A continuation of AS 109 and laboratory phase of basic military training.

AS 209—ELEMENTS AND POTENTIALS OF AIR POWER—1 cr. (2 and 1)

Introduction to second year AFROTC, elements of Aerial Warfare with emphasis on Air Ocean, principles of targets, aerial weapons, air bases, and air operations. Careers and professional opportunities in the United States Air Force and leadership laboratory.

AS 210—ELEMENTS AND POTENTIALS OF AIR POWER—1 cr. (2 and 1)

A continuation of AS 209. A study of weapon delivery, aircraft characteristics, designs and production; types and locations of air bases, support and organizations. Leadership laboratory with emphasis on Flight, Squadron drill.

AS 309—THE AIR FORCE OFFICER IN THE AIR AGE—3 cr. (4 and 1)

Introduction to advanced AFROTC. A study of the Air Force Com-

mander and his staff and principles of staff work; Air Force Base functions; creative problem solving and communicating techniques. Laboratory phase provides higher cadet non-commissioned officer training.

AS 310—THE AIR FORCE OFFICER IN THE AIR AGE—3 cr. (4 and 1)

A continuation of AS 309. Instructing in the Air Force; the military justice system, courts and boards, aerial navigation; weather, preparation for summer training. Continuation of leadership laboratory.

AS 409—LEADERSHIP AND AIR POWER CONCEPTS—3 cr. (4 and 1)

A critique of summer camp; career guidance; moral responsibilities of Air Force officers; leadership and management seminar; military aviation and evolution of warfare. Cadet commissioned officer training in responsibility, operation and conduct of leadership laboratory.

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 and briefing for commissioned service. Cadet commissioned officer training with emphasis on Squadron, Group, and Wing drill and supervision of parades, ceremonies and reviews.

ANIMAL HUSBANDRY

MR. WHEELER

MR. GODLEY, MR. RITCHIE, MR. COOK, MR. HANDLIN

AH 101, 103—TYPES AND BREEDS—3 cr. (2 and 3)

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)

Feed nutrients, digestion, metabolism of feed stuffs, nutritive ratios, feeding standards, and the balancing of rations. *Prerequisite*: AH 101, 103 and Chem 220.

AH 303—FEEDS AND FEEDING LABORATORY—1 cr. (0 and 3)

Practical work in mixing and balancing rations and identifying feed stuffs. *Prerequisite*: AH 101, 103 and Chem 220.

AH 304—ANIMAL PRODUCTION—2 cr. (2 and 0)

A course to acquaint Agricultural Engineering students with the basic principles of Animal Production. Special emphasis is placed on buildings, equipment, feed and water requirements for farm animals.

AH 305—MEAT GRADING AND SELECTION—2 cr. (1 and 3)

Classification, grading and selection of beef, lamb and pork carcasses and wholesale cuts. Factors influencing quality and value. Students enrolled in this course are eligible to compete in Intercollegiate Meat Judging Contests. *Prerequisite*: AH 101, 103.

AH 306—JUDGING—2 cr. (1 and 3)

Selection, breed characteristics and grading of beef cattle, sheep and swine. Students enrolled in this course are eligible to compete in the

Southeastern Intercollegiate Livestock Judging Contest. *Prerequisite:* AH 101, 103.

AH 310—PORK PRODUCTION—3 cr. (3 and 0)

Feeding, breeding, management, and marketing of hogs. Emphasis is placed on winter and summer forages, protein supplements, mineral mixtures, and sanitation practices. In laboratory grading, selection, feeding, management and care of swine is given considerable attention. *Prerequisite:* AH 301.

AH 314—PORK PRODUCTION LABORATORY—1 cr. (0 and 3)

Practical application of swine production practices. *Prerequisite:* AH 301.

AH 353—MEATS—1 cr. (1 and 0)

The chemical and physical composition of meat, meat hygiene; nutritive value; curing; freezing; and meat by-products. *Prerequisite:* AH 101, 103.

AH 355—MEATS LABORATORY—2 cr. (0 and 6)

The selection and grading of meat animals and carcasses. Practical work in slaughtering of animals and in the cutting, curing and freezing of meats. Emphasis is placed on the identification of wholesale and retail cuts. *Prerequisite:* AH 101, 103.

AH 401—BEEF PRODUCTION—3 cr. (3 and 0)

Breeding, feeding, management and grading of beef cattle. Emphasis is placed on year-round grazing. *Prerequisite:* AH 301.

AH 402—HORSE AND SHEEP PRODUCTION—3 cr. (2 and 3)

The breeding, feeding and care of horses and sheep; the shearing and marketing of sheep and wool; the adaptability of breeds; and parasite and disease control. *Prerequisite:* AH 301.

AH 403—BEEF PRODUCTION LABORATORY—1 cr. (0 and 3)

Practical application of beef production practices. *Prerequisite:* AH 301.

AH 405—ADVANCED JUDGING—1 cr. (0 and 3)

A continuation of AH 306 for students who are interested in participating in judging contests or in receiving special training in the selection of breeding cattle, sheep and swine. Also judging and grading of market classes are considered. *Prerequisite:* AH 306.

AH 406—SEMINAR—2 cr. (2 and 0)

Special problems in animal production. Each student is given a subject on which he makes weekly reports of progress before seminar group. *Prerequisite:* AH 301.

AH 452—ANIMAL BREEDING—3 cr. (2 and 3)

The fundamental principles relating to the breeding and improvement of livestock including variation, heredity, selection, linebreeding, inbreeding, cross-breeding and other related subjects. *Prerequisite:* Agron 302.

- AH 502—TOPICAL PROBLEMS—1-3 cr. (1-3 and 0)
 AH 503—MEAT TECHNOLOGY—3 cr. (3 and 0)
 AH 504—METHODS IN ANIMAL BREEDING—3 cr. (3 and 0)
 AH 505—NUTRITION OF MEAT ANIMALS—3 cr. (3 and 0)
 AH 591—RESEARCH—3 cr.
 AH 592—RESEARCH—3 cr.

ARCHITECTURE

MR. McCLURE

MR. ELLNER, MR. GUNNIN, MR. MEANS, MR. PAGE, MR. SPEER, MR. YOUNG,
 MR. COOLEGE, MR. HUNTER, *MR. MINTON, MR. WEATHERILL,
 MR. CRAIG, MR. GORDON

ARCH 103—ARCHITECTURAL COMPUTATIONS—1 cr. (1 and 0)

Simple problems illustrating the application of mathematics to architectural procedures. Use of slide rule.

ARCH 105—VISUAL ARTS—2 cr. (0 and 6)

Elementary studio work in drawing, painting and related media.

ARCH 106—VISUAL ARTS—2 cr. (0 and 6)

Continuation of Arch 105.

ARCH 151—BASIC DESIGN COURSE GROUP—5 cr. (0 and 15)

Studio problems in visual fundamentals, including principles of graphic and three dimensional representation. Adjunct lectures and exercises in architectural theory and basic construction are included in the content of the course group.

ARCH 152—BEGINNING ARCHITECTURAL DESIGN COURSE GROUP—5 cr. (0 and 15)

Studio problems in elements of architecture, including principles of graphic and three dimensional representation. Lectures and exercises in architectural theory and basic construction are continued. *Prerequisite*: Arch 151 with C standing.

ARCH 205—VISUAL ARTS—2 cr. (0 and 6)

Intermediate studio work in drawing, painting and related media.

ARCH 206—VISUAL ARTS—2 cr. (0 and 6)

Continuation of Arch 205.

ARCH 215—BUILDING CONSTRUCTION—2 cr. (2 and 0)

A study of building materials, their manufacture and use in construction. For students not majoring in Architecture.

ARCH 216—BUILDING CONSTRUCTION—2 cr. (2 and 0)

Continuation of Arch 215. For students not majoring in Architecture.

*On leave.

ARCH 251—ARCHITECTURAL DESIGN COURSE GROUP—6 cr. (0 and 18)

The design of small buildings with attention to man's functional needs, aesthetics and simple structural analysis. Studio problems and related lectures. *Prerequisite*: Arch 152 with C standing.

ARCH 252—ARCHITECTURAL DESIGN COURSE GROUP—6 cr. (0 and 18)

Continuation of Arch 251. *Prerequisite*: Arch 251 with C standing.

ARCH 305—VISUAL ARTS—2 cr. (0 and 6)

Principles of Printmaking and solution of studio problems in the graphic arts.

ARCH 306—VISUAL ARTS—2 cr. (0 and 6)

Continuation of Arch 305.

ARCH 309—ARCHITECTURAL HISTORY—3 cr. (3 and 0)

The development of architecture and related arts from pre-history to the Romanesque.

ARCH 310—ARCHITECTURAL HISTORY—3 cr. (3 and 0)

The development of architecture and related arts from the period of the Romanesque to the Renaissance. *Prerequisite*: Arch 309.

ARCH 311—ARCHITECTURAL HISTORY—2 cr. (2 and 0)

The development of architecture from the Renaissance through the Nineteenth Century. *Prerequisite*: Arch 310.

ARCH 351—ARCHITECTURAL DESIGN COURSE GROUP—7 cr. (0 and 21)

The design of buildings of intermediate complexity with special attention to detail and development. Studio problems and related lectures. *Prerequisite*: Arch 252 with C standing.

ARCH 352—ARCHITECTURAL DESIGN COURSE GROUP—7 cr. (0 and 21)

Continuation of Arch 351. *Prerequisite*: Arch 351 with C standing.

ARCH 405—VISUAL ARTS—2 cr. (0 and 6)

Advanced studio work in drawing, painting and three dimensional media. *Prerequisite*: Fourth year standing.

ARCH 406—VISUAL ARTS—2 cr. (0 and 6)

Continuation of Arch 405.

ARCH 407—INDUSTRIAL DESIGN—2 cr. (1 and 3)

The design of objects for every-day living, including presentation by drawing and model.

ARCH 408—INDUSTRIAL DESIGN—2 cr. (1 and 3)

Continuation of Arch 407.

ARCH 409—ART APPRECIATION—3 cr. (3 and 0)

A survey of man's production in the Visual Arts with particular attention to the environmental factors in society which demand art and a study of techniques used by the artist. Illustrated lectures and collateral reading.

ARCH 411—HISTORY OF ART—3 cr. (3 and 0)

Seminar in the Arts covering detailed study of some particular aspect or period. Limited to students with third year standing and above.

ARCH 412—HISTORY OF ART—3 cr. (3 and 0)

Continuation of Arch 411. *Prerequisite*: Arch 411.

ARCH 415—STRUCTURAL METHODS—2 cr. (2 and 0)

A lecture course relating concrete and steel structural systems to contemporary considerations of function, aesthetics and economics. A special study is made of building codes and other regulations. *Prerequisite*: Fourth year standing.

ARCH 451—ARCHITECTURAL DESIGN COURSE GROUP—8 cr. (0 and 24)

The programming and solution of complex building design problems, including interior and site development and Contract Documents. *Prerequisite*: Arch 352 with C standing.

ARCH 452—ARCHITECTURAL DESIGN COURSE GROUP—8 cr. (0 and 24)

Continuation of Arch 451. *Prerequisite*: Arch 451 with C standing.

ARCH 453—ADVANCED ARCHITECTURAL CONSTRUCTION—4 cr. (1 and 9)

A study of the methods, materials, and details involved in the construction of a complex multi-storied building. *Prerequisite*: Fourth year standing.

ARCH 475—MECHANICAL PLANT—2 cr. (1 and 3)

A study of the water supply, plumbing, heating and ventilating systems of present-day buildings.

ARCH 476—MECHANICAL PLANT—2 cr. (1 and 3)

A study of air-conditioning, electrical systems, lighting, mechanical transportation and acoustics as applied to contemporary buildings. *Prerequisite*: Arch 475.

ARCH 480—ARCHITECTURAL OFFICE PRACTICE—2 cr. (2 and 0)

General consideration of architectural office procedures. Study of the professional relationship of the architect to client and contractor, including problems of ethics, law, and business.

ARCH 481—ARCHITECTURAL OFFICE PRACTICE—2 cr. (2 and 0)

A continuation of Arch 480. *Prerequisite*: Arch 480.

ARCH 491—ARCHITECTURAL AND TOWN PLANNING DESIGN—11 cr. (5 and 18)

Lectures and studio problems in advanced architectural design and Town Planning. Course content will include pre-thesis studies. *Prerequisite*: Arch 452 with C standing.

ARCH 492—ARCHITECTURAL THESIS—11 cr. (5 and 18)

The student working individually will carefully program an environmental problem of appropriate scope, and conduct his own comprehen-

sive research. He will make a complete oral, written and visual presentation of his solution. *Prerequisite*: Arch 491.

ARCH 493—STRUCTURAL THESIS RESEARCH—5 cr. (0 and 15)

Studio and laboratory research studies preliminary to undertaking a Thesis in Architectural Structures. *Prerequisite*: Arch 453.

ARCH 494—THESIS IN ARCHITECTURAL STRUCTURES—11 cr. (5 and 18)

The student working individually with laboratory and lecture support will prepare and present a Structural Thesis of appropriate scope and complexity. *Prerequisite*: Arch 493.

BACTERIOLOGY

MR. RUSH

MR. BOND

BACT 301—GENERAL BACTERIOLOGY—4 cr. (3 and 3)

Morphology, physiology, classification, distribution, and cultivation of microorganisms; effects of organisms on their environment; microorganisms and health. *Prerequisite*: Bot 101; Chem 101, 102.

BACT 310—ADVANCED BACTERIOLOGY—4 cr. (2 and 6)

Metabolism, nutrition, growth, and death of bacteria; microbiological assays, and industrial fermentation; emphasis on laboratory procedures for the identification of the more common taxonomic groups. *Prerequisite*: Bact 301; Chem 220 or 323 and 324.

BACT 402—DAIRY BACTERIOLOGY—3 cr. (2 and 3)

Morphology, physiology and culturing of microorganisms of importance in dairy products; standard methods for the determination of numbers of bacteria, yeasts, and molds in various dairy products. *Prerequisite*: Bact 301.

BACT 406—SANITARY BACTERIOLOGY—4 cr. (3 and 3)

Designed primarily for Engineering students. The fundamentals of Bacteriology followed by the relation of bacteria to water purification and sewage disposal. *Prerequisite*: Chem 101 and 102.

BACT 410—SOIL MICROBIOLOGY—3 cr. (2 and 3)

The role of microorganisms in the decomposition of organic substances; transformation of nitrogen and mineral substances in the soil; interrelationships between higher plants and soil microorganisms; importance of microorganisms in soil fertility. *Prerequisite*: Bact 301.

BACT 501—TAXONOMY OF BACTERIA—3 cr. (2 and 3)

BACT 502—ADVANCED BACTERIOLOGICAL TECHNIC—4 cr. (2 and 6)

BACT 505—PHYSIOLOGY OF BACTERIA—3 cr. (2 and 3)

BACT 591—RESEARCH—3 cr.

BACT 592—RESEARCH—3 cr.

BOTANY

MR. EPPS

MR. ARMSTRONG, MR. RUTLEDGE, MR. WHITNEY, MR. MATHEWS,
MR. ALEXANDER

BOT 101—GENERAL BOTANY—4 cr. (3 and 3)

The form, structure and physiology of the higher plants, followed by the algae, bacteria, fungi, liverworts, mosses and ferns, with the application of the biological laws. Descriptions, life histories and adaptation of representative organisms.

BOT 351—PLANT MORPHOLOGY—4 cr. (2 and 6)

The structure of vegetative and reproductive parts of plants representing the major plant groups except bacteria and fungi. Taught fall 1958 and alternate years thereafter. *Prerequisite*: Bot 101.

BOT 352—PLANT PHYSIOLOGY—4 cr. (3 and 3)

The relations and processes which have to do with the maintenance, growth and reproduction of plants, including absorption of matter and energy, water relations of the plant, utilization of reserve products and liberation of energy. *Prerequisite*: Bot 101; Chem 101 and 102; Phys 201 and 203 or Phys 211 and 213.

BOT 355—HISTOLOGY—2 cr. (0 and 6)

The principles of fixing, cutting and staining plant tissues and the various other processes of micro-technique and their application to specific forms of plants. *Prerequisite*: Bot 101; Chem 101 and 102.

BOT 356—TAXONOMY—3 cr. (1 and 6)

The identification, classification, distribution and interrelationship of flowering plants with emphasis on the flora of South Carolina. *Prerequisite*: Bot 101.

BOT 401—PLANT PATHOLOGY—3 cr. (2 and 3)

The major plant diseases of the South, their symptoms and control and the nature of the causal agents or factors. *Prerequisite*: Bot 101.

BOT 402—ECONOMIC BOTANY—3 cr. (2 and 3)

Plants and plant products and their relationship to human history and contemporary life. Sources of plant products, especially those outside the scope of courses in Agronomy and Horticulture. *Prerequisite*: Bot 101. Other students who present evidence of good scholarship may elect.

BOT 451—MORPHOLOGY OF THE FUNGI—3 cr. (2 and 3)

The morphology and taxonomy of the fungi, with special emphasis on methods of pure culture as they apply to parasitic and saprophytic forms. *Prerequisite*: Bot 101 and 401.

BOT 452—ECOLOGY—4 cr. (2 and 6)

The fundamental principles of the relations between plants and environmental conditions with special attention to local ecological relationships and problems. *Prerequisite*: Bot 101.

BOT 501—ADVANCED PLANT PHYSIOLOGY—4 cr. (2 and 6)

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—CONTROL OF PLANT DISEASES—2 to 4 cr. (2 and 0 or 2 and 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)

The occurrence and properties of pottery raw materials. Special attention is devoted to the occurrence of natural pottery materials in South Carolina, and the methods and equipment used in preparing these materials. A discussion is included on materials available from commercial supply houses.

CR AR 102—POTTERY DRYING AND FIRING—3 cr. (3 and 0)

The drying and firing processes used in pottery making. A discussion is included on the design and construction of simple pottery kilns and the student is required to build and operate a small outdoor kiln. The laboratory work demonstrates the drying and firing behavior of pottery.

CR AR 301—POTTERY GLAZES—3 cr. (3 and 0)

The materials and methods used in preparing glazes and a study of the methods used in decorating pottery products. *Prerequisite*: Cr Ar 101 and 102.

CR AR 401—ADVANCED POTTERY—3 cr. (2 and 3)

The student is given advanced training in pottery techniques and pottery equipment. *Prerequisite*: Cr Ar 101 and 102.

CERAMIC ENGINEERING

MR. ROBINSON

MR. WILSON

MR. FAIN

CR EN 201—INTRODUCTION TO CERAMIC ENGINEERING—2 cr. (2 and 0)

The unit operations of ceramic manufacture and the fundamentals that form the basis of these operations. In addition, a study is made of the properties of ceramic product, relating composition and particle or aggregate structure to these properties. Laboratory techniques for determining these properties are included in this course.

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)

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)

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)

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)

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)

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)

The manufacture and properties of various glass products.

CR EN 412—RAW MATERIAL PREPARATION—3 cr. (3 and 0)

The equipment and processes used in the crushing and grinding of raw materials, the separation and classification of particle sizes, and the separation and purification of minerals by mineral dressing methods.

CR EN 416—CEMENT, LIME AND PLASTER—3 cr. (3 and 0)

The manufacturing methods, properties and uses of various cementing materials.

CR EN 418—PROCESS CONTROL—3 cr. (3 and 0)

Process control techniques and apparatus with particular emphasis on temperature measurement and control systems. The application of laboratory techniques to the control of product quality and process efficiency is included. *Prerequisite*: Junior standing.

CR EN 419—PHYSICAL CERAMICS—3 cr. (3 and 0)

This course is planned to acquaint the chemical, electrical, and mechanical engineers and the metallurgist with the refractory, electrical, corrosive, and abrasive characteristics of ceramic products. It emphasizes fundamental consideration of the structure of matter in the solid and glassy states, solid state reactions, and the influence of particle and aggregate structure to speed of reaction and product properties. The reasons for the properties of materials at elevated temperatures and room temperatures are related to these fundamentals. The course is intended to give engineers information that will help them design parts for high temperature applications such as in aircraft and nuclear plants, equipment that must withstand corrosion at elevated temperature or electronic equipment that must operate at elevated temperatures.

CR EN 420—PHYSICAL CERAMICS—3 cr. (3 and 0)

A continuation of Cr En 419 with emphasis on applications of fundamentals in nuclear reactors and nuclear power plants. Consideration is given to the development of ceramics for fuel elements, moderator materials, control rods, shielding and in radioactive waste disposal.

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

MR. MEENAGHAN, MR. ALLEY, MR. BARLAGE

ChE 202—INTRODUCTION TO CHEMICAL ENGINEERING—1 cr. (0 and 3)

A course designed to acquaint students with the profession of Chemical Engineering and to introduce them to certain basic concepts and methods used by the chemical engineer. Topics include the chemical engineering literature, graphical methods of presenting data, conversion of units, molecular units, temperature, pressure and other process variables. *Prerequisite*: Chem 104 (or 102) and Math 104.

ChE 203—INTRODUCTION TO CHEMICAL ENGINEERING—2 cr. (1 and 3)

A continuation of ChE 202. Topics to include the simple gas law, Van der Waals' equation, and compressibility factors; material balances; energy balances; and dimensional analysis. *Prerequisite*: ChE 202, Math 203, and Phys 211.

ChE 301—PRINCIPLES OF CHEMICAL ENGINEERING—3 cr. (3 and 0)

The general principles of Chemical Engineering and a study of the following unit operations: Fluid Flow, Fluid Transportation, Heat Transmission and Evaporation. Special emphasis is placed on theory and its practical application. This is accomplished through the presentation of comprehensive calculations. *Prerequisite*: ChE 203, Phys 211 and 212, Math 204 and junior standing.

ChE 302—PRINCIPLES OF CHEMICAL ENGINEERING—3 cr. (3 and 0)

The unit operations based on diffusion: Humidification and Air Conditioning, Extraction and Distillation. Special attention is given to theories involved and practical applications thereof. Theory is correlated with practice by the solution of comprehensive problems. *Prerequisite*: ChE 301 and junior standing.

ChE 306—UNIT OPERATIONS—1 cr. (0 and 3)

Laboratory work in the unit operations of fluid flow, heat transfer, and evaporation. Stress is laid on the relation between theory and experimental results and on report writing. *Prerequisite*: ChE 301 and junior standing.

ChE—330—CHEMICAL ENGINEERING THERMODYNAMICS — 2 cr. (2 and 0)

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)

The unit operations: Gas Absorption, Drying, Filtration, Crystallization, Mixing, Conveying, Size Reduction and Size Separation. Special emphasis is placed on theory and its practical application. Theory is related to practice by solution of comprehensive problems. *Prerequisite*: ChE 302, Chem 324 and 338; senior standing.

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)

Laboratory work for the diffusional unit operations. Competent technical reports are required. *Prerequisite*: Enrollment in ChE 401 and senior standing.

CHE 409—PLANT DESIGN—2 cr. (0 and 6)

A detailed study of the design of a chemical plant involving such factors as process to be employed, equipment selection, specification writing and cost accounting, and plant location. *Prerequisite*: ChE 401 and 430; senior standing.

CHE 411—CHEMICAL ENGINEERING LIBRARY MATERIALS—1 cr. (0 and 3)

The first semester of the senior thesis. Thesis projects are assigned. The student reviews the literature of the chosen field and writes the literature review section of his thesis. The use of the technical literature in the solution of chemical engineering problems is stressed. *Prerequisite*: Completion of all required 300 courses in chemistry and chemical engineering and senior standing.

CHE 412—THESIS—2 cr. (0 and 6)

The investigation of a research project in Chemical Engineering. A competent bachelor thesis is required. *Prerequisite*: ChE 401, 407, 411, 430 and senior standing.

CHE 415—INTRODUCTION TO NUCLEAR ENGINEERING—3 cr. (3 and 0)

Designed to acquaint the non-nuclear engineer with some of the engineering aspects of nuclear science. Topics include a brief survey of particle physics; nuclear reactions; energy transformations; nuclear reactors, their design, construction and use; radiation damage to materials of construction; and special problems in nuclear engineering peculiar to the basic engineering disciplines. *Prerequisite*: Senior standing.

CHE 416—INTRODUCTION TO NUCLEAR ENGINEERING—3 cr. (3 and 0)

A continuation of ChE 415; topics to include reactor principles, plu-

onium products, reactor types, materials of reactor construction, control instruments, and waste disposal. *Prerequisite*: ChE 415.

CHE 420—CORROSION—3 cr. (3 and 0)

The theory of corrosion, along with a detailed description of methods of preventing same. *Prerequisite*: Senior standing.

CHE 421—DIMENSIONAL ANALYSIS AND THE THEORY OF MODELS—2 cr. (2 and 0)

Dimensional analysis and model theory as applied to engineering problems. Topics include units and dimensions, the method of dimensional analysis, elimination of trial and error calculations, similarity, and the use of models. Problems in all branches of engineering will be considered.

CHE 422—INDUSTRIAL WASTE TREATMENT—2 cr. (2 and 0)

This course is designed to acquaint the student with the various types of industrial waste and the treatments required to prevent further pollution of our natural water resources.

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, Chem 338 and senior standing.

CHE 451—CHEMICAL ENGINEERING KINETICS—2 cr. (2 and 0)

An introduction to the kinetics of chemical reactions, fundamental principles of design and operation of chemical reactors. *Prerequisite*: ChE 430 or permission of instructor.

CHEMISTRY

MR. BROWNLEY

MR. CARODEMOS, MR. HOBSON, MR. HUNTER, MR. POLK, MR. SCHIRMER,
MR. DINWIDDIE, MR. HODGES, MR. LANDERS, MR. LINDSTROM,
MR. SALLEY, MR. TINGLE, MRS. SKELTON, MR. SUTTON

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 214—ANALYTICAL CHEMISTRY—5 cr. (3 and 6)

Covers the rudimentary principles of analytical chemistry. Topics include chemical equilibrium, the law of mass action, solution, solubility product and hydrolysis. Laboratory work includes both qualitative and quantitative experiments, with emphasis on volumetric, gravimetric and redox procedures. For Chemical Engineers only. *Prerequisite*: Chem 101, and 102 or 104.

CHEM 215—QUALITATIVE ANALYSIS—4 cr. (2 and 6)

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)

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)

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)

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

The fundamentals of organic chemistry which will aid the student of agriculture to understand the various biochemical reactions which are involved in the study of plant and animal nutrition. *Prerequisite*: Chem 101 and 102.

CHEM 310—AGRICULTURAL BIOCHEMISTRY—4 cr. (3 and 3)

A brief review of carbohydrate, fat and protein chemistry. The digestive action of the mouth, stomach and intestine is covered in detail. The chemical factors and theories relating to plant growth are discussed. The laboratory work consists of the analysis of natural products. *Prerequisite*: Chem 220.

CHEM 323—ELEMENTARY ORGANIC CHEMISTRY—4 cr. (3 and 3)

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)

Alicyclic, heterocyclic, and aromatic compounds are thoroughly studied. Typical members of these series of compounds are synthesized in the laboratory in which technique, purity and yield are stressed. *Prerequisite*: Chem 323.

CHEM 331—PHYSICAL CHEMISTRY—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)

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 402—INORGANIC CHEMISTRY—3 cr. (3 and 0)

A comprehensive survey of the field of inorganic chemistry through lectures and lecture experiments. Development of modern theories of atomic structure and valence, and a detailed study of the elements and their compounds, based on the periodic system and including both well known and rarer elements. *Prerequisite*: Chem 216. *Suggested*: Chem 331 and 332.

CHEM 411—INSTRUMENTAL ANALYSIS—3 cr. (1 and 6)

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)

Systematic identification of pure organic compounds and mixtures. *Prerequisite*: Chem 323 and 324.

CHEM 423—GENERAL BIOCHEMISTRY—3 cr. (3 and 0)

A review of the basic chemical characteristics of carbohydrates, fats, proteins and minerals used as foods. A study is also made of enzyme action and digestion as carried on in the mouth, stomach and small intestine as well as the metabolism and calorimetry of foods. The composition of the blood and urine is investigated, as well as the detoxification of some of the by-products of digestion. An introduction to the endocrine glands and their secretions as well as chemistry of vitamins are included in the course. *Prerequisite*: Organic and physical chemistry.

CHEM 424—GENERAL BIOCHEMISTRY—3 cr. (3 and 0)

A continuation of Chem 423.

CHEM 441—GLASS MANIPULATION—2 cr. (0 and 6)

A course designed to teach the fundamentals of glass manipulation and its application to the construction and repair of simple laboratory apparatus. *Prerequisite*: Senior standing.

CHEM 442—CHEMICAL LITERATURE—2 cr. (1 and 3)

This course is designed to give the student practice in the use of chemical literature, the writing of technical reports and the presentation of same before the faculty of the School of Chemistry. *Prerequisite*: Junior standing in Chemistry.

CHEM 443—RESEARCH PROBLEMS—3 cr. (0 and 9)

Original investigation of an assigned problem in a fundamental branch of Chemistry. This work must be carried out under the supervision of a qualified member of the staff. *Prerequisite*: Senior standing in Chemistry.

CHEM 444—RESEARCH PROBLEMS—3 cr. (0 and 9)

A continuation of Chem 443.

CHEM 450T—REVIEW OF GENERAL CHEMISTRY (I)—3 cr. (3 and 0)

A lecture course designed to deal, in a mature and comprehensive manner, with the basic principles generally presented in a general chemistry course. Emphasis will be placed upon the explanation of observed facts in terms of modern atomic and molecular structure.

CHEM 454—INORGANIC SYNTHESIS—2 cr. (0 and 6)

A laboratory course designed to acquaint the student with various methods and techniques employed in the preparation and handling of inorganic compounds. *Prerequisite*: Chem 401.

CHEM 472—ORGANIC SYNTHESIS—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 semimicro methods are used in the preparation of several organic compounds. *Prerequisite:* Chem 421.

CHEM 491—INTRODUCTION TO RADIOCHEMISTRY—3 cr. (2 and 3)

A study of the natural and synthetic radioisotopes, including the consideration of atomic and nuclear structure, properties of radiation and tracer techniques and their application. The laboratory is concerned with the methods of detection and measurement of the various types of radiation and the various applications of tracer techniques. *Prerequisite:* Senior or graduate standing and permission of instructor.

CHEM 503—INORGANIC CHEMISTRY—3 cr. (3 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 542—RADIOCHEMISTRY—3 cr. (3 and 0)

CHEM 550T—A REVIEW OF GENERAL CHEMISTRY (II)—3 cr. (2 and 3)

CHEM 551—CHEMISTRY SEMINAR—0 to 2 cr.

CHEM 552—CHEMISTRY SEMINAR—0 to 2 cr.

CHEM 591—RESEARCH—3 cr.

CHEM 592—RESEARCH—3 cr.

CIVIL ENGINEERING

MR. LOWRY

MR. TRIVELY, MR. FORD, MR. J. H. HUNTER, MR. MCCUTCHEN,
MR. ROSTRON, MR. MCCORMAC, MR. MOSS

CE 200—ELEMENTARY SURVEYING—2 cr. (1 and 3)

Field work and computations for simple surveys involving use of all basic surveying instruments. *Prerequisite:* Math 103.

CE 203—TOPOGRAPHIC SURVEYING AND MAPPING—1 cr. (0 and 3)

Field and office work necessary to make a complete topographic map, including contours of a prescribed area. For forestry students only. *Prerequisite:* Math 103, CE 200.

CE 205—CIVIL ENGINEERING PROBLEMS—1 cr. (0 and 3)

Applications of trigonometric functions and logarithms; graphs, tables, and the slide rule; systematic analysis of problems. *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 including solar and stellar observations. *Prerequisite*: CE 200, Math 103. (CE 301 taught in summer only.)

CE 305—ROUTE SURVEYING—3 cr. (2 and 3)

Special problems in connection with the location of a route for a railroad, highway, canal, sewer, water main or transmission line; theory of simple, compound and reversed curves; parabolic curves, transition, spiral, vertical curves, railroad turnouts; computations of earthwork. Field work includes a route survey for a highway. *Prerequisite*: Accompanied or preceded by CE 301. (CE 305 taught in summer only.)

CE 306—PRINCIPLES OF SANITATION—2 cr. (2 and 0)

Theory of sanitation and its relation to man's well-being; engineering techniques in the problems associated with milk, food, insects, rodents, sewage, water, etc. *Prerequisite*: Junior standing.

CE 307—ROADS AND PAVEMENTS—3 cr. (2 and 3)

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. *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)

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)

Fundamentals of mapping by use of aerial photographs; characteristics and uses of aerial photographs; detailed interpretation and simple photogrammetric instruments; 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—3 cr. (2 and 3)

Design of reinforced concrete beams, slabs, columns and footings. Designs and estimates of concrete structures. *Prerequisite*: Mech 304, 306 and senior standing.

CE 410—MUNICIPAL AND SANITARY ENGINEERING—3 cr. (2 and 3).

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)

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)

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)

Special problems confronting a city engineer; 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)

Business economy, cost determination, business law, and engineering procedures as related to the engineer. The major objective of this course

is 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)

Interpretation of specifications and plan reading necessary for the proper estimation of quantities of materials and costs of engineering structures. The course is presented from both the designer's and the constructor's viewpoint in order to fit the young engineer with the essential details an inspector or a construction engineer should have at his command. *Prerequisite*: Senior standing.

CE 452—ADVANCED STRUCTURAL ANALYSIS—2 cr. (2 and 0)

Various methods for computing the deflections of beams and trusses. *Prerequisite*: CE 310 and senior standing.

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. GOODALE

MR. KING, MR. BRANNON, MR. HURST, MR. JANZEN, MR. LAZAR,

MR. HENNINGSON

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 301—DAIRY TECHNOLOGY AND ENGINEERING—3 cr. (2 and 3)

Major subjects covered are physical and chemical properties of milk, power transmission, electrical power and equipment, hydraulics and pumping, heat measurement and control, steam and its use in the dairy,

principles of refrigeration, insulation and cold storage rooms, heaters and coolers, storage tanks, ice cream freezers, homogenizers, pasteurizers, concentrators, equipment maintenance, and plant design. *Prerequisite*: Junior standing.

DAIRY 304—JUDGING DAIRY PRODUCTS—2 cr. (1 and 3)

Flavor and physical qualities of ice cream, milk, cheese and butter are related to processing methods and market acceptance. A concept of quality is formed through examination of various grades of each product. Actual practice in taste panels illustrates their use in the food industry. *Prerequisite*: Junior standing.

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. (2 and 3)

Composition, procurement, processing, distribution, quality control, public health aspects, basis chemistry and bacteriology of industrial milk supplies and cultured products. *Prerequisite*: Dairy 201.

DAIRY 352—ADVERTISING AND MERCHANDISING—3 cr. (3 and 0)

General broad subjects covered are development of advertising, economics and functions of advertising, truth in advertising, research of product and market, channels of trade, comparison of advertising and personal selling, present-action and future-action advertising, the appeals, writing the copy, trade marks and slogans, illustrations, typography and printing, color, layouts, mediums, agencies, campaigns, testing, and dealer relations. *Prerequisite*: Junior standing.

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)

Artificial insemination as applied to cattle, sheep, and swine. Studies are made of semen collection and its subsequent evaluation and processing. Practical work includes artificial insemination practice and study of breeding cooperatives. Offered in alternate years. *Prerequisite*: Junior standing.

DAIRY 401—DAIRY PLANT MANAGEMENT—3 cr. (2 and 3)

The functions and operations and the application of business and factory management practices in the dairy plant. The course also in-

cludes the manufacture of creamery butter and the processing of soft cheeses. *Prerequisite*: Dairy 201 and 301.

DAIRY 402—DAIRY MANUFACTURES—4 cr. (3 and 3)

The principles and practice of the manufacture of ice cream and related dairy products, the principles of the manufacture of condensed and evaporated milks and milk powders, and the physical, chemical and biological factors involved. *Prerequisite*: Dairy 201 and 301.

DAIRY 403—ANIMAL NUTRITION—3 cr. (3 and 0)

A basic understanding of the chemistry and physiology of digestion and metabolism of carbohydrates, lipids, proteins, minerals and vitamins by farm animals. The effects of antibiotics and other additives are included. Maintenance, growth, reproduction and lactation are studied in relation to the physiological requirements. *Prerequisite*: Chem 220 and AH 301.

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—SEMINAR—2 cr. (2 and 0)

A continuation of Dairy 409 with emphasis on current research literature and research methods. *Prerequisite*: Senior standing.

DAIRY 452—DAIRY CATTLE FEEDING AND MANAGEMENT—3 cr. (2 and 3)

Fundamental principles in the care, feeding, and management of dairy cattle of all ages. Topics include general considerations in selecting a breed and the individual cow, calf raising, growth and development of dairy heifers, care and management of the milking herd and feeding for milk production. *Prerequisite*: Senior standing.

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 507—FERMENTED DAIRY PRODUCTS—3 cr. (2 and 3)

DAIRY 508—INDUSTRIAL DAIRY SCIENCE—3 cr. (3 and 0)

DAIRY 591—RESEARCH—3 cr.

DAIRY 592—RESEARCH—3 cr.

DRAWING AND DESIGN

MR. BRADBURY

MR. BANISTER, MR. ELLISON, MR. HAMMOND, MR. HUBBARD, MR. JAMESON,
MR. MCHUGH, MR. CARTER, MR. VON KAENEL, MR. STEWART

DD 101—FREEHAND DRAWING—1 cr. (0 and 3)

Principles of technical sketching, including the development of skills in technical lettering and freehand drawing.

DD 105—ENGINEERING DRAWING—2 cr. (0 and 6)

This course is to acquaint students of management with the engineering language in order to make more understandable the necessary communication which must occur between management and the engineering profession.

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 to develop 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)

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 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 gearing; 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. *Prerequisite*: DD 308, Mech 304 and senior standing. *Corequisite*: 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 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.

ECONOMICS

MR. EPTING

MR. BIGGS, MR. MACAULAY, MR. HILL, MR. WOOD, MISS BROWN,

MR. LOSCHKY, MR. WHITTEN

ECON 201—PRINCIPLES OF ECONOMICS—3 cr. (3 and 0)

The fundamental principles of production, distribution and consumption with special consideration of their relationships to business organizations and governmental regulations in our economy.

ECON 202—PRINCIPLES OF ECONOMICS—3 cr. (3 and 0)

Continuation of Econ 201 with emphasis on current economic problems. *Prerequisite*: Econ 201.

ECON 301—LABOR PROBLEMS—3 cr. (3 and 0)

The economics of the labor market, the problems of the industrial worker, and the methods of adjusting labor-management disputes. *Prerequisite*: Econ 201 and 202 or permission of the instructor.

ECON 302—MONEY AND BANKING—3 cr. (3 and 0)

Consideration of monetary systems, foreign exchange, credit instruments, and financial institutions; credit control, monetary stabilization, banking regulation and reform. *Prerequisite*: Econ 201 and 202.

ECON 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)

Elementary theory of accounts, accounting records and financial statements.

ECON 403—DEVELOPMENT OF ECONOMIC THOUGHT—3 cr. (3 and 0)

Considers writings of economists, the problems they faced and the solutions offered, and the role of their theories in present day economic theory. *Prerequisite*: Econ 201 and 202.

ECON 412—INTERNATIONAL TRADE—3 cr. (3 and 0)

The theory and practice of international trade, the balance of payments and methods of attaining international and domestic equilibrium, and international economic organizations. *Prerequisite*: Econ 201 and 202, or permission of the instructor.

EDUCATION

MR. BROCK, MR. STRIBLING, MR. WARE, MR. CASTLES

ED 201—PRINCIPLES OF EDUCATION—3 cr. (3 and 0)

A study of the basic principles and functions of the public schools, with emphasis on procedures used in South Carolina. It includes a brief history of the development of American public high schools, an analysis of the financial resources for their operation, and a survey of the more familiar patterns of organization. (Not open to students who have completed Ed 305.)

ED 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.)

ED 302—EDUCATIONAL PSYCHOLOGY—3 cr. (3 and 0)

Nature, capacities, equipment, growth and development of the learner; role of the environment; nature and promotion of learning; growth and maturity of personality; and evaluation of progress in education.

ED 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.)

ED 332—ORGANIZATION OF COURSES OF STUDY—3 cr. (3 and 0)

An analysis of the scope, functions and types of secondary school curriculums. Consideration is given to criteria for judging the secondary school curriculum and ways of improving existing programs.

ED 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.)

ED 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.)

ED 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.)

ED 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.)

ED 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.)

ED 386—HEALTH EDUCATION IN THE ELEMENTARY SCHOOLS—3 cr. (3 and 0)

This course is designed to acquaint prospective teachers of elementary school pupils with healthful attitudes and practices which are basic to effective living, such as those in nutrition, personal cleanliness, clothing, housing, food conservation, and individual growth. Special emphasis will be placed on a program of healthful living for the child, at home and at school. (This course is required of all candidates for certification in elementary education.) (Offered in Summer Session only.)

ED 387—REMEDIAL READING—3 cr. (3 and 0)

This course covers means and methods of determining the reading level

of the individual; methods of instruction for increasing reading ability, and materials of instruction that will aid in helping the individual attempt to reach his maximum level. (Offered in Summer Session only.)

ED 412—DIRECTED TEACHING IN HIGH SCHOOL SUBJECTS—6 cr. (1 and 15)

A program of supervised observation and teaching in cooperation with selected public schools in which opportunities are provided for prospective teachers to secure experience in their chosen areas of instruction. (Enrollment is subject to individual approval of instructor in charge and is limited to seniors or graduate students who have completed prerequisite courses.)

ED 424—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.

ED 453—CHILD GROWTH AND DEVELOPMENT—3 cr. (3 and 0)

Child growth and development as related to the problems of teaching, cultural factors in development, physical and mental growth, behavior, growth of meanings, play emotions, character development and personality, learning and the educative process including readings, discussions and special reports. (Offered in Summer Session only.)

ED 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.)

ED 458—HEALTH EDUCATION—3 cr. (3 and 0)

A study of the information needed for effective cooperation with parents, physicians and public health agencies in the promotion and improvement of community health. Included are problems of personal hygiene, health records, immunization and control of communicable disease.

ED 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.)

ED 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 rehabili-

tation of children who are handicapped. Special consideration will be given to curriculum development for children who have crippling conditions or who fall into the category of the educable mentally retarded. (Offered in Summer Session only.)

ED 469—THE NATURE OF MENTAL RETARDATION—3 cr. (3 and 0)

A study of the educational and psychological research relating to the characteristics and needs of the mentally retarded child. (Offered in Summer Session only.)

ED 470—METHODS AND MATERIALS OF TEACHING THE MENTALLY HANDICAPPED—3 cr. (3 and 0)

Designed to prepare teachers for planning curricula for the mentally handicapped in light of student needs and in terms of community resources. (Offered in Summer Session only.)

ED 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.)

ED 497—AUDIO-VISUAL AIDS IN EDUCATION—3 cr. (3 and 0)

The purpose of this course is to provide opportunities for study and use of educational films, film strips, photographs, charts, maps and recordings as aids to effective teaching.

ED 503—ADVANCED METHODS IN TEACHING—3 cr. (3 and 0)

ED 505—OCCUPATIONAL GUIDANCE AND PLACEMENT—3 cr. (3 and 0)

ED 506—HISTORY AND PHILOSOPHY OF EDUCATION—3 cr (3 and 0)

ED 508—EDUCATIONAL TESTS AND MEASUREMENTS—3 cr. (3 and 0)

ED 509—ANALYSIS OF THE INDIVIDUAL—3 cr. (3 and 0)

ED 510—TECHNIQUES OF COUNSELLING—3 cr. (3 and 0)

ED 511—PUBLIC SCHOOL ADMINISTRATION (FINANCE)—3 cr. (3 and 0)

ED 513—EDUCATIONAL AND OCCUPATIONAL INFORMATION — 3 cr. (3 and 0)

ED 518—ORGANIZATION AND ADMINISTRATION OF ELEMENTARY SCHOOL—3 cr. (3 and 0) (Offered in Summer Session only.)

ED 530—TECHNIQUES OF SUPERVISION—THE PUBLIC SCHOOLS—3 cr. (3 and 0) (Offered in Summer Session only.)

ED 531—PUBLIC SCHOOL EVALUATION—3 cr. (3 and 0) (Offered in Summer Session only.)

ED 591—INTRODUCTION TO RESEARCH IN EDUCATION—3 cr.

ED 594—RESEARCH IN EDUCATION—3 cr.

ELECTRICAL ENGINEERING

MR. THURSTON

*MR. ADAMS, MR. CREAGER, MR. BALL, MR. BOVELL, MR. BROYLES,
MR. GOODIN, *MR. LONG, MR. MARTIN, MR. POE, MR. BRYANT,
MR. BUTLER, MR. KERSEY, MR. MCCOMBS, MR. ROCHESTER

EE 214—ELECTRIC CIRCUITS AND FIELDS—3 cr. (3 and 0)

The fundamental theory of electric and magnetic circuits and fields. *Prerequisite*: Math 204, Phys 214 and 216 or enrollment in Math 204, Phys 214, 216.

EE 303—BASIC ELECTRICITY—4 cr. (3 and 3)

Electric and magnetic circuits, machinery, vector algebra as applied to alternating current circuits, 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)

Circuits, electromagnetics, D.C. and A.C. machinery, vector representation of alternating currents, measurement of power, with examples from industry to illustrate the theory. Planned for students in Agricultural Engineering and Civil Engineering. *Prerequisite*: Math 204, Phys 212 and 214.

EE 307—BASIC ELECTRICAL ENGINEERING—3 cr. (3 and 0)

Electrical engineering for students who need a sound background in the subject, but who are not planning to specialize in this field. The first term includes a study of D.C. and A.C. circuits, magnetic phenomena, and principles of electrical machinery. *Prerequisite*: Math 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 312—ELECTRICAL MACHINERY I—3 cr. (3 and 0)

A comprehensive study of the theory, construction, and operating characteristics of rotating machines and transformers. *Prerequisite*: EE 315 and enrollment in EE 316; junior standing.

*On leave.

EE 313—BASIC ELECTRICAL MEASUREMENTS—2 cr. (2 and 0)

Principles of electrical measurements. Study of various types of indicating instruments with emphasis upon precision of measurement and minimizing the effects of unavoidable errors. *Prerequisite:* EE 214 and junior standing.

EE 314—ELECTRICAL MACHINERY I LABORATORY—1 cr. (0 and 3)

A laboratory course designed to accompany EE 312. *Prerequisite:* Enrollment in EE 312 and junior standing.

EE 315—ALTERNATING-CURRENT CIRCUITS—4 cr. (3 and 3)

A comprehensive study of alternating-current fundamentals. Use of the complex algebra method for the solution of circuit problems. One three-hour calculation period is provided each week. *Prerequisite:* EE 214 and junior standing.

EE 316—ALTERNATING-CURRENT CIRCUITS—3 cr. (3 and 0)

A continuation of EE 315 including the solution of problems involving nonsinusoidal currents and coupled circuits. *Prerequisite:* EE 315 and junior standing.

EE 317—MEASUREMENTS LABORATORY—1 cr. (0 and 3)

A laboratory course designed to accompany EE 313. *Prerequisite:* Enrollment in EE 313 and junior standing.

EE 320—ELECTRONICS I—3 cr. (3 and 0)

Electron tubes and circuits. Embraces electron dynamics, thermionic emission, vacuum and gas-filled tubes, photosensitive devices, cathode-ray tubes, rectifier circuits, and solid-state electronics. *Prerequisite:* EE 308, EE 310, or enrollment in EE 316 and EE 322, and junior standing.

EE 321—PRINCIPLES OF ILLUMINATION—3 cr. (3 and 0)

An elective course planned to acquaint engineering and architecture students with the basic principles of illumination, and to give them some experience in the design and layout of lighting installations. *Prerequisite:* Phys 202 and Phys 204, or equivalent; junior standing.

EE 322—ELECTRONICS I LABORATORY—1 cr. (0 and 3)

A laboratory course designed to accompany EE 320. *Prerequisite:* Enrollment in EE 320.

EE 401—SEMINAR—1 cr. (1 and 0)

Discussions on topics from current scientific periodicals and on research and developments in industry. A library research paper is prepared as part of the course work. *Prerequisite:* Senior standing.

EE 402—ENGINEERING ANALYSIS—1 cr. (0 and 3)

The application of engineering principles and methods to the study of typical problems that arise in the various fields of electrical engineering. *Prerequisite:* EE 401.

EE 407—ELECTRONICS II—3 cr. (3 and 0)

A continuation of EE 320, including applications to industrial electronics and communications. *Prerequisite:* EE 320, EE 322, enrollment in EE 409 and senior standing.

EE 409—ELECTRONICS II LABORATORY—1 cr. (0 and 3)

A laboratory course designed to accompany EE 407. *Prerequisite:* Enrollment in EE 407.

EE 410—TRANSIENTS AND SERVOMECHANISMS—3 cr. (3 and 0)

Application of the Laplace transform method to the analysis of linear systems, including servomechanisms. *Prerequisite:* EE 415, EE 417, EE 419 and senior standing.

EE 415—ADVANCED CIRCUITS—3 cr. (3 and 0)

A continuation of EE 316, including studies of the complex Fourier series, Fourier integral, Laplace transform, and four-terminal network theory. Electro-magnetic field theory is introduced in the last half of the course. *Prerequisite:* EE 316 and senior standing.

EE 417—ELECTRICAL MACHINERY II—3 cr (3 and 0)

A continuation of EE 312. *Prerequisite:* EE 312 and enrollment in EE 419.

EE 419—ELECTRICAL MACHINERY II LABORATORY—1 cr. (0 and 3)

A laboratory course designed to accompany EE 417. *Prerequisite:* Enrollment in EE 417.

EE 420—POWER SYSTEM ANALYSIS—3 cr. (3 and 0)

Studies of transmission lines using lumped and distributed constants. Symmetrical components and their use in system fault calculations. Introductory theory of power system stability. *Prerequisite:* Enrollment in or credit for EE 417.

EE 427—ADVANCED A-C MACHINERY—3 cr. (3 and 0)

Supplementary to EE 312 and EE 417 and covering special and more complex features of rotating machinery and control drive systems. *Prerequisite:* EE 312 and EE 417.

EE 431—RADIO COMMUNICATION—3 cr. (3 and 0)

Application of electron-tube and solid-state devices to the communications field. Power amplifiers, modulation, transmitting and receiving system, etc. *Prerequisite:* EE 407, EE 409, and concurrent registration in EE 433.

EE 433—RADIO COMMUNICATION LABORATORY—1 cr. (0 and 3)

A laboratory course designed to accompany EE 431. *Prerequisite:* Concurrent registration in EE 431.

EE 434—INDUSTRIAL ELECTRONICS—2 cr. (2 and 0)

The theory and application of electronics to industrial control equipment. Includes fundamentals of servomechanisms, speed and voltage

regulators, power rectifiers, etc. Planned for students not majoring in electrical engineering. *Prerequisite*: EE 308 and EE 310, or EE 320 and EE 322; enrollment in EE 438.

EE 436—RADIATION AND WAVE PROPAGATION—3 cr. (3 and 0)

Electromagnetic fields, vector analysis, Maxwell's equations, wave guides, and radiation. *Prerequisite*: EE 407, EE 409, and EE 415.

EE 438—INDUSTRIAL ELECTRONICS LABORATORY—1 cr. (0 and 3)

A laboratory course designed to accompany EE 434. *Prerequisite*: enrollment in EE 434.

EE 501—TRANSIENTS IN LINEAR SYSTEMS—3 cr. (3 and 0)

EE 513—POWER SYSTEM STABILITY—3 cr. (3 and 0)

EE 520—ADVANCED ELECTRONIC CIRCUITS—4 cr. (3 and 3)

EE 521—RADIATION AND WAVE PROPAGATION—3 cr. (3 and 0)

EE 525—TRANSISTOR THEORY AND APPLICATIONS—3 cr. (3 and 0)

EE 530—PULSE TECHNIQUES—4 cr. (3 and 3)

EE 591—RESEARCH—3 cr.

EE 592—RESEARCH—3 cr.

ENGINEERING MECHANICS

*MR. CURTIS

MR. MOORMAN, MR. BYARS, MR. NOWACK, MR. LUCAS, MR. ULDRICK,
MR. COOPER, MR. SNYDER

MECH 302—ENGINEERING MECHANICS (STATICS)—3 cr. (3 and 0)

Forces and force systems and their external effects on bodies; principally the condition of equilibrium. The concept of free body analysis is emphasized as an analytical tool. Special topics include centroids and moments of inertia. *Prerequisite*: Phys 211, concurrent registration in Math 204.

MECH 303—ENGINEERING MECHANICS (DYNAMICS)—3 cr. (3 and 0)

A continuation of Mech 302. The two principal topics are kinematics and the effects of force systems in producing accelerated motion of particles and bodies of finite size. Emphasis is placed on the fundamental laws of motion and analytical techniques in their application to engineering problems. *Prerequisite*: Mech 302 and Math 204.

MECH 304—MECHANICS OF MATERIALS—3 cr. (3 and 0)

The relationships between external loads on solid bodies or members and the resulting internal effects and dimension changes, including the derivation of rational formulas for stresses and deformations and the identification and use of important physical properties of engineering materials. *Prerequisite*: Mech 302 and Math 204.

*On leave.

MECH 305—MECHANICS OF MATERIALS LABORATORY—1 cr. (0 and 3)

Theoretical relationships considered in Mech 304 are verified. Students observe the behavior under load and the failure of engineering materials; identify and evaluate physical properties of materials important to design and manufacturing processes; and are acquainted with various testing methods, testing machines, and instruments. *Prerequisite*: Must be accompanied or preceded by Mech 304.

MECH 401—FLUID MECHANICS—3 cr. (3 and 0)

A fundamental study of the behavior of fluids at rest or in motion. Emphasis is placed upon a rational, analytical approach from which are developed basic principles of broad applicability to all fields of engineering. *Prerequisite*: Mech 303.

MECH 403—FLUID MECHANICS LABORATORY—1 cr. (0 and 3)

The principles developed in Mech 401 are verified and demonstrated. Familiarization with orderly techniques in organizing and reporting results of experimental investigations and with the use of instruments and equipment is afforded. *Prerequisite*: Must be accompanied or preceded by Mech 401.

MECH 450—MECHANICAL VIBRATIONS—3 cr. (3 and 0)

Basic theory of mechanical vibrations with applications to problems including those of free vibrations with and without damping; forced vibrations, systems of one, two, and many degrees of freedom. *Prerequisite*: Mech 303, 304 and Math 306.

MECH 460—HYDROLOGY—2 or 3 cr. (2 or 3 and 0)

The principles concerning the occurrence of natural water and engineering practices in dealing with it in the design of facilities for water supply, flood control, power development, and other purposes. *Prerequisite*: Mech 401 and approval of 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 problems, including: the hydraulic jump, backwater curves, bends, transitions and obstructions, and special methods of flood routing. *Prerequisite*: Mech 401 and approval of instructor.

MECH 470—EXPERIMENTAL STRESS ANALYSIS—3 cr. (2 and 3)

Experimental analysis of stress fields and determination of maximum principal stresses in deformable bodies. Emphasis is on the theoretical consideration in the reduction of data as well as the obtaining of data. Methods studied include photoelasticity, electrical resistance strain gages, brittle lacquer, and birefringent coatings. *Prerequisite*: Mech 304 and permission of instructor.

MECH 501—EXPERIMENTAL STRESS ANALYSIS-ADV.—3 cr. (2 and 3)

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.

ENGLISH

*Mr. COX

MR. C. B. GREEN, MR. J. C. GREEN, MR. LANE, MR. MACINTOSH,
MR. OWINGS, MR. BAIR, MR. FELDER, MR. HOLT, MR. MCGEE,
MR. PURSER, MR. WATSON, MR. WILSON, MR. WINTER,
MR. ABEL, MR. CASKEY, MR. GARBATY, MR. LONGSHORE,
MR. ELLIOTT, MR. HENRY, MRS. HILL, MR. PEAKE,
MR. STEADMAN, MR. SULLIVAN, MR. TUTTLETON

ENGL 100—REMEDIAL ENGLISH—Non-credit (3 and 0)

For students failing the placement test; a review of grammar, punctuation, and sentence structure with drill in general correctness.

ENGL 101—ENGLISH COMPOSITION—3 cr. (3 and 0)

Training 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)

Continued emphasis on correct and effective expression; training in the organization and writing of various types of expository and semi-technical papers, including the research report. *Prerequisite*: Engl 101.

ENGL 203—A SURVEY OF ENGLISH LITERATURE—3 cr. (3 and 0)

Chief British authors and works from Beowulf to the end of the eighteenth century; continued emphasis on composition. *Prerequisite*: Engl 102.

ENGL 204—A SURVEY OF ENGLISH LITERATURE—3 cr. (3 and 0)

Chief British authors and works from the beginning of the nineteenth

*On leave.

century to the present time. Proficiency in composition must be demonstrated. *Prerequisite*: Engl 203.

ENGL 300—ENGLISH AT WORK—1 cr. (1 and 0)

Responsibilities and duties of students editing uncensored publications; criticism of student publications; visiting speakers; review of English fundamentals. Open to members of publication staffs and to others by permission of instructor. Fall term only; offered only if requested by twenty students. *Prerequisite*: Engl 102.

ENGL 301—PUBLIC SPEAKING—3 cr. (3 and 0)

Practical training in public speaking; attention to diction, voice, and platform presence; an introduction to parliamentary procedure; practice in writing and delivering short speeches. *Prerequisite*: Engl 203 and 204.

ENGL 351—CHILDREN'S LITERATURE—3 cr. (3 and 0)

Wide reading in prose and verse suitable for children. (Summer School only.)

ENGL 401—ADVANCED COMPOSITION—3 cr. (3 and 0)

Supervised writing for students of advanced standing; a laboratory, following basic types of writing, with each student undertaking projects according to his interests; some attention to reports, business letters, research methods and materials. Weekly papers and some longer exercises. Limited enrollment. *Prerequisite*: Engl 203 and 204.

ENGL 405—SHAKESPEARE—3 cr. (3 and 0)

A selective study of Shakespeare's plays with attention to his development as a dramatist. *Prerequisite*: Engl 203 and 204.

ENGL 406—SHAKESPEARE—3 cr. (3 and 0)

A continuation of English 405. *Prerequisite*: Engl 203 and 204.

ENGL 409—CHAUCER—3 cr. (3 and 0)

Chaucer as an artist; the "Prologue" for historical and linguistic orientation; "The Canterbury Tales," "House of Fame," "Parliament of Fowls," and "Troilus and Criseyde" as art forms. *Prerequisite*: Engl 203 and 204.

ENGL 415—INTRODUCTION TO DRAMA—3 cr. (3 and 0)

Principles and progress of drama from Aeschylus to Ibsen; analysis of representative plays; critical reports; classroom reading of great scenes. *Prerequisite*: Engl 203 and 204.

ENGL 416—INTRODUCTION TO DRAMA—3 cr. (3 and 0)

Principles and progress of drama from Ibsen to the present; analysis of representative plays; critical reports; classroom reading of great

scenes; discussion of important aspects of modern drama. *Prerequisite:* Engl 203 and 204.

ENGL 423—A SURVEY OF AMERICAN LITERATURE—3 cr. (3 and 0)

The colonial period to the Civil War, with emphasis on major authors. *Prerequisite:* Engl 203 and 204.

ENGL 424—A SURVEY OF AMERICAN LITERATURE—3 cr. (3 and 0)

From the Civil War to the present, with emphasis upon major authors. *Prerequisite:* Engl 203 and 204.

ENGL 425—THE ROMANTICS—3 cr. (3 and 0)

The eighteenth-century forerunners of Romanticism; Wordsworth, Coleridge, Byron, Shelley, Keats; the essayists. *Prerequisite:* Engl 203 and 204.

ENGL 427—VICTORIAN LITERATURE—3 cr. (3 and 0)

Representative works from the prose and poetry of Victorian writers; consideration of English intellectual, social, and political life of the period. *Prerequisite:* Engl 203 and 204.

ENGL 429—THE ENGLISH NOVEL—3 cr. (3 and 0)

Major English novelists from Defoe to Scott. *Prerequisite:* Engl 203 and 204.

ENGL 430—THE ENGLISH NOVEL—3 cr. (3 and 0)

A continuation of English 429, with emphasis upon English Victorian novelists. *Prerequisite:* Engl 203 and 204.

ENGL 431—THE RESTORATION AND EIGHTEENTH CENTURY—3 cr. (3 and 0)

Readings in Dryden, Swift, Pope, and Dr. Johnson. *Prerequisite:* Engl 203 and 204.

ENGL 433—CONTEMPORARY BRITISH LITERATURE—3 cr. (3 and 0)

British novelists, poets, and essayists of the twentieth century. *Prerequisite:* Engl 203 and 204.

ENGL 434—CONTEMPORARY AMERICAN LITERATURE—3 cr. (3 and 0)

American writers from Mark Twain to Faulkner and Hemingway. *Prerequisite:* Engl 203 and 204.

ENGL 435—SOUTHERN LITERATURE—3 cr. (3 and 0)

The intellectual and literary achievement of the South from 1607 to the present, with emphasis upon the writers of the nineteenth century. *Prerequisite:* Engl 203 and 204.

ENGL 503—SEMINAR IN AMERICAN LITERATURE—3 cr. (3 and 0)

ENGL 504—SEMINAR IN AMERICAN LITERATURE—3 cr. (3 and 0)

ENTOMOLOGY

MR. COCHRAN

MR. KING, MR. REED, MR. ADKINS, MR. FOX, MR. SWIFT, MR. O'BRIEN

ENT 301—ELEMENTARY AND ECONOMIC ENTOMOLOGY—3 cr. (2 and 3)

A general introduction to Entomology with emphasis on anatomy, metamorphosis, life-histories of our most important species and methods of control. *Prerequisite*: Zool 101 and 103.

ENT 305—ECONOMIC ENTOMOLOGY—3 cr. (2 and 3)

Identification and life-histories of injurious insects, their damage, and control measures. Common pests of the following are studied: cotton, corn, small grains, legume field crops, tobacco, sugar cane, stored grain and seed, livestock and man. *Prerequisite*: Zool 101, 103 and Ent 301.

ENT 306—ECONOMIC ENTOMOLOGY—3 cr. (2 and 3)

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 307—FOREST ENTOMOLOGY—3 cr. (2 and 3)

Insects of economic importance to forests, forest products and shade trees, and their role in the practice of good forest management as well as their significance in the natural environment.

ENT 405—INSECT MORPHOLOGY—3 cr. (2 and 3)

A detailed study of external and internal anatomy of insects. *Prerequisite*: Ent 301 and 408.

ENT 406—BEEKEEPING—3 cr. (2 and 3)

Practical beekeeping methods. Each student 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 408—GENERAL AND TAXONOMIC ENTOMOLOGY—5 cr. (3 and 6)

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 455—MEDICAL AND VETERINARY ENTOMOLOGY—3 cr. (2 and 3)

Insects and their arthropoid relatives which are of considerable economic importance in their effect on man and animals.

ENT 461—SEMINAR—1 cr. (1 and 0)

Students review the principal journals pertaining to insects and related animals; also review the lives and activities of prominent pioneer entomologists. *Prerequisite*: Zool 101, 103 and 301; Ent 301 and 408.

ENT 462—SEMINAR—1 cr. (1 and 0)

Students review the principal journals pertaining to insects and related animals; also review the lives and activities of prominent pioneer entomologists. *Prerequisite*: Zool 101, 103 and 301; Ent 301 and 408.

ENT 468—INTRODUCTION TO RESEARCH—2 cr. (1 and 3)

Principles, developments and changes in research methods related to certain fields of agricultural research. The students obtain practice in experimental techniques, scientific writing and the use and maintenance of various research instruments and equipment.

ENT 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 590—RESEARCH TECHNIQUES IN AGRICULTURE—3 cr. (2 and 3)

ENT 591—RESEARCH—3 cr.

ENT 592—RESEARCH—3 cr.

FORESTRY

MR. LEHOTSKY

MR. BRUNER, MR. COOL, MR. SHIPMAN

FOR 201—INTRODUCTION TO FORESTRY—1 cr. (1 and 0)

An informative sketch of forestry, forests, and forestry tasks of the Nation; education in career opportunities of foresters. *Prerequisite*: Bot 101.

FOR 202—DENDROLOGY—4 cr. (3 and 3)

Identification and nomenclature of the principal forest trees of the United States; their geographical distribution and economic importance; identification of many forest shrubs and commonly planted exotics. *Prerequisite*: Bot 101.

FOR 203—SILVICS—2 cr. (2 and 0)

Growth factors influencing the establishment and development of forest trees and stands. *Prerequisite*: Bot 101, Chem 102.

FOR 205—FARM FORESTRY—3 cr. (2 and 3)

A compendium of forestry subjects forming a foundation for the management and utilization of farm forests and especially those of South Carolina. *Prerequisite*: Bot 101.

FOR 250—SUMMER CAMP—9 cr.

Nine weeks of field forestry practices. *Prerequisite*: DD 105, Math 104, CE 200.

FOR 301—AERIAL FOREST MAPPING—3 cr. (2 and 3)

Use of aerial photographs in forestry; elementary photographic measurements; aerial photo interpretation; mapping and timber estimating procedures. *Prerequisite*: CE 203 and For 250.

FOR 302—FOREST MENSURATION—3 cr. (2 and 3)

Volume determination of trees, logs, and stands; statistical procedures applied to forest measurements. *Prerequisite*: Ag Ec 401 and For 250.

FOR 303—SILVICULTURE—4 cr. (3 and 3)

Maintenance, harvesting, natural and artificial regeneration of forest stands based on the inter-relation of biotic characteristics of stands and their environments. *Prerequisite*: For 203 and For 250 or permission of instructor.

FOR 304—FOREST PATHOLOGY—3 cr. (2 and 3)

Symptoms and causative agents of forest tree diseases; their prevention and control; their relation to silviculture, management, and utilization of forests. *Prerequisite*: Bot 101.

FOR 305—WOOD TECHNOLOGY—1 cr. (0 and 3)

Macroscopic and microscopic identification, properties, and uses of selected economically significant timbers. *Prerequisite*: Bot 101, Chem 102.

FOR 401—FOREST ECONOMICS—2 cr. (2 and 0)

Economic problems and principles involved in the utilization of forest land and timber and in the distribution of forest products; cost analysis of integrated forest operations. *Prerequisite*: Econ 201.

FOR 402—LOGGING AND MILLING—4 cr. (2 and 6)

Logging and milling methods and costs, their administration; analysis of logging and milling operations; seasoning, grading, and marketing of lumber. *Prerequisite*: Senior standing.

FOR 403—FOREST PRODUCTS—3 cr. (2 and 3)

Primary forest products other than sawlogs, e.g., poles, pulpwood, veneer stock, excelsior; secondary forest products, e.g., naval stores, maple syrup, Christmas trees; utilization and marketing of forest products. *Prerequisite*: Senior standing.

FOR 404—MANAGEMENT PLANS—1 cr. (0 and 3)

Analysis and assembling of factors entering into a forest working plan; drawing of maps corollary to forest regulation; preparation of management plans. *Prerequisite*: For 407.

FOR 405—FOREST PROTECTION—2 cr. (2 and 0)

Causative and control factors of forest fires; fire prevention and suppression. Protection of forest resources against damages caused by man and animals. *Prerequisite*: Senior standing.

FOR 406—FOREST POLICY AND ADMINISTRATION—3 cr. (3 and 0)

Development of public and private forest policy in the United States; administrative and executive tasks in forestry; principles of organization, personnel management, and budget. *Prerequisite*: Econ 201.

FOR 407—FOREST REGULATION—4 cr. (3 and 3)

Correlation of production factors and yields of forests; normal and empirical forests; rotations and cutting cycles; regulation of cuts and growing stock in sustained yield management. *Prerequisite*: For 302, 303.

FOR 408—FOREST VALUATION—3 cr. (3 and 0)

Capital investments in forestry and the returns derivable from them; valuation of land, timber, and other resources associated with forestry; appraisal of damage and stumpage values. *Prerequisite*: For 407.

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)

The geographic conditions fundamental to the world's resources — agricultural, mineral, commercial and industrial, and the conditions which affect their production, exchange, consumption and strategic significance. *Prerequisite*: Junior standing.

GEOG 302—POLITICAL GEOGRAPHY—3 cr. (3 and 0)

The geographical pattern of the major nations, empires, dominions, commonwealths and other dependencies, their boundaries, resources and strategic connections. The current principles of geopolitics, with their application to the United States, Europe and Asia will be examined. *Prerequisite*: Junior standing.

GEOLOGY AND MINERALOGY

MR. BROWN, MR. TINGLE

GEOL 201—AGRICULTURAL GEOLOGY—3 cr. (2 and 3)

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.

GEOL 450T—EARTH SCIENCE (I)—3 cr. (2 and 3)

A study of the earth, its origin and subsequent development. The evolution of continents and ocean basins and the development of life on earth in all its forms; theories of the internal constitution of the earth and the materials and structures of the crust, as determined from geologic principles. Laboratory exercises and field trips are designed to familiarize the student with earth materials, fossils and physical concepts.

GEOL 550T—EARTH SCIENCE (II)—3 cr. (2 and 3)**GERMAN**

MR. COOK

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. LAMBERT, MR. TUTTLE, MR. CARPENTER, MISS BROWN

GOV 101—AMERICAN NATIONAL GOVERNMENT—3 cr. (3 and 0)

The principles, structure and functions of the national government of the United States. Not open to juniors and seniors.

Gov 301—AMERICAN GOVERNMENT AND POLITICAL PARTIES—3 cr. (3 and 0)

The constitution; powers and functions of executive, legislative and judicial branches; citizenship; expansion of governmental activities. A study of the nature, development, organization and methods of political parties, and the conduct of elections. *Prerequisite*: Not open to those who have completed Gov 101.

Gov 302—STATE AND LOCAL GOVERNMENT—3 cr. (3 and 0)

The American state and local government structural features and functions, and their legislative, administrative and judicial processes.

Gov 401—COMPARATIVE GOVERNMENT—3 cr. (3 and 0)

Political institutions of Great Britain, Russia, France, Italy, Germany, Canada and Argentina. *Prerequisite*: Junior standing.

Gov 403—INTERNATIONAL RELATIONS—3 cr. (3 and 0)

To acquaint the student with current world movements and conditions, so that he may be able to think intelligently on the problems confronting our nation. *Prerequisite*: Senior standing.

HISTORY

MR. EPTING

MR. BOLEN, MR. LANDER, MR. WILLIAMS, MR. LAMBERT, MR. TUTTLE,
MRS. RINGOLD, MR. CARPENTER, MRS. DAVIS

HIST 101—AMERICAN HISTORY—3 cr. (3 and 0)

The political, economic and social development of the American people from the period of discovery to the end of the Civil War.

HIST 102—AMERICAN HISTORY—3 cr. (3 and 0)

The political, economic and social development of the American people from the end of the Civil War to the present.

HIST 104—WESTERN CIVILIZATION—3 cr. (3 and 0)

A survey of the history of the modern world and the forces which have shaped its political, economic, and social institutions.

HIST 301—HISTORY OF THE UNITED STATES SINCE 1865—3 cr. (3 and 0)

An advanced study of the political, social, and economic development of the United States since the end of the Civil War. *Prerequisite*: Junior standing. Not open to students who have completed Hist 102.

HIST 303—HISTORY OF CIVILIZATION—3 cr. (3 and 0)

The political, economic and social movements of Western Civilization from ancient times to 1660. *Prerequisite*: Junior standing or permission of instructor.

HIST 304—HISTORY OF CIVILIZATION—3 cr. (3 and 0)

The political, economic and social movements of Western Civilization

from 1660 to the present. *Prerequisite*: Junior standing or permission of instructor.

HIST 306—AMERICAN BIOGRAPHY—3 cr. (3 and 0)

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)

England and her people. *Prerequisite*: Junior standing.

HIST 310—HISTORY OF COLONIAL AMERICA—3 cr. (3 and 0)

The development of American institutions and customs in the period before 1776. British-American relations are stressed and some attention given to comparisons of government, economics, and cultural institutions among the several colonies. *Prerequisite*: Junior standing.

HIST 315—CONSTITUTIONAL HISTORY OF THE U. S.—3 cr. (3 and 0)

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)

The political, economic and social development of South Carolina from 1670 up to the present. *Prerequisite*: Junior standing.

HIST 403—HISTORY OF THE SOUTH TO 1865—3 cr. (3 and 0)

The geography and climate of the South and the origins and development of political, economic, and cultural institutions. *Prerequisite*: Junior standing.

HIST 404—HISTORY OF THE SOUTH SINCE 1865—3 cr. (3 and 0)

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)

American expansion westward from the original colonies. *Prerequisite*: Junior standing.

HIST 406—HISTORY OF MANUFACTURING IN THE UNITED STATES—3 cr. (3 and 0)

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. *Prerequisite*: Junior standing.

HIST 408—EUROPE SINCE 1914—3 cr. (3 and 0)

History of Europe since the beginning of World War I. *Prerequisite*: Junior standing.

HIST 409—AN INTRODUCTION TO HISTORICAL RESEARCH—2 cr. (1 and 3)

This course, open only to students concentrating in History, consists of lectures in historiography and bibliography and the writing of a term essay under the supervision of one or more departmental advisers. *Prerequisite*: Junior standing.

HIST 501—SEMINAR IN SOUTH CAROLINA HISTORY—3 cr. (3 and 0)**HORTICULTURE**

MR. HAGLER

MR. OGLE, MR. SEFICK, MR. SENN, MR. THODE, MR. VAN BLARICOM

HORT 201—GENERAL HORTICULTURE—3 cr. (2 and 3)

A working knowledge of the fundamental plant processes is developed, showing the influence of light, temperature, water and nutrients upon vegetative growth and reproduction of horticultural plants. Production practices, harvesting, storage and marketing of the principal fruit, vegetable and ornamental crops are discussed with demonstrations and practice in greenhouse and orchard. *Prerequisite*: Bot 101 and Chem 101.

HORT 302—PRINCIPLES OF VEGETABLE PRODUCTION—3 cr. (2 and 3)

The general principles of vegetable growing and handling. Phases receiving special emphasis are: economic importance, producing areas, management practices, plant forcing, cultural practices, irrigation, quality factors, harvesting, grading, packing, storage, market inspection, transportation, refrigeration, exhibition and seed production. *Prerequisite*: Hort 201.

HORT 305—PLANT PROPAGATION—3 cr. (2 and 3)

Methods of propagation; time, manner and material for making cuttings; temperature and media for rooting cuttings or ornamental trees, shrubs and flowering plants; propagating structures, soils and fertilizers. Practical instruction given in field and greenhouse. *Prerequisite*: Hort 201.

HORT 310—FLORICULTURE—3 cr. (2 and 3)

Greenhouse production of commercial flower crops; soils; fertilizers; greenhouse diseases and insects; flower crops to be grown on benches and as pot plants; marketing and costs of production. *Prerequisite*: Hort 201.

HORT 352—COMMERCIAL POMOLOGY—3 cr. (2 and 3)

Fruit bud formation, rest period and water relations of fruit plants, soils, fruit setting; orchard soil management and responses of various fruits to fertilizers; principles of pruning, effect of climatic differ-

ences, freezing of tissues and means of avoiding injury; harvesting, transportation and storage. *Prerequisite*: Hort 201.

HORT 402—GARDEN DESIGN—3 cr. (2 and 3)

The first half of this course is 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 plantings of herbaceous material. *Prerequisite*: Hort 407.

HORT 405—NUT TREE CULTURE AND SPRAYS—3 cr. (2 and 3)

Part I. Nut Tree Culture. The production, harvesting and marketing of the principal nut crops with emphasis on the pecan.

Part II. Sprays and Spraying. Application equipment, properties of spray chemicals, their influence on plant functions in pest control of horticultural crops, and methods of application. *Prerequisite*: Hort 201.

HORT 407—LANDSCAPE DESIGN—3 cr. (2 and 3)

The first half of this course is a study of trees, shrubs, vines and ground covers used in landscape planting. Attention is given to cultural requirements, growth habits, period of bloom, texture and fall color. The second half of the course is devoted to landscape planning for small residential properties.

HORT 409—SEMINAR—2 cr. (2 and 0)

Recent research work on various phases of horticulture, methods of conducting investigations, and preparation of report of investigations.

HORT 451—SYSTEMATIC POMOLOGY AND SMALL FRUIT CULTURE—3 cr. (2 and 3)

Part I. Systematic Pomology. 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. Varieties, soils, sites, culture, fertilizers, harvesting and preparation for marketing of grapes, strawberries, dewberries, blackberries, raspberries and other small fruits. *Prerequisite*: Hort 201.

HORT 456—TRUCK CROPS—3 cr. (2 and 3)

A detailed study of the principles and practices employed in the commercial growing and marketing of vegetable crops. Emphasis is placed on temperature requirements, plant characteristics, varieties, soils, fertilizers, weed control, harvesting and preparation for market. *Prerequisite*: Hort 201.

HORT 460—ADVANCED LANDSCAPE DESIGN—5 cr. (3 and 6)

Landscape planning for larger residential properties, schools, industrial plants, real estate developments; detailed finished plans, costs; further study of materials used; original problems; field study. *Prerequisite*: Hort 407.

HORT 464—FOOD PRESERVATION—3 cr. (2 and 3)

Theoretical background and fundamental processes of food preservation. Techniques used for community canning, commercial canning, frozen food preservation, juice manufacturing, jam and jelly making.

HORT 468—INTRODUCTION TO RESEARCH—2 cr. (1 and 3)

Principles, developments and changes in research methods related to certain fields of agricultural research. The students obtain practice in experimental techniques, scientific writing and the use and maintenance of various research instruments and equipment.

HORT 501—PROBLEMS IN SMALL FRUIT PRODUCTION—3 cr. (3 and 0)**HORT 502—ADVANCES IN HORTICULTURE—3 cr. (2 and 3)****HORT 503—ADVANCED VEGETABLE CROPS—3 cr. (3 and 0)****HORT 505—FOOD TECHNOLOGY—3 cr. (1 and 6)****HORT 507—ADVANCED POMOLOGY—3 cr. (3 and 0)****HORT 508—SPECIAL PROBLEMS IN HORTICULTURE—2 cr. (2 and 0)****HORT 591—RESEARCH—3 cr.****HORT 592—RESEARCH—3 cr.****INDUSTRIAL ARTS**

MR. BROCK, MR. MORGAN

IN AR 101—GENERAL WOODWORK—1 cr. (0 and 3)

A general course designed to teach the fundamental principles of woodworking. 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 202—WOOD PROCESSES—2 cr. (1 and 3)

An advanced course in woodwork and pattern making for engineering and industrial education students. The purpose of this course is to give students a working knowledge of the principles involved in the design and construction of wood patterns and of furniture. This is accomplished through lectures and with shop practice. *Prerequisite*: IE 101.

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 EDUCATION

MR. BROCK

IN ED 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.

IN ED 308—INDUSTRIAL EDUCATION LABORATORY—2 cr. (0 and 6)

A continuation of Industrial Education 307.

IN ED 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.)

IN ED 312—METAL PROCESSES IN THE GENERAL SHOP—3 cr. (3 and 0)

Major emphasis is placed on planning and development of projects in wrought iron, sheet metal, art metal, metal spinning, welding, heat treating and other aspects of metal work that fit into a general shop program. The course consists of shop practices as well as theoretical consideration of metal work, and is designed for both the vocational and the industrial arts teacher. (Offered in Summer Session only.)

IN ED 313—CERAMICS AND ALLIED PROCESSES IN THE GENERAL SHOP—3 cr. (3 and 0)

Materials and processes in the ceramic and allied industries are emphasized. A major part of the time is given to planning and development of projects involving extrusion, forming, molding and oven treatment of clays in making brick, tile, stoneware and pottery. Allied materials and processes such as glass making, blowing, coloring, and leading and molding are given some attention. The course is designed for vocational and industrial arts teachers. (Offered in Summer Session only.)

IN ED 314—BASIC ELECTRICITY IN THE GENERAL SHOP—3 cr. (3 and 0)

The place of electricity in industry and the home is studied and discussed. Major emphasis is placed on planning and developing projects involving an understanding of electrical principles as applied in electric circuits, electric motors, radio, television, telephony, and automatic controls involving vacuum tubes and other electronic devices and materials. In addition, attention is given to maintenance and servicing of electrical appliances used in the home. The course is designed to fit the need of vocational and industrial arts teachers. (Offered in Summer Session only.)

IN ED 315—TROWEL TRADE TECHNIQUES FOR THE GENERAL SHOP—3 cr. (3 and 0)

This course covers four major areas considered as constituting trowel trade work: brickmasonry, tile setting, concrete and cement work, and plastering. Open to vocational and industrial arts teachers. (Offered in Summer Session only.)

IN ED 316—PLASTICS AND PLASTIC PROCESSES IN THE GENERAL SHOP—3 cr. (3 and 0)

The industrial, commercial and personal uses of plastics are discussed and demonstrated. In addition, the kinds of plastics, their properties, and special uses are studied. This course is suitable for vocational and industrial arts teachers. (Offered in Summer Session only.)

IN ED 317—GRAPHIC ART PROCESSES IN THE GENERAL SHOP—3 cr. (3 and 0)

The graphic art processes as means of expression and communication are thoroughly studied and discussed. Major emphasis is placed on projects involving composing, proofing, letter press work, bed press work, block printing, silk screen printing, off-set printing and other processes in vogue at the present time. This course is designed for vocational and industrial arts teachers. (Offered in Summer Session only.)

IN ED 318—INDUSTRIAL TECHNOLOGY TECHNIQUES—3 cr. (3 and 0)

Methods and techniques of modern industrial production processes are investigated and studied. Students are required to set-up jigs and fixtures, develop and carry to completion projects involving production methods in modern industry. Major emphasis is placed on casting,

stamping and forming processes, forging and extrusion processes, machining processes, metal spraying or metallurgy, blast cutting, heating and case hardening, assembly processes, bending, finishing processes, inspection gaging. The course is of interest to vocational and industrial arts teachers. (Offered in Summer Session only.)

IN ED 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.)

IN ED 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.

IN ED 420—EDUCATIONAL AND VOCATIONAL GUIDANCE—3 cr. (3 and 0)

The need, meaning, basic assumptions, aims and objectives of guidance; general methods of investigation; use of school records; methods of study of occupations; guidance of students in choice of occupations.

IN ED 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 and more intelligently give guidance to high school students seeking jobs. A survey is made of youth problems, of employment trends, general industrial conditions, the kind of men industries want, of industrial plants, testing for mechanical aptitude, and of organizing occupational courses in high schools.

IN ED 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.)

IN ED 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 arts courses, including machine layouts for various

kinds of shops in order to make instruction effective. Emphasis is placed on all aspects of shop organization and management. (Offered in Summer Session only.)

IN ED 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.)

IN ED 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. (Offered in Summer Session only.)

IN ED 516—HISTORY AND PHILOSOPHY OF VOCATIONAL EDUCATION—3 cr. (3 and 0)

(Offered in Summer Session only.)

IN ED 521—ADULT EDUCATION DEVELOPMENT AND ADMINISTRATION—3 cr. (3 and 0)

IN ED 561—ADMINISTRATION AND SUPERVISION OF VOCATIONAL EDUCATION—3 cr. (3 and 0)

IN ED 596—RESEARCH IN INDUSTRIAL EDUCATION—3 cr.

INDUSTRIAL ENGINEERING

MR. FREEMAN

MR. MCCORMACK, MR. BROCK, MR. COUCH, MR. DUNKLE, MR. SHORT,
MR. MEEKS, MR. MORGAN, 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, and all welding processes. 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 203—MACHINE TOOL PROBLEMS—2 cr. (2 and 0)

Machine shop economics, theory and methods. Emphasis is placed on machine tool limitations and the economics of alternate processes. Theory includes calculations of machine set-ups, feeds, speeds, gear trains and jig and fixture design. (Offered to students not majoring in Engineering.) *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 301—INTRODUCTION TO INDUSTRIAL ENGINEERING—3 cr. (3 and 0)

Approximately two-thirds of this course is devoted to orientation in Industrial Engineering. The balance is applied to safety principles and problems as related to industry. *Prerequisite*: IE 201, Math 104 and junior standing.

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-treatment 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 and their maintenance.

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*: IE 201 and junior standing in Engineering.

IE 305—WORK SIMPLIFICATION AND STANDARDIZATION—3 cr. (3 and 0)

Principles and practices of motion and time as it is applied to industry. Emphasis is given to its application and its influence on methods, material handling, plant layout, and time study procedures. (For students not majoring in Engineering.) *Prerequisite*: IE 201 or IE 203 and junior standing.

IE 306—MACHINE PROBLEMS—2 cr. (1 and 3)

Mathematical calculations applicable to the design, set-up, and operation of production machines. Principles and problems stressed herein are common to most production lines and processes. *Prerequisite*: IE 201 and junior standing in Engineering.

IE 402—METALLURGY—3 cr. (2 and 3)

A course in general, basic metallurgy designed to acquaint students with the properties of metals so that they may select and design intelli-

gently. Alloys and principles of alloying are discussed as well as plastic deformation; i.e., rolling, forging, extruding and drawing. The various phases of heat treating are studied. New materials involved in nuclear engineering and in missile work are considered. *Prerequisite*: Chem 102, junior standing in Engineering.

IE 404—ENGINEERING ECONOMICS—3 cr. (3 and 0)

An analysis of prospective differences between engineering alternatives and the translation of these differences into terms involving time value of money. Included are studies on replacement, obsolescence and depreciation. *Prerequisite*: Econ 201 and senior standing in Engineering.

IE 405—PLANT LOCATION AND LAYOUT—3 cr. (2 and 3)

Principles involved in establishing a new enterprise and in analyzing existing plants. Plant and site selection, product analysis, equipment determination, plant layout and costs are studied as separate entities and as they are related within an organization. *Prerequisite*: IE 304 and senior standing in Engineering.

IE 406—PLANT OPERATION AND CONTROL—3 cr. (2 and 3)

Organizing for production. Employee selection and work assignments. Planning, scheduling, production control, quality control, store-keeping, cost control and operating budgets. *Prerequisite*: IE 301, 304 and senior standing in Engineering.

IE 407—QUALITY CONTROL—3 cr. (2 and 3)

Statistical principles used to analyze data influenced by a number of causes working together, each of which contributes to the quality of a manufactured product. By data analysis the assignable contributors to quality variations are detected during the process, thus affording a basis for immediate corrective measures. In addition, statistical probability principles are applied to acceptance sampling. Laboratory period is used for supervised data collection and calculator solutions. *Prerequisite*: senior standing in Engineering.

INDUSTRIAL MANAGEMENT

MR. TREVILLIAN

MR. DAVIS, MR. EDEL, MR. WILLIS, MR. LAROCHE

IM 301—COST ACCOUNTING—3 cr. (3 and 0)

The application of cost analysis to manufacturing and distributing problems. Analysis of the behavior characteristics of business costs and a study of principles involved in standard cost systems. Lectures and problems. *Prerequisite*: Acct 201 and 202.

IM 302—INDUSTRIAL MANAGEMENT—3 cr. (3 and 0)

Management problems and methods involved in the operation of manufacturing institutions, including location, equipment investment, organization structure and budgets. 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. *Prerequisite*: Junior standing.

IM 304—QUALITY CONTROL—3 cr. (3 and 0)

A study of basic control techniques in the field of industrial production, inspection and experimentation. Various sampling, control and inspection problems are studied with special reference to practical applications. Underlying theory, assumptions and limitations are presented. *Prerequisite*: Math 303.

IM 305—INCOME TAXATION—3 cr. (3 and 0)

Interpretation of Federal Income Tax laws, regulations, and court decisions with practice in application of these laws to the returns of individuals, partnerships, and corporations. *Prerequisite*: Junior standing.

IM 307—PERSONNEL MANAGEMENT—3 cr. (3 and 0)

An introductory course dealing with the principles and policies governing present day employee-employer relationships. Attention directed to methods of electing, training, placing, and promoting of employees to develop sound personnel techniques. *Prerequisite*: Junior standing.

IM 401—COST ACCOUNTING—3 cr. (3 and 0)

A continuation of IM 301 involving study of job cost, process cost and standard cost systems. Economic theory and accounting procedure will be correlated in the collection and analysis of cost data necessary for effective managerial control. *Prerequisite*: IM 301.

IM 402—PRODUCTION PLANNING AND CONTROL—3 cr. (3 and 0)

Methods of controlling the flow of personnel, machines and materials by means of scheduling, dispatching and routing. Includes a study of layout of equipment and facilities within the factory, and methods of materials handling. *Prerequisite*: Senior standing.

IM 404—MANAGERIAL 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. BROWN, MR. COKER, MR. HARDEN, MR. KIRKWOOD, MR. LAGRONE, MR. PARK, MR.

STANLEY, MR. STUART, MR. SULLIVAN, MR. ARMSTRONG, MR.

FLATT, MR. HILL, MR. D. A. KING, MR. G. D. KING, MR.

PALMER, MR. RIFE, MR. DERRICK, MRS. DUNKLE,

MRS. FULMER, MRS. LOY, MR. WILLIAMS

MATH 100—REMEDIAL MATHEMATICS—Non-Credit (5 and 0)

Required of all freshmen who fail to make a satisfactory grade on

the placement examination in mathematics. An intensified review of high school algebra.

MATH 101—COLLEGE ALGEBRA—3 cr. (3 and 0)

Elementary college algebra including the fundamental operations, 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)

Trigonometric functions, the solution of right and oblique triangles, trigonometric identities, trigonometric equations, graphs, inverse trigonometric functions. *Prerequisite*: Math 101.

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)

Differentiation and its application to maxima and minima problems, curve tracing, curvature, rates and differentials. *Prerequisite*: Math 104.

MATH 204—INTEGRAL CALCULUS—5 cr. (5 and 0)

Integration and its application to areas, volumes, lengths of curves, multiple integration. *Prerequisite*: Math 203.

MATH 301—ADVANCED ALGEBRA—3 cr. (3 and 0)

An advanced treatment of ratio and proportion, variation, progressions, surds, imaginary quantities, permutations, multinomial expansions, inequalities. *Prerequisite*: Math 104.

MATH 302—THEORY OF EQUATIONS—3 cr. (3 and 0)

Complex numbers, theorems on roots of polynomial equations, approximations, determinants, matrices and symmetric functions. *Prerequisite*: Math 204.

MATH 303—STATISTICS—3 cr. (3 and 0)

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)

The mathematical basis of statistics is emphasized in this course. The theory of probability, binomial distribution, Chi-square distribution, theory of sampling, reliability of statistical differences, sequential analysis. *Prerequisites*: Math 204 and Math 303.

MATH. 306—ORDINARY DIFFERENTIAL EQUATIONS—3 cr. (3 and 0)

Linear equations with constant coefficients, simultaneous equations, linear equations of second order, series solutions, applications to physics and engineering. *Prerequisite*: Math 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 309—THEORY OF APPROXIMATIONS—3 cr. (2 and 3)

Approximation techniques using tables and calculators; numerical solutions to equations; approximations with series; error analysis; elements of numerical differentiation and integration; Boolean Algebra, binary operations, applications to data reduction and computer theory. *Prerequisite*: Math 204.

MATH 401—COLLEGE GEOMETRY—3 cr. (3 and 0)

Theorems and concepts more advanced than those of high-school geometry. A treatment of the various properties of the triangle, including the notable points, lines, and circles associated with it. *Prerequisite*: Math 104.

MATH 450T—MATHEMATICS IN THE ELEMENTARY SCHOOL—3 cr. (3 and 0)

This course presents background for a better understanding and appreciation of the mathematical material in the instruction program of the elementary school. Special attention is given to the number system, the fundamental operations, percentage and measurement. Methods of teaching, problem solving evaluation are also considered. (Offered in Summer Session only.)

MATH 451—VECTOR ANALYSIS—3 cr. (3 and 0)

The algebra and calculus of vectors in two and three dimensions with applications to physics, geometry and engineering problems. *Prerequisite*: Math 306.

MATH 453—ADVANCED CALCULUS—3 cr. (3 and 0)

The definite integral, multiple integrals, line integrals, surface integrals, partial differentiation, Green's and Stokes' theorems, sequence and power series. *Prerequisite*: Math 306.

MATH 454—ADVANCED CALCULUS—3 cr. (3 and 0)

An introduction to Laplace transform, Fourier series, functions of a complex variable and the calculus of variations. *Prerequisite*: Math 453.

MATH 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 505—NUMERICAL ANALYSIS—3 cr. (3 and 0)

MATH 551T—FUNDAMENTAL CONCEPTS IN MATHEMATICS—3 cr. (3 and 0)

MATH 552T—FUNDAMENTAL CONCEPTS IN MATHEMATICS—3 cr. (3 and 0)

MATH 560T—THE TEACHING OF SECONDARY MATHEMATICS—3 cr. (3 and 0)

MATH 591—RESEARCH—3 cr.

MATH 592—RESEARCH—3 cr.

MECHANICAL ENGINEERING

MR. COOK

MR. EDWARDS, MR. LEWIS, MR. RAUSCH, MR. SAMS, MR. WATSON,
MR. ELROD, MR. HUDSON, MR. PERRY, MR. JOHNSON

ME 214—ENGINEERING PROBLEMS—1 cr. (0 and 3)

Designed to develop an analytical approach to the solution of engineering problems at an elementary level. *Prerequisite*: Math 103, 104 and enrollment in Phys 211.

ME 302—ELEMENTARY THERMODYNAMICS—3 cr. (3 and 0)

A basic engineering science course for those curriculums requiring only one course in thermodynamics. The first and second laws of thermodynamics, thermodynamic properties of substances, steady-flow and non-flow processes, gas and vapor power cycles, mixtures of gases and vapors, refrigeration and an introduction to heat transmission. *Prerequisite*: Phys 211, 212, Math 203, 204.

ME 304—HEAT TRANSFER—3 cr. (3 and 0)

A comprehensive study of the principles of Heat Transmission with applications to engineering problems. Special emphasis is given to the following topics: heat conduction in the steady and unsteady states; dimensional analysis of convection; free and forced convection; the combined effects of conduction, convection and radiation. *Prerequisite*: ME 302 or ME 311.

ME 307—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

For those curriculums requiring one course in Mechanical Engineering Laboratory. The course is intended to develop skill in written presentations of engineering information, to illustrate mechanical engineering theory and to develop experimental technique. Experiments in the fields of heat power, heat transfer, refrigeration and air conditioning and turbo-machinery are covered. *Prerequisite*: Enrollment in ME 302.

ME 311—ENGINEERING THERMODYNAMICS—3 cr. (3 and 0)

An engineering science course for mechanical engineering majors. First and second laws of thermodynamics, general equations of thermodynamics, properties of gases, vapors, and mixtures, flow and non-flow processes. *Prerequisite*: Math 204, Phys 212, ME 214, and junior standing.

ME 312—ENGINEERING THERMODYNAMICS—3 cr. (3 and 0)

A continuation of ME 311. Combustion, real gases, gas and vapor power, and refrigeration systems. *Prerequisite*: ME 311.

ME 314—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

Application of engineering theory to steady flow equipment, energy balances, convective heat transfer and instrumentation. *Prerequisite*: ME 311.

ME 403—GAS DYNAMICS—3 cr. (3 and 0)

Basic concepts, fundamental equation of steady flow, isentropic flow, flow with heat transfer, flow with friction, wave phenomena, variable area flow and introduction to multidimensional flow. *Prerequisite*: ME 312, Mech 401, senior Engineering standing.

ME 404—AUTOMATIC CONTROL ENGINEERING—3 cr. (3 and 0)

Study of characteristics of processes and controllers, as applied to closed loop feed back control systems. Transient, sinusoidal and stability analysis. *Prerequisite*: Math 306, Mech 303, Mech 401, ME 312, ME 304, senior Engineering standing.

ME 411—GAS POWER—3 cr. (3 and 0)

A senior synthesis course designed to apply the applicable phases of the basic and engineering sciences. Theoretical and actual cycles, performance characteristics, fuels, combustion, equilibrium, cooling, dynamics. *Prerequisite*: ME 312, 308, Mech 401, and senior standing.

ME 412—STEAM POWER—3 cr. (3 and 0)

A senior synthesis course designed to apply the basic and engineering sciences. Topics stressed are the design, arrangement and economic justification of steam power plant equipment. *Prerequisite*: ME 312, 308, Mech 401 and senior standing.

ME 413—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

A senior laboratory course for mechanical engineers intended to develop ability to devise experiments which will yield essential data. In-

terpretation of results and skill in written presentation of engineering information are stressed. The course illustrates mechanical engineering theory in the fields of heat power, refrigeration and air conditioning, heat transfer and turbomachinery. *Prerequisite*: ME 314 and enrollment in ME 411 or 412.

ME 414—MECHANICAL ENGINEERING LABORATORY—1 cr. (0 and 3)

A continuation of ME 413. *Prerequisite*: ME 314 and enrollment in ME 411 or ME 412.

ME 417—ENGINEERING ANALYSIS—1 cr. (0 and 3)

To develop the student's capacity to deal with new situations by applying initiative, analytical thought processes and fundamental principles. Problems actually confronted by practicing engineers are covered. *Prerequisite*: Senior Engineering standing.

ME 418—THESIS—1 cr. (0 and 3)

The development of an original solution to a current engineering problem. *Prerequisite*: Senior ME 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 ME or EE standing.

ME 422—PRINCIPLES OF TURBOMACHINERY—3 cr. (3 and 0)

A study of the guiding principles underlying all forms of turbomachinery. A unified treatment of turbomachinery to include pumps, fans, compressors and steam, gas and hydraulic turbines. Dimensional analysis as applied to turbomachinery, Eulers Equation, concepts of specific speed and thermodynamics of turbomachine processes and allied topics are covered. *Prerequisite*: Senior Engineering standing and permission of instructor.

ME 423—INTERNAL COMBUSTION ENGINE ANALYSIS—1 cr. (0 and 3)

Analysis of latest technical articles on I. C. engines. Students report on selected articles. Students must give reasons for the new process or method described, supported by basic theory. Each student then selects a field of interest for his own analysis problem and with suggestions from instructor completes an analysis and reports his findings to the class. *Prerequisite*: Senior Mechanical Engineering standing and enrollment in ME 411.

ME 429—AIR CONDITIONING—3 cr. (3 and 0)

A senior synthesis course designed to apply the principles of the applicable phases of the basic and engineering sciences. A study of the principles of heating and air conditioning, including calculation of heat loss and heat gains for buildings, heating and cooling systems, psychrometric principles, air distribution, refrigeration and automatic control apparatus. *Prerequisite*: ME 304, 312 and senior standing.

ME 430—AIR CONDITIONING DESIGN—1 cr. (0 and 3)

A practical application of the theory covered in ME 429. *Prerequisite:* Enrollment in ME 429.

ME 433—ELEMENTARY AERODYNAMICS—3 cr. (3 and 0)

Topics include physical properties of atmospheric air, the perfect fluid, the Bernoulli Equation, the general force equation, airfoil characteristics, aspect ratio and plan form influences, viscosity phenomena and compressibility phenomena. *Prerequisite:* ME 312, Mech 401.

ME 434—REFRIGERATION—2 cr. (2 and 0)

A thermodynamic analysis of the principles of refrigeration; a study of the design, operating principles and application of compression, absorption and steam jet systems of refrigeration. *Prerequisite:* ME 304 and ME 312.

ME 501—ADVANCED AIR CONDITIONING—3 cr. (3 and 0)**ME 510—ADVANCED THERMODYNAMICS—3 cr. (3 and 0)**

ME 511—THERMODYNAMICS OF COMPRESSIBLE FLUID FLOW — 3 cr. (3 and 0)

ME 521—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 532—ADVANCED HEAT TRANSFER—3 cr. (3 and 0)****ME 591—RESEARCH—3 cr.****ME 592—RESEARCH—3 cr.****MILITARY SCIENCE****COLONEL DOUGLASS**

LT. COL. BLACKBURN, LT. COL. BLOSS, LT. COL. SELLS, MAJ. BEAL,
 MAJ. GUICE, CAPT. CARMICHAEL, CAPT. GREENE, CAPT. SMITH,
 CAPT. THERRIEN, 1ST LT. SCHOW, 1ST LT. YOUNGKER, M/SGT.
 GRIMES, M/SGT. GUYTON, SFC BRIDGEWATER, SFC CONNOR,
 SFC KELLER, SFC LEWIS, SFC WASHNOK, SGT.
 ANDERSON, SGT. CORREAL, SGT. FIFE,
 SGT. FOREHAND, CPL. MUNDY

MS 101—MILITARY SCIENCE AND TACTICS (BASIC)—1 cr. (2 and 1)

An introduction to the study of Military Science and a foundation for continued training in leadership and responsibilities of an officer. Instruction in the guiding principles of organizing personnel with particular application to the Army and ROTC. Theory and practical application of the design, construction, and employment of the primary weapons

of military units. Theory and practical application of the basic principles of leadership.

MS 102—MILITARY SCIENCE AND TACTICS (BASIC)—1 cr. (2 and 1)

A continuation of MS 101 including a comprehensive study of military history. Development of the United States Army and progress to the present are stressed with emphasis on the factors which developed the type of organization, operational control, tactical methods, means of supply, and similar patterns in the present Army. Theory, practical application, and development of leadership is continued.

MS 201—MILITARY SCIENCE AND TACTICS (BASIC)—1 cr. (2 and 1)

Theory and practical application of the principles of preparation, reading, interpretation and use of maps and aerial photographs in the study and evaluation of terrain. Theory and practical application of the design, construction, and employment of more advanced weapons of the Army. A study of the missions and responsibilities of the United States Army as a member of the National Defense Team. Continued development of the characteristics of leadership by supervised solution of problems involved in the command of small units.

MS 202—MILITARY SCIENCE AND TACTICS (BASIC)—1 cr. (2 and 1)

Continuation of MS 201. Continued study of the United States Army and National Defense including manpower and training, and research and new developments. Continued study of advanced weapons to include tactics and principles of control and employment. Continued development of leadership through the study and supervised practical application of guiding principles.

MS 301—MILITARY SCIENCE AND TACTICS (ADVANCED)—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)—3 cr. (4 and 1)

A continuation of MS 301. Study and practical application of the techniques of organization, control, and employment of military units with particular attention to personnel management and the application of leadership principles in directing small tactical units. A study and familiarization with principles and means of electrical and other methods of communication. Continued training in the practical application of leadership principles in the development of individual character, initiative, confidence and other attributes essential to an officer.

MS 401—MILITARY SCIENCE AND TACTICS (ADVANCED)—3 cr. (4 and 1)

A study of advanced subjects of leadership, command, and staff which when correlated with other college courses and disciplines, will develop the individual character and attributes essential to an officer or civilian

leader. Principal subjects are executive types of organizations, problem solving and the transmission of decisions into instructions, and the responsibilities of executives regarding organizational training. Applicative phases of leadership are stressed throughout.

MS 402—MILITARY SCIENCE AND TACTICS (ADVANCED)—3 cr. (4 and 1)

A continuation of MS 401. Principal subjects include systems of industrial type supply, basic concepts of administration, fundamentals of civilian and military justice, a comprehensive orientation on geographic and economic factors and their influence on the divisions of peoples into nations and the courses of war, and the responsibilities of a leader. Student participation is emphasized throughout this last semester of Military Science.

MUSIC

MR. MCGARITY

MUSIC 103—CLASS BASIC PIANO—1 cr. (0 and 3)

Designed for beginning piano students meeting in groups as large as eight for three one-hour periods each week. The emphasis is on basic technique and rudiments essential for a successful initial keyboard experience. No previous training in music is required.

MUSIC 104—CLASS BASIC PIANO—1 cr. (0 and 3)

A sequel of Music 103 in which piano students meet in groups as large as eight for three one-hour periods each week. The emphasis is on basic technique and rudiments essential for successful experience in the performance at the piano of music suitable for community sings and similar functions. Students may enroll in Music 104 without having taken Music 103 only by permission of the instructor.

MUSIC 400—MUSIC IN THE ELEMENTARY SCHOOL CLASSROOM—3 cr. (3 and 0)

Designed to give the teacher in the elementary school a familiarity with music suitable for use with children at the elementary level. Recordings of appropriate music, pre-band instruments, unison and part singing will be included. No previous training in music is required. (Offered in Summer Session only.)

MUSIC 402—MUSIC APPRECIATION—3 cr. (3 and 0)

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, 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)

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. MILLER, MR. PORTER, MR. C. A. REED, MR. PATTERSON,
MR. A. R. REED, MR. WOOD, MR. BENNETT, *MR. KENDRICK,
MR. POLLARD, MR. SHACKELFORD, *MR. VOGEL,
MR. COLLINS

PHYS 201—GENERAL PHYSICS—3 cr. (3 and 0)

Motion; equilibrium; the conservation of momentum, mass and energy; vibrations; waves; temperature and heat. *Prerequisite*: Registration in Phys 203.

PHYS 202—GENERAL PHYSICS—3 cr. (3 and 0)

A continuation of Phys 201: Optics of lenses and mirrors; light waves; electric charges and currents, magnetism, electric and magnetic fields; properties of atomic particles; structure of atoms. *Prerequisite*: Phys 201 and registration in Phys 204.

PHYS 203—GENERAL PHYSICS LABORATORY—1 cr. (0 and 3)

Experiments designed to test or exemplify the laws studied in Phys 201 and to introduce precision measuring instruments. *Prerequisite*: Registration in Phys 201.

PHYS 204—GENERAL PHYSICS LABORATORY—1 cr. (0 and 3)

A continuation of Phys 203 using optical and electrical instruments. *Prerequisite*: Registration in Phys 202.

PHYS 211—GENERAL PHYSICS FOR ENGINEERS—4 cr. (4 and 0)

Mechanics, sound and heat, including the laws of motion; rotation; equilibrium; vibratory and wave motion; mechanical and thermal properties of solids, liquids and gases; with emphasis on the solution of problems. *Prerequisite*: Math 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.

*On leave

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 and 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 304—DESCRIPTIVE ASTRONOMY—3 cr. (3 and 0)

The properties of the planets and their satellites, their actual and apparent motions; the properties of stars and galaxies; current theories and speculations. *Prerequisite*: Phys 202, 212 or 216.

PHYS 305—PHOTOGRAPHY—3 cr. (2 and 3)

Various phases of photography including photographic optics, sensitivity of negative materials, making prints and enlargements, composition of pictures. *Prerequisite*: Phys 202, 212 or 216; permission of the instructor.

PHYS 308—SOUND AND ACOUSTICS—3 cr. (3 and 0)

Production, propagation, properties and measurement of sound waves with emphasis on the acoustics of buildings. *Prerequisite*: Phys 202, 212, or 216; registration in Math 203.

PHYS 312—HEAT AND KINETIC THEORY—4 cr. (4 and 0)

Thermometry, calorimetry, change of state, kinetic theory of gases and elements of thermodynamics, chemical applications. *Prerequisite*: Phys 202, 212, or 216; Math 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)

The motions of particles and of rigid bodies, gyroscopes; free, forced and damped vibrations; elasticity; surface tension; the flow of liquids; gravitation. *Prerequisite*: Phys 202, 212 or 216; Math 204.

PHYS 323—EXPERIMENTAL MECHANICS—1 cr. (0 and 3)

Precise measurements of mass, length and time; experiments with pendulums, gyroscopes, fluid flow; determination of the gravitational constant. *Prerequisite*: Registration in Phys 321.

PHYS 332—GEOMETRICAL OPTICS AND INTRODUCTION TO PHYSICAL OPTICS—3 cr. (3 and 0)

A study of images formed by mirrors and lenses; aberrations; the effect of stops and the design of optical instruments. Application of Maxwell's equations to optical problems. Interference phenomena. *Prerequisite*: Phys 202, 212 or 216; Math 204.

PHYS 341—ELECTRICITY AND MAGNETISM—3 cr. (3 and 0)

Electric circuits; electromagnetic induction; properties of capacitors and inductors as circuit elements; A. C. circuit problems by Vector method and by use of complex numbers; electrostatic fields. *Prerequisite*: Phys 212 or 216; Math 204.

PHYS 401—SENIOR THESIS—3 cr. (1 and 6)

The senior thesis is a semi-original piece of work performed under the direction of a member of the physics staff. The project is done in any one of the various fields of physics, but is usually associated with X-ray studies, electron microscopy, electronics or spectroscopy. *Prerequisite*: At least 3 Physics courses beyond General Physics.

PHYS 432—PHYSICAL OPTICS AND INTRODUCTION TO ATOMIC SPECTRA—3 cr. (3 and 0)

Theory and application of interference and diffraction phenomena, polarized light, magneto-optics and electro-optics. Introduction theory of Atomic Spectra. *Prerequisite*: Phys 332.

PHYS 434—EXPERIMENTAL LIGHT—1 cr. (0 and 3)

Measurement of the effect of varying the magnitude of optical parameters in optical instruments. Identification of unknown spectra using a reflection grating spectroscope and a quartz spectroscope. Foucault-Michelson method of determining the velocity of light. *Prerequisite*: Phys 332 and registration in Phys 432.

PHYS 441—ELECTRICITY AND MAGNETISM—3 cr. (3 and 0)

Electric potential; properties of dielectrics; magnetic fields due to moving charges; magnetic properties of materials; Maxwell's field equations with applications. Vector analysis is used throughout. *Prerequisite*: Phys 341 or equivalent; registration in Math 306.

PHYS 443—ELECTRICAL MEASUREMENTS—2 cr. (1 and 3)

Theory and practice of electrical measurements. Measurements with precision electrical instruments including potentiometers, bridges and ballistic galvanometers; includes both D. C. and A. C. measurements. *Prerequisite*: Phys 341.

PHYS 451—MODERN PHYSICS—3 cr. (3 and 0)

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—INTRODUCTORY NUCLEAR PHYSICS—3 cr. (3 and 0)

Various phases of nuclear physics including natural and induced radioactivity; properties of alpha, beta and gamma-rays; cosmic rays; nuclear energy levels and decay schemes; particle accelerators; fission, fusion and nuclear reactors. *Prerequisite*: Phys 451 or permission.

PHYS 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 454—NUCLEAR PHYSICS LABORATORY—1 cr. (0 and 3)

Techniques and instruments used in detection and measurement of nuclear radiation. Experiments include half-life determination, absorption measurements, neutron activation, coincidence measurements, decay schemes, and gamma-ray spectroscopy. *Prerequisite*: Registration in Phys 452.

PHYS 460T—MODERN PHYSICS FOR HIGH SCHOOL TEACHERS—3 cr. (3 and 0)

A study of later developments including the measurements of atomic particles. The formulation of new laws and the modifications of old ideas needed to describe the interactions of these particles.

PHYS 471—ELECTRON MICROSCOPY—3 cr. (2 and 3)

The theory and operation of the electron microscope. Magnetic lens theory. The technique of specimen mounting and the interpretation of electron micrographs and diffraction patterns. Each student may choose specimens from his major field. *Prerequisite*: General Physics, Math 204 and permission of instructor.

PHYS 501T—PHYSICS FOR HIGH SCHOOL TEACHERS (I)—3 cr. (3 and 0)

PHYS 502T—PHYSICS FOR HIGH SCHOOL TEACHERS (II)—3 cr. (3 and 0)

PHYS 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 543—REACTOR THEORY I—3 cr. (3 and 0)

PHYS 544—REACTOR THEORY II—3 cr. (3 and 0)

PHYS 545—SOLID STATE THEORY I—3 cr. (3 and 0)

PHYS 546—SOLID STATE THEORY II—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. BOONE, MR. COOPER, MR. BOGGS

PH 201—FARM AND COMMERCIAL POULTRY PRODUCTION — 3 cr. (2 and 3)

The poultry industry, nature and use of poultry products, classification and structure of the fowl, fundamentals of production and the economic aspects of the poultry business.

PH 352—POULTRY FEEDING AND FLOCK MANAGEMENT—3 cr. (2 and 3)

The evaluation of feedstuffs and the compounding of rations for poultry based on the nutrition requirements of the various classes of birds, and the economic consideration of various management practices. *Prerequisite*: PH 201, AH 301.

PH 354—POULTRY BREEDING—3 cr. (2 and 3)

The application of genetics to poultry breeding and the improvement of meat and egg production stocks through culling, selection and the application of various systems of breeding. *Prerequisite*: PH 201, Agron 302.

PH 355—POULTRY GRADING AND PROCESSING—3 cr. (2 and 3)

Classing, grading and judging of market eggs and poultry, and the preparation, packaging, processing, storage and freezing preservation of eggs and poultry. *Prerequisite*: PH 201.

PH 457—INCUBATION AND BROODING—3 cr. (2 and 3)

Principles and practices of incubation and brooding of the various species of poultry; hatchery management; and the production of broilers, pullets and turkeys. *Prerequisite*: PH 201.

PH 458—POULTRY DISEASES AND PARASITES—3 cr. (2 and 3)

Causes, occurrence, symptoms, treatment and eradication of poultry diseases and parasites; and sanitary practices on poultry farms and in hatcheries and market establishments. *Prerequisite*: PH 201, Bact 301, and Zool 402.

*On leave.

PH 460—SEMINAR—2 cr. (2 and 0)

Current research and commercial problems in poultry production and marketing, and special topics not fully covered in subject matter courses. *Prerequisite*: PH 201.

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. ARRINGTON, MR. OLIVEROS, MR. PARSONS, MR. STOCKMAN

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 303—HISTORY OF THE CHRISTIAN CHURCH—3 cr. (3 and 0)

The Christian church from New Testament times to the present.

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. AULL

MR. BOYD

RS 301—RURAL SOCIOLOGY—3 cr. (3 and 0)

A study of human social relationships as modified by life in the country including a consideration of the farm family, its housing, health, schooling, recreational opportunities, relation to land and other similar topics.

RS 454—FARMERS' MOVEMENTS—3 cr. (3 and 0)

An examination of the efforts of farmers to organize for the improvement of agriculture. The first local agricultural societies, the Grange, Farmers' Alliance, and like movements, are then studied in their chronological order of development.

RS 459—THE RURAL COMMUNITY—3 cr. (3 and 0)

The growth and development of the rural community with emphasis on organization of the community for its effective functioning in a changing society.

RS 461—RURAL LEADERSHIP—3 cr. (3 and 0)

Social and psychological factors involved in rural leadership including an examination and analysis of characteristics of the successful leader, and the role of the leader in the rural community.

RS 501—RURAL SOCIAL SYSTEMS—3 cr. (3 and 0)

SOCIOLOGY

MR. BURTNER

MR. WAITE

SOC 301—INTRODUCTORY SOCIOLOGY—3 cr. (3 and 0)

The basic principles of sociology: culture, biological factors, the influence of geographical environment, human nature, group life, social classes, communities, social institutions and social change. *Prerequisite*: Junior standing.

SOC 302—SOCIAL PROBLEMS—3 cr. (3 and 0)

A survey of the major social problems, including problems of industry, education, religion, disease and public health, poverty, dependency and factors affecting social adjustment. *Prerequisite*: Soc 301.

SOC 402—THE FAMILY—3 cr. (3 and 0)

An inquiry into the problems of marriage and family life: the history of the family, the sociology of family life, mate selection and courtship, husband-wife relationships, parent-child interaction, divorce, and conservation of family values. *Prerequisite*: Senior standing.

SOC 403—CRIMINOLOGY—3 cr. (3 and 0)

A consideration of the major problems of crime and its treatment: causes of crime, criminal behavior, theories and practices in the treatment of criminals, and prevention of crime. *Prerequisite*: Soc 301.

SOC 404—SOCIAL ANTHROPOLOGY—3 cr. (3 and 0)

Recent and contemporary man, as a social and culture-bearing animal with emphasis on the constants and variants in human behavior involved in technology, social relations, language, religion, art, and other aspects of cultures. *Prerequisite*: Soc 301.

SOC 405—INDUSTRIAL SOCIOLOGY—3 cr. (3 and 0)

A study of industry as a social organization together with the scientific examination of personality in industrial relations; the factory as a social system; problems of management; problems of labor; problems of special groups in industry; labor-management relations; and industry and the community. *Prerequisite*: 3 cr. of Sociology and permission of the instructor.

SOC 406—REGIONAL SOCIOLOGY—3 cr. (3 and 0)

An analysis and survey of American regions emphasizing facts, factors and policies pertaining to geography, population, culture, resources and waste, social institutions, and planning. *Prerequisite*: 3 cr. of Sociology.

SPANISH

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 foun-

dation 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. RAINEY

TC 305—TEXTILE CHEMISTRY—4 cr. (4 and 0)

For Textile Chemistry majors covering aliphatic organic compounds with major emphasis on products essential to the textile industry. *Prerequisite*: Chem 104.

TC 306—TEXTILE CHEMISTRY—4 cr. (4 and 0)

A continuation of TC 305 and 307, covering the aromatic compounds with particular attention to the chemistry of dyes and dye intermediates. *Prerequisite*: 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 321—INTRODUCTION TO TEXTILE CHEMISTRY—3 cr. (3 and 0)

The basic chemistry of the textile fibers and the reactions which are involved in the chemical processing of these fibers. The emphasis is placed on the properties and chemical behavior of such substances as cellulose, starch, resins and detergents as well as the natural and synthetic fibers. *Prerequisite*: Chem 101.

TC 322—THE CHEMICAL PROCESSING OF TEXTILES—3 cr. (3 and 0)

The processes and economics involved in the preparation of fibers

for use in textiles, and of the finishing processes employed after manufacture. Included in the topics are scouring, bleaching, mercerizing, flameproofing, stabilization, water repellency, wrinkle recovery. *Prerequisite*: TC 321.

TC 323—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be taken concurrently with TC 321.

TC 324—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be taken concurrently with TC 322.

TC 421—COLOR APPLIED TO TEXTILES—3 cr. (3 and 0)

Color, its source, its effects and its relation to chemical structure. The processes of applying color by dyeing and printing are covered, and the comparative values of the various dye groups to both the textile manufacturer and the consumer are discussed. *Prerequisite*: TC 321.

TC 423—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be taken concurrently with TC 421.

TC 440—TEXTILE FINISHING—3 cr. (1 and 6)

The principles involved in the application of finishes to textiles, with emphasis on the newer developments in this rapidly expanding phase of textile chemistry. The laboratory work covers practical work in color matching as well as the application of a wide range of finishes.

TC 442—THESIS—2 cr. (0 and 6)

An investigation by each Textile Chemistry senior of an assigned problem related to textile processing. A formal written report is required from each student. *Prerequisite*: Senior standing.

TC 447—THE CHEMICAL PROCESSING OF TEXTILE MATERIALS—3 cr. (3 and 0)

For Textile Chemistry majors similar to TC 421 and 423 except that it is more comprehensive with emphasis on the problems involved in the supervision of a textile finishing plant. *Prerequisite*: TC 306 and 308.

TC 449—TEXTILE CHEMISTRY LABORATORY—1 cr. (0 and 3)

This course is to be scheduled concurrently with TC 447.

TC 456—CHEMISTRY OF SYNTHETIC FIBERS AND FINISHES—3 cr. (3 and 0)

The chemistry of large molecular substances such as nylon, vinyon, the rayons, and the protein-type synthetics. The varied synthetic resins used for special effects on textiles are covered in detail. *Prerequisite*: TC 306 and 308.

TC 462—THE CHEMICAL PROCESSING OF TEXTILES—3 cr. (3 and 0)

A continuation of TC 447 which covers textile printing and the more complicated dyeing processes.

TC 464—THE CHEMICAL PROCESSING OF TEXTILES LABORATORY—1 cr. (0 and 3)

This course is to be taken concurrently with TC 462.

TC 475—CELLULOSE CHEMISTRY—2 cr. (2 and 0)

The constitution and behavior of cellulose and its derivatives. Particular attention is given to the purification of wood and other raw materials used for the preparation of rayon pulps. *Prerequisite*: TC 306 and 308.

TC 511—THE THEORY AND APPLICATION OF SYNTHETIC RESINOUS MATERIALS—3 cr. (2 and 3)

TC 512—THE THEORY AND APPLICATION OF SYNTHETIC RESINOUS MATERIALS—3 cr. (2 and 3)

TC 521—ADVANCED CELLULOSE CHEMISTRY—3 cr. (3 and 0)

TC 531—CHEMISTRY OF COLORING MATTERS—3 cr. (2 and 3)

TC 591—RESEARCH—3 cr.

TC 592—RESEARCH—3 cr.

TEXTILE MANAGEMENT

MR. CAMPBELL, MR. HEYN, MR. LAROCHE, MR. RICHARDSON, MR. WRAY

TM 101—INTRODUCTION TO TEXTILES—3 cr. (2 and 3)

An introduction to textile manufacturing. Elementary studies of staple fibers, and machinery involved in converting them into yarns and fabrics.

TM 301—TEXTILE QUALITY CONTROL—3 cr. (3 and 0)

The theory underlying Quality Control procedures, and an introduction to these procedures with particular reference to the textile industry. The material covered includes probability, frequency, distributions, and various lot acceptance sampling plans.

TM 302—TEXTILE QUALITY CONTROL—3 cr. (3 and 0)

A continuation of TM 301. The practical use of statistics and Quality Control in industry with particular reference to textiles. Control charts for variables, control charts for fraction defective, and control charts for defects per unit are presented, along with some statistics which are useful in industrial research. *Prerequisite*: TM 301.

TM 401—TEXTILE COSTING—5 cr. (3 and 6)

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 cost control; budgeting; employment; training; standards; 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)

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)

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.

TM 468—SEMINAR—1 cr. (1 and 0)

Visiting lecturers will be invited in to talk on things of general interest in the industry. *Prerequisite*: Senior standing.

WEAVING AND DESIGNING

MR. MCKENNA

MR. CARTEE, MR. HUBBARD, MR. TARRANT, MR. WALTERS, MR. WILLIAMS,
MR. EFLAND, MR. JAMESON, MR. WHITTEN

WD 221—FABRIC DESIGN—3 cr. (2 and 3)

To give a practical working knowledge of the weaves used in fabricating many elementary and some complex woven fabrics. It is a continuation of the design work given in TM 101 and will include the derivatives of the foundation weave and the more complex weaves used in special and compound fabrics.

WD 225—LOOM MECHANISM—2 cr. (1 and 3)

To give theoretical and practical working knowledge of the construction, mechanical operation, and adjustments of the cam loom.

WD 226—LOOM MECHANISMS—2 cr. (1 and 3)

A continuation of WD 225 and will include studies of the construction, mechanical operation, and adjustment of the dobbie, box, and jacquard mechanisms.

WD 301—FABRIC STRUCTURE AND DESIGN—2 cr. (1 and 3)

The plans, drafts and specifications required for the production of plain, leno, and figured fabrics. Leno mechanisms and design; warp and filling layouts; weave combinations; fabric construction; ratio of intersections; harness, reed and chain plans; warping and slashing plans. *Prerequisite*: WD 221.

WD 302—FABRIC ANALYSIS—2 cr. (1 and 3)

The analysis of fabrics as they come to the mill for reproduction. Methods of determining yards per pound from a small sample and from the yarn counts; overall and ground construction; selection of yarn counts; determining the design, drawing-in-draft, chain draft and reed plan; warp dressing plan; cotton, wool, silk and rayon fabrics. *Prerequisite*: WD 221.

WD 309—KNITTING—1 cr. (0 and 3)

The principles of knitted fabric construction and hosiery production. Knitting mechanisms, construction of knitted fabrics and hosiery, rib knitting, hosiery machinery, fancy knitting and knitting calculations.

WD 322—HOSIERY KNITTING AND DESIGN—3 cr. (2 and 3)

Circular hosiery knitting machines and the designing of hosiery. Mill problems and hosiery yarns. *Prerequisite*: WD 309.

WD 401—WARP PREPARATION—2 cr. (1 and 3)

Warping and slashing mechanisms and the plans and requirements for efficient operation. Types of warping equipment; slashing machinery; size mixtures and processing methods for cotton, rayon and other fibers. *Prerequisite*: WD 301.

WD 402—FABRIC DEVELOPMENT—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 order problems. *Prerequisite*: WD 226, 301, 302.

WD 403—ADVANCED DESIGNING—3 cr. (2 and 3)

A continuation of WD 221 covering the more complex weaves for double cloths, pile fabrics, and jacquard effects. *Prerequisite*: WD 221 and WD 226.

WD 421—OUTWEAR AND UNDERWEAR—2 cr. (1 and 3)

Machines used in the underwear and outwear trade and the design and analysis of these fabrics. Markets and outlets. Knitting yarns. *Prerequisite*: WD 309.

WD 422—FLAT KNITTING—3 cr. (2 and 3)

Full-fashioned hosiery and tricot machines. Yarns preparation, packaging and finishing. Markets. *Prerequisite*: WD 309.

WD 432—GARMENT MANUFACTURE—3 cr. (2 and 3)

Cutting, fabricating, packaging as applied to the garment industry. Organization and layout programs.

YARN MANUFACTURING

MR. THOMSON, *MR. MARVIN, MR. THOMPSON, MR. WILSON

YM 221—OPENING AND BLENDING—3 cr. (2 and 3)

The necessity for blending, opening and preliminary cleaning and the equipment for doing this on cotton and man-made fibers. Waste and other calculations, measuring devices and evener motions. Basic cotton classing.

YM 222—CLEANING—3 cr. (2 and 3)

Cleaning and processing as done by the card and comber. Settings and speeds. Calculations for draft production and waste. Job distribution and work loads. Theory of fiber separation.

YM 301—ROVING FRAMES—3 cr. (2 and 3)

The construction and operation of fly frames. Drafting, twisting and winding on slubbers, intermediates, and Jack frames; production, rolls, spindles and flyers, differential motions and cones, twist per inch; all calculations for these topics.

YM 321—DRAFTING, TWISTING AND WINDING (I)—3 cr. (2 and 3)

Roller drafting as done by the drawing frame and roving frame. Roll settings and drafting systems. Twisting and winding as done on the roving frame. Calculations applying to drawing frames and roving frames. Job distribution and work loads.

YM 322—DRAFTING, TWISTING AND WINDING (II)—3 cr. (2 and 3)

The manufacturing possibilities of the ring spinning frame and ring twister as they are used in the processing of staple fibers. The theory of the spindle, ring and traveler, drafts, twist, builder motions, production, general machine construction, and problems applicable to machines. Job distribution and work loads.

YM 401—YARN MANUFACTURING PROBLEMS—3 cr. (2 and 3)

A thesis type course of planning, record keeping and writing a report on a yarn manufacturing problem. Problem will include processing. *Prerequisite*: Senior standing.

ZOOLOGY

MR. COCHRAN

MR. ANDERSON, MR. KING, MR. REED, MR. WARE, MR. WEBB, MR. ADKINS,
MR. SWIFT

ZOO 101, 103—GENERAL ZOOLOGY—4 cr. (3 and 3)

Thorough training in fundamental animal types and zoological prin-

*On leave.

ciples. The morphology, physiology, behavior, reproduction, ecology, embryology, zoogeography, evolution and palaeontology of each phylum are presented.

ZOOL 301—COMPARATIVE VERTEBRATE ANATOMY—3 cr. (2 and 3)

Advanced training in zoological principles, physiology and comparative vertebrate anatomy. *Prerequisite*: Zool 101, 103.

ZOOL 302—VERTEBRATE EMBRYOLOGY—3 cr. (2 and 3)

Fundamentals of developmental anatomy of the organ systems as illustrated by the chick and pig. Students prepare histological sections and mounts to acquire practice in laboratory procedures and knowledge of vertebrate microscopic anatomy. Identification of the various tissues is stressed. *Prerequisite*: Zool 101, 103 and 301.

ZOOL 304—ANIMAL ECOLOGY—2 cr. (1 and 3)

Marine, fresh water and land animal communities as they exist in South Carolina. Students will gain a knowledge of the common animal associations as they are related to land use through lectures, reading, films and field trips.

ZOOL 306—GAME MANAGEMENT—2 cr. (2 and 0)

Breeding habits of game animals and birds and type of territory desirable. The ethics of sportsmanship and the control of predators are among other subjects covered.

ZOOL 312—WILDLIFE MANAGEMENT—3 cr. (2 and 3)

Basic principles and general practices of Wildlife Management and Conservation will be covered. This course deals with the major problems concerning the management of Wildlife Resources, with emphasis on upland game species. The laboratory work includes practical work on the Clemson College Woodlands and field trips to several areas where wildlife management is being practiced.

ZOOL 402—ANIMAL ANATOMY AND PHYSIOLOGY—3 cr. (2 and 3)

Anatomy, and physiological processes of ingestion, secretion, excretion, respiration, circulation, reproduction and metabolism of warm-blooded animals. This course is designed for students majoring in Pre-Medicine, Pre-Veterinary, Animal Husbandry, Dairy and Poultry. *Prerequisite*: Zool 101, 103.

ZOOL 403—PROTOZOOLOGY—3 cr. (2 and 3)

Taxonomy of the sub-kingdom protozoa with special reference to the parasitic forms directly affecting man. Representative types of free-living forms are surveyed with emphasis on their morphology, physiology and distribution. *Prerequisite*: Zool 101, 103.

ZOOL 404—DISEASES OF ANIMALS—3 cr. (2 and 3)

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.

ZOOL 405—ANIMAL HISTOLOGY—3 cr. (2 and 3)

Microscopic structures of tissues and organs of the animal body. This course is for students in Pre-Veterinary, Pre-Medicine and the Animal Science courses. *Prerequisite*: Zool 101, 103.

ZOOL 456—PARASITOLOGY—3 cr. (2 and 3)

Parasites affecting man and domestic animals. Life cycles, vectors and practical controls are emphasized.

ZOOL 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**

PART VI

**Public Service
Activities**

SCHOOL OF AGRICULTURE STAFF¹

TEACHING AND PUBLIC SERVICE ACTIVITIES

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B. D. CLOANINGER, M.S.	<i>Director, Fertilizer Inspection and Analysis</i>
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J. W. JONES, PH.D.	<i>Director of Agricultural Teaching</i>
G. B. NUTT, M.S.	<i>Director of Extension</i>
T. W. MORGAN, M.S.	<i>Associate Director of Extension</i>
SALLIE P. MUSSER, M.A.	<i>State Home Demonstration Agent</i>
M. H. SUTHERLAND, B.S.	<i>Assistant in Farm and Home Development</i>
C. J. TURNER, B.S.	<i>Assistant to Director of Agricultural Experiment Station</i>
G. H. BONNETTE, B.S.	<i>Administrative Assistant</i>

Extension District Agents

L. B. Massey, B.S.	First District, Clemson
F. M. Kearse, B.S.	Second District, Florence
D. A. Shelley, B.S.	Third District, Barnwell

Associate District Agents

W. Gertrude Lanham, M.S.	First District
Curtys Ballentine, M.S.	Second District
Eva M. McGee, B.S.	Third District

Supervisors Negro Extension Work

E. N. Williams, B.S.A.	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, B.S.	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
C. H. Mudge, B.S.—	Sheep Station, Wellman Division, P. O. Box 246, Johnsonville
H. H. Pierce, Ph.D.	Coast Station, Summerville
J. B. Pitner, Ph.D.	Pee Dee Station, Florence
W. H. Rhodes, B.S.	Sandhill Station, P. O. Box 1174, Columbia
W. B. Rogers, B.S.	Edisto Station, Blackville

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
D. W. Bickley, B.S.†	Assistant Agricultural Economist
V. A. Boyd, M.S.A.*	Associate Professor of Rural Sociology

¹Staff list compiled October 1, 1958.

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T. A. Burch, M.S.†	Assistant Agricultural Economist
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Agricultural Education

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B. H. Stribling, M.S.*	Associate Professor of Agricultural Education
T. A. White, Ph.D.*	Professor of Agricultural Education

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A. W. Snell, M.S.*†	Head of Department, Professor of Agricultural Engineering, Agricultural Engineer
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W. E. Garner, M.S.†	Agricultural Engineer (USDA)
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J. A. Luscombe, M.S.†	Agricultural Engineer (USDA)
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M. C. McKenzie, B.S.††—	Leader, Agricultural Engineering Extension Work

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B. K. Webb, B.S.†	Assistant Agricultural Engineer
T. V. Wilson, M.S.*†	Professor of Agricultural Engineering, Agricultural Engineer

Agronomy and Soils

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J. W. Jones, Ph.D.*	Professor of Agronomy
Mary W. King, B.S.†	Assistant in Soil Testing
G. W. Langdale, B.S.†	Soil Scientist (USDA)
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E. F. McClain, M.S.†	Assistant Agronomist
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J. B. Pitner, Ph.D.†	Superintendent and Agronomist, Pee Dee Station
W. H. Rhodes, B.S.†	Superintendent, Sandhill Station
V. A. Rogers, B.S.†	Assistant in Soil Testing
W. B. Rogers, B.S.†	Superintendent, Edisto Station

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††Extension Staff.

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S. G. Woods, B.S.†	Assistant Animal Husbandman, Edisto Station

Botany, Bacteriology and Plant Pathology

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W. B. Albert, Ph.D.†	Associate Plant Physiologist
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Crop Pest Commission

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 W. M. Epps, Ph.D.*† ----- State Plant Pathologist,
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Dairy

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 C. C. Brannon, B.S.*† ----- Associate Dairyman,
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Entomology and Zoology

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Farms

John S. Evans, M.S.†	Head of Department <i>Fertilizer Inspection and Analysis, Agricultural Chemistry, Research Division</i>
----------------------	--

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Dorothy Brock, B.S.†	Fertilizer Assistant Chemist
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C. G. Littleton†	Fertilizer Laboratory Technician
J. P. Livingston, B.S.†	Fertilizer Laboratory Technician
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LeRoy Pike, A.B.†	Fertilizer Associate Chemist
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Food Technology and Human Nutrition

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E. J. Lease, Ph.D.†	Nutritionist

Forestry

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N. B. Goebel, M.S.†	Associate Forester
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S. A. Marbut, B.S.††	Extension Forester
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Four-H Club Work

J. B. Williams, B.S.††	State 4-H Club Agent
L. O. Clayton, M.A.††	State Boys' 4-H Club Agent

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†Research Staff.
††Extension Staff.

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 Georgia M. Taylor, M.S.†† _____ State Girls' 4-H Club Agent
 Sarah Allen, M.S.†† _____ Assistant, State Girls' 4-H Club Agent
 J. T. Rogers, B.S.†† _____ District Boys' 4-H Club Agent, Aiken
 Waymon Johnson, M.S.†† _____ Negro Boys' 4-H Club Agent
 Sara K. Aiken, B.S.†† _____ Negro Girls' 4-H Club Agent

Home Demonstration

Ruby M. Craven, M.S.†† _____ Extension Home Management Specialist
 Ellie Herrick, B.S.†† _____ Extension Family Life Specialist
 Margaret Martin, M.A.††—
 Extension Food Production and Conservation Specialist
 Janie McDill, M.S.†† _____ Extension Nutritionist
 Betty Lee Palmer, B.S.†† _____ Extension Consumer Information Specialist
 Vela M. Smith, B.S.†† _____ Extension Clothing Specialist

Horticulture

T. B. Hagler, Ph.D.*† _____ Head of Department,
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 H. A. Bowers, M.S.†† _____ Extension Truck Crops Specialist, Barnwell
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 Associate Horticulturist and Associate Professor of Horticulture
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‡On Leave.

Publications

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J. M. Eleazer, B.S.††	Extension Information Specialist
J. R. Mattison, B.S.††	Extension Radio Specialist
Doris A. Timmerman, B.A.†† †	Assistant Agricultural Editor

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Edgar M. Huggins, M.S.†	Assistant Agronomist

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L. C. Hamilton, B.S.††	Extension Photographer
J. G. Nowell††	Assistant Photographer

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Aiken	R. R. Mellette, B.S.	Aiken
Allendale	H. V. Rogers, B.S.*	Allendale
Allendale	J. W. Gilliam, Jr., B.S., Acting	Allendale
Anderson	H. D. Maret, B.S.	Anderson
Bamberg	R. C. Hubbard, Jr., B.S.	Bamberg
Barnwell	J. B. Griffith, B.S.	Barnwell
Beaufort	W. L. Johnson, B.S.	Beaufort
Berkeley	M. C. Mason, B.S.	Moncks Corner
Calhoun	O. W. Cain, B.S.	St. Matthews
Charleston	C. J. Livingston, B.S.	Charleston
Cherokee	T. B. Lee, 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	D. A. Benton, B.S.	Dillon
Dorchester	D. E. Epps, B.S.	St. George
Edgefield	O. W. Lloyd, B.S.	Edgefield
Fairfield	M. H. Lynn, B.S.	Winnsboro
Florence	H. F. Livingston, 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	Maret Outz, B.S.	Laurens
Lee	V. F. Linder, B.S.	Bishopville
Lexington	M. A. Bouknight, B.S.	Lexington
McCormick	G. W. Bonnette, B.S.	McCormick
Marion	J. L. King, B.S.	Marion
Marlboro	E. C. Abrams, B.S.	Bennettsville
Newberry	A. F. Busby, B.S.	Newberry
Oconee	J. C. Morgan, B.S.	Walhalla
Orangeburg	J. C. King, B.S.	Orangeburg
Pickens	J. R. Wood, B.S.	Pickens
Richland	R. W. Bailey, B.S.	Columbia
Saluda	W. H. Craven, Jr., B.S.	Saluda

*Study Leave.

†Research Staff.

††Extension 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

ASSOCIATE AND ASSISTANT COUNTY AGENTS

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Abbeville	M. L. West, B.S.	Abbeville
Aiken	W. A. Beasley, B.S., Assoc.	Aiken
Aiken	J. W. Riser, B.S.	Aiken
Anderson	R. C. McDaniel, B.S.	Anderson
Anderson	K. L. Swiney, B.S.	Anderson
Anderson	D. W. Howe, B.S.	Anderson
Bamberg	L. R. Allen, B.S.	Bamberg
Barnwell	R. H. Sams, B.S., Assoc.	Barnwell
Beaufort	Wilton Hucks, B.S.	Beaufort
Berkeley	B. S. Lawrimore, B.S.	Moncks Corner
Berkeley	C. P. Goodyear, B.S., Assoc.	Moncks Corner
Calhoun	R. N. Chastain, B.S.	St. Matthews
Charleston	F. B. Cates, B.S.	Charleston
Cherokee	W. A. Ridgeway, B.S., Assoc.	Gaffney
Chester	O. F. Lovelace, B.S.	Chester
Chester	C. N. Strange, B.S.	Chester
Chesterfield	E. C. Wallace, B.S., Assoc.	Chesterfield
Chesterfield	A. H. Marshall, B.S.	Chesterfield
Chesterfield	J. M. Lawrence, B.S.	Chesterfield
Clarendon	F. M. Johnson, B.S.	Manning
Clarendon	G. H. Liebenrood, M.S., Assoc.	Manning
Colleton	J. R. White, Jr., B.S., Assoc.	Walterboro
Colleton	H. S. Jenkins, B. S.	Walterboro
Darlington	C. G. Newton, Jr., B.S.	Darlington
Darlington	R. C. DuBose, B.S.	Darlington
Dillon	W. D. Witherspoon, B.S.	Dillon
Dorchester	John Miley, B.S.	St. George
Edgefield	J. R. Meredith, M.S.	Edgefield
Edgefield	C. R. Tuten, B.S.	Edgefield
Edgefield	S. M. Hair, B.S.	Edgefield
Fairfield	A. D. Boggs, B.S.	Winnsboro
Florence	W. J. McMillan, B.S.	Florence
Florence	J. M. Parnell, B.S.	Florence
Florence	W. H. Eaddy, B.S.	Florence
Florence	T. R. Gerald, B.S.	Florence
Florence	E. L. Gerald, B.S.	Florence
Georgetown	A. E. Liebenrood, B.S.	Georgetown
Greenville	G. D. Butler, Special Assistant	Greenville
Greenville	T. J. Bryson, B.S.	Greenville
Greenwood	W. H. O'Brien, B.S.	Greenwood
Hampton	O. F. Huff, B.S.	Hampton
Hampton	G. E. Bell, B.S.	Hampton
Horry	Charlie Webster, B.S.	Conway
Horry	H. B. Hardee, B.S.	Conway
Jasper	D. A. Inabinet, B.S.	Ridgeland
Kershaw	R. R. Montgomery, B.S.	Camden
Lancaster	J. C. DeBruhl, B.S.	Lancaster
Laurens	R. J. Bennett, B.S.	Laurens
Lee	L. S. Livingston, B.S.	Bishopville
Lexington	F. A. Hipp, B.S.	Lexington
Lexington	R. L. Boozer, B.S.	Lexington

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Marion	M. J. Carter, B.S., Assoc.	Marion
Marion	A. C. Altman, B.S.	Marion
Marlboro	R. C. Smith, B.S.	Bennettsville
Newberry	W. S. Walker, B.S.	Newberry
Newberry	J. O. Donkle, B.S.	Newberry
Oconee	D. P. Matheson, B.S., Special Asst.	Walhalla
Oconee	G. W. Littlejohn, B.S.	Walhalla
Orangeburg	J. H. Evans, B.S.	Orangeburg
Orangeburg	J. D. Sparkman, B.S.	Orangeburg
Orangeburg	Reuel McLeod, B.S.	Orangeburg
Orangeburg	M. L. Chason, M.S.	Orangeburg
Orangeburg	C. W. Ackerman, B.S.*	Orangeburg
Pickens	N. C. Anderson, B.S., Assoc.	Pickens
Pickens	F. M. Fleming, B.S., Assoc.	Pickens
Richland	W. H. Funchess, B.S.	Columbia
Richland	R. H. Berly, B.S.	Columbia
Richland	W. S. Toy, B.S.	Columbia
Saluda	P. B. Dukes, B.S.*	Saluda
Saluda	R. C. Stoddard, B.S.	Saluda
Spartanburg	Crayton McCown, B.S., Assoc	Spartanburg
Spartanburg	B. W. Sherer, B.S.	Spartanburg
Spartanburg	W. J. Bailes, B.S.	Spartanburg
Spartanburg	G. W. Bowen, B.S.	Spartanburg
Spartanburg	R. L. Squires, B.S.	Spartanburg
Sumter	R. D. McNair, B.S., Assoc.	Sumter
Sumter	T. B. Tillman, Jr., B.S.	Sumter
Union	C. K. Palmer, B.S.	Union
Williamsburg	L. B. Harrington, B.S., Assoc.	Kingstree
Williamsburg	R. M. Johnston, B.S.	Kingstree
York	C. H. Fant, B.S., Assoc.	York
York	J. D. Williams, B.S., Assoc.	York
York	P. H. Berry, B.S.	York
York	Jack McAlister, 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
Barnwell	R. V. Maloney, B.S.A.	Barnwell
Beaufort	P. T. Seabrook, M.S.	Beaufort
Berkeley	R. C. Bacote, B.S.A.	Moncks Corner
Berkeley	M. B. Jackson, B.S.A., Asst. Negro Agric. Agent	Moncks Corner
Charleston	B. T. McIntosh, B.S.A.	Charleston
Cherokee	Julius Westbrooks, B.S.A.	Gaffney
Chester	M. M. Sitton, B.S.A.	Chester
Chesterfield	C. N. Wilson, B.S.A.	Chesterfield
Chesterfield	Ernest Dowdy, B.S., Asst. Negro Agric. Agent	Chesterfield
Clarendon	Hugene Gerald, M.S.A.	Manning
Colleton	J. J. Mitchell, B.S.A.	Walterboro
Colleton	J. E. Page, B.S.A., Asst. Negro Agric. Agent	Walterboro
Darlington	S. C. Disher	Darlington
Dorchester	Eugene Frederick, B.S.A.	St. George
Fairfield	D. G. Belton, Jr., B.S.A.	Winnsboro
Florence	H. S. Person, B.S.A.	Florence

*Study Leave.

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Florence	Joseph Hill, B.S.A., Asst. Negro Agric. Agent	Florence
Greenville	F. D. Garrett, B.S.A.	Greenville
Greenwood	E. M. Middleton, M.S.	Greenwood
Hampton	J. A. Spruill, B.S.	Estill
Horry	W. P. Johnson	Conway
Kershaw	J. D. Marshall, B.S.A.	Camden
Lancaster	R. N. Smith, B.S.A.	Lancaster
Laurens	Charlie Bronson, Jr., B.S.A.	Laurens
Marion	C. A. Brown, B.S.A.	Marion
Marlboro	Quincy 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., Asst. Negro Agric. Agent	Orangeburg
Richland	I. E. McGraw, B.S.A.	Columbia
Richland	C. P. Salley, B.S.A., Asst. Negro Agric. Agent	Columbia
Spartanburg	R. C. Smith, Jr., B.S.A.	Spartanburg
Spartanburg	B. L. Cunningham, M.S., Asst. Negro Agric. Agent	Spartanburg
Sumter	Arthur Sanders, B.S.A.	Sumter
Union	T. E. Shields, 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., Asst. Negro Agric. 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	Mary Lois Ayers, B.S.	Abbeville
Aiken	Alpha C. Jenkins, B.S.	Aiken
Allendale	Mamie Sue Hicks, B.S.	Allendale
Anderson	Elzie K. Nelson, B.S.	Anderson
Bamberg	Jessica Dantzler, B.S.	Bamberg
Barnwell	Laura C. Johnson, B.A.	Barnwell
Beaufort	Vivian C. Gibson, B.S.	Beaufort
Berkeley	Grace N. Henderson, B.S.	Moncks Corner
Calhoun	Addie M. Forrester, B.S.	St. Matthews
Charleston	Lillian Rubenstein, 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	Isobel Heaton, B.S.	Walterboro
Darlington	Sara E. Roper, B.S.	Darlington
Dillon	Lina Surls, B.S.	Dillon
Dorchester	Mildred Lyles, B.S.	St. George
Edgefield	Dorothy Herlong, B.S.	Edgefield
Fairfield	Mattie Lee Cooley, B.S.	Winnsboro
Florence	Eleanor M. Foster, B.S.	Florence
Georgetown	Anne Thomasson, B.S.	Georgetown
Greenville	M. Myrtle Nesbitt, B.S.	Greenville
Greenwood	A. Louise McColl, B.S.	Greenwood
Hampton	Lucille Alsing, B.S.	Hampton
Horry	T. Hunter Owings, B.A.	Conway
Jasper	Elizabeth B. Berry, B.S.	Ridgeland
Kershaw	Jacqueline Sinclair, B.S.	Camden

<i>County</i>	<i>Name</i>	<i>Post Office</i>
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	Edith A. Byrd, B.S.	McCormick
Marion	Sallie M. Smith, B.S.	Marion
Marlboro	L. Louise Heriot, M.S.	Bennettsville
Newberry	Margie D. Freeman, B.S.	Newberry
Oconee	Hazle Wise, 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	Margaret Forkner, B.S.	Sumter
Union	Esther S. Senn, B.S.	Union
Williamsburg	Carrie C. Tomlinson, B.S.	Kingstree
York	Jennie M. Riddle, B.S.	York

ASSISTANT COUNTY HOME DEMONSTRATION AGENTS

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Anderson	Azalea Carmichael, B.S.	Anderson
Anderson	Jane McKay, B.S.	Anderson
Bamberg	Sara K. Nicholson, B.S.	Bamberg
Berkeley	Jewel Weatherford, B.S.	Moncks Corner
Cherokee	Betty Smith, B.S.	Gaffney
Chesterfield	Lela Chapman, B.S.	Chesterfield
Chesterfield	Claudella Burgess, B.S.	Chesterfield
Clarendon	Mildred Crocker, B.S.	Manning
Colleton	Dorothy Jefferies, B.S.	Walterboro
Colleton	Sylvia Cochran, B.S.	Walterboro
Darlington	Mary Brady, B.S.	Darlington
Dillon	Patricia Ammons, B.S.	Dillon
Edgefield	Jo Ann Burriss, B.S.	Edgefield
Florence	Donna H. Pratt, B.S.	Florence
Florence	Alma G. Sanderson, B.S.	Florence
Greenville	Eugenia Ogden, B.S.	Greenville
Horry	Mary C. McCarrel, B.S.	Conway
Horry	Etta H. Holmes, B.S.	Conway
Kershaw	Dean Lucas	Camden
Laurens	Mildred Holliday, B.S.	Laurens
Lexington	Annie Stanfield, B.S.	Lexington
Lexington	Doris Gerrald, B.S.	Lexington
Marion	Claire L. Baker, B.S.	Marion
Newberry	Doney Crain, B.S.	Newberry
Orangeburg	Huldah P. McKnight, B.S.	Orangeburg
Pickens	Joan Ray, B.S.	Pickens
Richland	Theresa W. Beckham, B.S.	Columbia
Richland	Shirley W. Arledge, B.S.	Columbia
Saluda	Josie P. Brown, B.S.	Saluda
Spartanburg	June Smoak, B.S.	Spartanburg
Sumter	Shirley Hilton, B.S.	Sumter
York	Sara G. Moore, B.S.	York
York	Betty Ponder, 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

<i>County</i>	<i>Name</i>	<i>Post Office</i>
Anderson	Cynthia Williford, B.S.	Anderson
Bamberg	Lillie M. Jamerson, B.S.	Bamberg
Barnwell	Edna K. DuPree, B.S.	Barnwell
Beaufort	Annie J. Johnson, B.S.	Beaufort
Berkeley	Naomi B. Johnson, B.S.	Moncks Corner
Charleston	Albertha V. DeVeaux	Charleston
Cherokee	Martha O. Reid, B.S.	Gaffney
Chester	Alice Rembert, B.S.	Chester
Chesterfield	Johnsie Wilson, B.S.	Chesterfield
Clarendon	Queenie S. Heath, B.S.	Manning
Colleton	Gussie M. Goudlock, L.I.	Walterboro
Darlington	Hestella V. Broadwater, B.S.	Darlington
Dorchester	Bernice House, B.S.	St. George
Fairfield	Wilhelmina P. Johnson, B.S.	Winnsboro
Florence	Lillian W. Brown, L.I.	Florence
Georgetown	Rosa G. Gadson, L.I.	Georgetown
Greenville	Willie B. Simpson, B.S.	Greenville
Greenwood	Madge W. Hardy, B.S.	Greenwood
Hampton	Leona B. Mungin, B.S.	Hampton
Horry	Marian Watson, B.S.	Conway
Kershaw	Adell W. Watson, 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 M. Whitney, B.S.	Union
Williamsburg	Eva G. Lawrence, B.S.	Salters Depot
York	Cornelia W. Mills, B.S.	York
Berkeley	Altamese B. Pough, B.S.	Moncks Corner
	Assistant Negro Home Demonstration Agent	
Colleton	Janie Lancaster, B.S.	Walterboro
	Assistant Negro Home Demonstration Agent	
Florence	Hattie P. Lowery, B.S.	Florence
	Assistant Negro Home Demonstration Agent	
Richland	Leota Mae Sherard, B.S.	Columbia
	Assistant Negro Home Demonstration Agent	
Spartanburg	Coy Smith, B.S.	Spartanburg
	Assistant Negro Home Demonstration Agent	
York	Johnnie G. Sloan, B.S.	York
	Assistant Negro Home Demonstration Agent	

LIVESTOCK SANITARY WORK COLUMBIA, SOUTH CAROLINA

Director and State Veterinarian

R. W. Carter, D.V.M. Columbia

State Assistant Director

R. A. Mays, B.Sc., D.V.M. Columbia

Federal Assistant Director

Ross W. Gerding, B.Sc., D.V.M. Columbia

Assistant State Veterinarians

O. E. Baker, D.V.M. Columbia

Bert W. Bierer, V.M.D. Columbia

W. R. Chastain, D.V.M. Columbia

I. R. Cooper, Sr., D.V.M.	-----	Allendale
S. L. Moore, D.V.M.	-----	Clemson
Jack Scott, D.V.M.	-----	Hemingway
John B. Thomas, D.V.M.	-----	Columbia
C. L. Vickers, D.V.M.	-----	Columbia
S. M. Witherspoon, B.Sc., D.V.M.	-----	Marion

State Laboratory Assistants

Wilma M. Campbell	-----	Columbia
Helen B. Motley	-----	Columbia

State Livestock Law Enforcement Officers

James C. Epps, Jr., B.Sc.	-----	Columbia
A. T. Gilpin, B.Sc.	-----	Columbia
Charles E. Grant, B.Sc.	-----	Columbia

State Livestock Inspectors

Jake P. Ginn, Jr., B.Sc.	-----	Varnville
DeWitt W. Maxey	-----	Piedmont
P. M. Snowden	-----	Hemingway

Federal Veterinary Livestock Inspectors

G. A. Baker, D.V.M.	-----	Columbia
M. L. Gunnels, Jr., D.V.M.	-----	Walterboro
Wm. S. Jackson, D.V.M.	-----	Orangeburg
J. M. Love, D.V.M.	-----	Chester
Herbert Racoff, D.V.M.	-----	Columbia
K. N. Wiser, D.V.M.	-----	Greer

Federal Serologist

Emily G. Fullwood, B.Sc.	-----	Columbia
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Federal Laboratory Assistants

Evelyn M. Goff	-----	Columbia
Bernard B. Oswald	-----	Columbia
Roy D. Wingard	-----	Columbia

Federal Livestock Inspectors

J. W. Crowder, Jr.	-----	Chester
J. L. Morris	-----	Lake City
Jas. A. Ritter, Jr.	-----	Walterboro
John G. Smith	-----	Orangeburg

Federal Quarantine Enforcement Officer

Thomas R. Davis	-----	Clinton
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State-Federal Accredited Veterinarians

W. W. Adams, D.V.M.	-----	Clinton
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
David L. Brown, Jr., D.V.M.	-----	Florence
T. E. Brown, D.V.M.	-----	Spartanburg
J. E. Burch, D.V.M.	-----	Lake City
Stuart E. Burnett, D.V.M.	-----	Sumter
T. L. Burriss, D.V.M.	-----	Anderson
W. M. Burriss, D.V.M.	-----	Anderson
W. S. Carr, D.V.M.	-----	Aiken
F. P. Caughman, Sr., B.Sc., 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
F. E. Ducey, Jr., D.V.M.	Ridgeland
Will T. Dunn, D.V.M.	Greenville
H. P. Dyches, D.V.M.	Aiken
Wm. S. Fairey, 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
J. G. Gibson, D.V.M.	Florence
W. H. Giddens, D.V.M.	Saluda
W. H. Gilmore, Jr., D.V.M.	Columbia
L. H. Hardy, D.V.M.	Camden
C. C. Harmon, B.Sc., D.V.M.	Columbia
J. W. Hawk, D.V.M.	North Augusta
Carlos Helms, D.V.M.	Darlington
Wm. S. Hicks, D.V.M.	Columbia
C. R. Hinson, D.V.M.	Bennettsville
R. R. Hirshburg, D.V.M.	Sumter
T. P. Hoffmeyer, D.V.M.	Florence
L. J. Hogan, D.V.M.	Charleston
E. G. Horres, D.V.M.	Charleston
E. B. Hubster, D.V.M.	Walterboro
James F. Hughey, D.V.M.	Spartanburg
Kenneth L. Huggins, D.V.M.	Marion
James W. Hutto, D.V.M.	Holly Hill
C. V. Jameson, D.V.M.	Anderson
Preston B. Jones, D.V.M.	Anderson
Herbert A. Justus, D.V.M.	Spartanburg
S. J. Kellett, Jr., D.V.M.	Seneca
R. H. Kemmerlin, D.V.M.	Bamberg
H. B. Kinard, Jr., D.V.M.	Greenwood
H. W. Kinard, D.V.M.	Bamberg
F. E. Kitchen, D.V.M. (Retired)	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., D.V.M.	Hartsville
J. S. Lide, D.V.M.	Newberry
H. M. Lightsey, Jr., D.V.M.	Allendale
C. B. Lowman, D.V.M.	Newberry
C. J. Maddox, D.V.M.	Sumter
W. K. Magill, B.Sc., D.V.M.	Chester
W. H. Matthews, D.V.M.	Rock Hill
W. D. Mayfield, D.V.M.	Laurens
A. S. Moore, D.V.M.	Walterboro
G. E. H. Moore, D.V.M.	Walterboro
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. R. McMaster, D.V.M.	Rock Hill
E. E. Nissen, D.V.M.	Marion
A. B. Pittman, D.V.M.	Springfield
Bruce G. Pratt, D.V.M.	Beaufort
Petro Pshyk, D.V.M.	Summerville
G. D. Radford, D.V.M.	Beaufort
Paul E. Ramsay, D.V.M.	Spartanburg
W. F. Rawlinson, D.V.M.	Manning

T. M. Rhodes, D.V.M.	Charleston Heights
E. A. Richardson, D.V.M.	Seneca
H. E. Riddle, D.V.M.	Greenville
L. D. Rodgers, D.V.M.	Greenwood
R. R. Salley, D.V.M.	Orangeburg
W. Everette Salley, D.V.M.	Orangeburg
W. H. Shirer, D.V.M.	Georgetown
T. J. Shirley, Jr., D.V.M.	Pendleton
F. L. Shuler, D.V.M.	St. George
J. O. Shuler, D.V.M.	Mt. Pleasant
G. K. Smith, D.V.M.	Spartanburg
G. M. Smith, D.V.M.	Greenville
J. S. Smith, D.V.M.	Conway
D. H. Spearman, D.V.M.	Greenville
J. D. Stith, D.V.M.	Hartsville
Otto M. Strock, D.V.M.	Charleston
E. D. Stuart, D.V.M.	Greenville
Pat Suber, D.V.M.	Columbia
H. L. Sutherland, D.V.M.	Union
Robert C. Thrasher, D.V.M.	Greenville
E. R. VandeGrift, Jr., D.V.M.	Columbia
U. E. Whatley, D.V.M.	Dillon
W. E. White, D.V.M.	Cheraw
J. M. Williams, D.V.M.	Moncks Corner
R. L. Willis, D.V.M.	Charleston
R. E. Wright, D.V.M.	Greer

THE SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION

With a nucleus of research planning at Clemson, the South Carolina Agricultural Experiment Station has 17 departments and two special units located here. Each department conducts specialized research in its own field, and its findings are made known to the public through special publications and news releases. Six branch experiment stations operate as separate units in different sections of the State, under the direction and organization of the Clemson Station.

More effective agricultural production through research is the goal of the Station. The farmer's work can be made easier, cheaper, and more profitable by research to learn what effect current farmer practice has on the financial return he gets. Newer methods not yet put into use by farmers are also studied, with appropriate release of findings.

Opportunity to work and gain experience is offered to a limited number of students by some departments where research is conducted. Laboratories are open to inspection by students, farmers and others. The public is invited to write to the Station Director to request information about any specific problem encountered in agriculture. A full report of work and expenditures of the S. C. Agricultural Experiment Station is published annually, and may be obtained free of

charge. Other publications of the Station are also free, and will be sent upon request.

Research at the Station embraces problems peculiar to the Southeast as well as to the State, and results receive nationwide publication through USDA releases. The Station's work is financed by State appropriation, Federal appropriation, grants from commercial companies and foundations, and returns from products grown for research.

FERTILIZER INSPECTION AND ANALYSIS

The South Carolina Fertilizer Law, last revised and effective July 1, 1954, is administered by the Fertilizer Inspection and Analysis Department, School of Agriculture, Clemson, South Carolina. The law is designed to protect amply the purchasers of commercial fertilizer, manufacturers and dealers in fertilizers. The secretary of the Board of Control, who is also the director, along with ten part-time fertilizer inspectors collects annually approximately 6,000 fertilizer samples and 700 insecticide samples. In addition to procuring official samples for analysis to see that the guarantees are met, the department inspects for proper bag printing and weights of fertilizers. It also makes analyses of insecticides, unexploited sources of water, minerals, and parts of human bodies when poisons are suspected as the cause of death. Normally, the percentage of fertilizer samples deficient ranges from 4 to 5%, while the refunds collected on account of the deficiencies amount to \$14,000.00 to \$18,000.00 annually. In the case of a deficiency, the fertilizer manufacturer is penalized three times the value of the shortage in nitrogen and four times the value of the shortage for phosphoric acid and potash. All fertilizers are required to be registered with the department prior to compounding or offering same for sale. Only fertilizers containing 20 units of plant food and conforming to the approved ratios and minimum analysis grades are permitted to be registered and sold in South Carolina.

THE CLEMSON COLLEGE EXTENSION SERVICE

The Clemson College Extension Service is a branch of the Clemson Agricultural College, and is a cooperative service supported by the counties, the State and the Federal govern-

ment. The Extension Service is responsible for conducting, with all people of South Carolina, the cooperative educational and demonstration programs in agriculture and home economics of Clemson College and the United States Department of Agriculture.

The function of the Extension Service is to make available to farmers, homemakers and rural boys and girls, through on-the-farm service, demonstrations, meetings, newspaper articles, publications, radio and television broadcasts and other suitable methods, the results of research and successful farm and home experience. It also assists, through interpretation, practical demonstrations and otherwise, in applying and using this information to improve their farms, farm homes and communities, to the end that they may build a safe, sound and progressive rural life and agriculture.

The annual plan of agricultural and home economics extension work is developed and carried out with close cooperation between the Extension Service and the farm and home leadership of the State, the counties, and the rural communities and neighborhoods.

The Staff of Agricultural Extension Workers includes the director, an associate director, three district supervisory agents, an administrative assistant, an assistant in farm and home development, 46 county agents — one in each county, 15 associate county agents, 72 assistant county agents, and 46 agricultural specialists in agricultural economics, agricultural engineering, agronomy, boys' 4-H club work, dairying, crop insects and diseases, cotton ginning, forestry, horticulture, livestock, marketing, poultry and turkeys, publications, soil conservation and visual instruction.

The Extension Home Demonstration Staff includes a state home demonstration agent, three associate district supervisory agents, 46 county home demonstration agents — one in each county, 36 assistant home demonstration agents, and 8 specialists in clothing, family life, food production and conservation, girls' 4-H club work, home management, marketing and nutrition.

Negro Extension Workers include a state leader and two Negro 4-H club agents, a state leader and one assistant state leader for Negro home demonstration work, and a Negro agricultural agent-at-large, who have headquarters at the State

College at Orangeburg. Negro county extension workers include 33 Negro agricultural agents, 8 assistant Negro agricultural agents, 33 Negro home demonstration agents, and 6 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 Sandhill Experiment Station. This laboratory is prepared to assist veterinarians and owners of livestock and poultry in making post mortem laboratory examinations and bacteriological and pathological studies to aid in the diagnosis of diseases. If necessary, sufficient equipment can be sent into the field to diagnose and control disease on the spot.

The administrative office is located in the above building. Adequate records and identification of livestock are kept. A staff of veterinarians works from the Columbia office, and field veterinarians are located in various sections of the State. 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 State-Federal Accredited Veterinarians and assist in the eradication of infectious diseases of livestock. At present there are 106 veterinarians so commis-

sioned, and their locations are such that the Clemson College Livestock Sanitary Department is in a position to control and eradicate diseases promptly and completely in all sections of the State.

This department is required by legislative enactment and supported by legislative appropriation.

THE SOUTH CAROLINA STATE CROP PEST COMMISSION

The act creating the State Crop Pest Commission was passed by the legislature in 1912. According to the act, five members of the Board of Trustees of Clemson College shall compose the Commission.

The purpose of the Commission is to prevent, as far as possible, the introduction into South Carolina of injurious plant pests and to limit the spread of those already within the state. The Commission is also charged with the enforcement of the Bee Disease Act and the South Carolina Economic Poison Law.

The work is performed by the promulgation and enforcement of certain rules and regulations which in the judgment of the Commission are necessary to protect the agricultural interest of South Carolina. The enforcement of the regulations is the responsibility of the State Entomologist, State Plant Pathologist and their agents.

THE ENGINEERING EXPERIMENT STATION

The Engineering Experiment Station of the Clemson Agricultural College was established by the Board of Trustees in July 1924. Its purpose is to 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 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
1958-1959**

GRADUATES OF 1958

BACHELOR'S DEGREES CONFERRED JANUARY 25, 1958

SCHOOL OF AGRICULTURE

BACHELOR OF SCIENCE DEGREE

Agriculture—Agricultural Economics Major

Robert Eugene Batten _____ Wedgefield Adrian Lewis Padgett _____ Aiken
John Frank Murphree _____ Six Mile Laurice Furnifold Rhem III — Georgetown

Agriculture—Animal Husbandry Major

Herman Brunson Turner _____ Mayesville

Agriculture—Dairy Major

William Capers Cook _____ Norris Jack Randolph Roberts _____ Greenville
John Francis Scurry, Jr. _____ Chappells

Agriculture—Horticulture Major

Willie Lee Corley _____ Lexington

Agriculture—Poultry Major

Joseph Marion Craddock _____ Fairfax

Agricultural Education

*Adger Bowman Carroll _____ Westminster Benny Ray Friar _____ Florence
William Daniel Dantzler, Jr. — Holly Hill Lennie S. Middleton, Jr. _____ Jefferson
James Carlisle Foster, Jr. _____ Inman Charles Nelson Stack _____ Pinewood
Ruby Allen Zorn, Jr. _____ Denmark

SCHOOL OF ARTS AND SCIENCES

BACHELOR OF SCIENCE DEGREE

Arts and Sciences

Maynard John Higby _____ Clemson Thomas Eugene Hutchinson _____ York
Robert Boyce Huey, Jr. _____ Lancaster John Benjamin Kissam _____ Georgetown
Julian Marshall Smith, Jr. _____ Anderson

Education

Edwin Dalton Rivers _____ Chesterfield Thomas Murl Sease, Jr. _____ Clinton
Donald Albert Shealy _____ Chester

Industrial Education

William Harold Cochran _____ Pickens Stike Demetrou Paradeses _____ Columbia
Virgil Lee Miller _____ Straubville, N. Dak. David Jefferson Rogers _____ Chesnee
Sidney Frederick Thompson _____ Conway

Industrial Management

*Treze Jennings Beasley _____ Bishopville *William Grady Johnson, Jr. _____
Richard Arte Carter, Jr. — Savannah, Ga. North Wilkesboro, N. C.
Benjamin Hood Crowder _____ Spartanburg Grady Roy Jones _____ Belton
William Howard Davis _____ Charleston Wilton Craig Kennedy, Jr. — Spartanburg
Paul Francois DuCom, Jr. _____ Sumter William Fred McGregor, Jr. _____ Anderson
James Danny Fisher _____ Belton Jack Olin Talley _____ Charlotte, N. C.
Henry Robert Fulbright _____ Piedmont William Douglas West _____ Greenville
Fred Edward Wynn _____ Taylors

Pre-Medicine

Wade Henry Crawley — Forest City, N. C.

*With honor.

SCHOOL OF ENGINEERING

BACHELOR OF SCIENCE DEGREE

Agricultural Engineering(Agricultural Engineering is jointly administered by the
School of Agriculture and the School of Engineering.)William Pater Gladden _____ Richburg Dan McClure McGill _____ Anderson
James King Merck _____ Bishopville*Architectural Engineering*

Elon Cecil Mills, Jr. _____ Columbia Ryan Dunnahoo Mitchell, Jr. _____ Belton

Architecture

Howard Graham Love _____ Columbia

*Ceramic Engineering*James Earle Barton _____ Taylors Robert Lester Hall, Sr. _____ Ninety Six
**Everett Francis Bodendorf _____ Aiken Robert Eugene Jackson _____ Lancaster
William David Gasque _____ Columbia Oren Jackson Robinette, Jr. _____ Pacolet
William Ray Warren _____ Chesnee*Civil Engineering*Robert Manly Bennett _____ Greer William J. Rast _____ Greenville
Grover Clyde Bowman _____ Liberty George William Seel, Jr. _____ North Charleston
William Floyd Holliday _____ Piedmont James Welborn Smith _____ Bishopville
James Frederick Mentz _____ Anderson
Lindenhurst, N. Y. Frank Harold Wheless _____ Timmons ville*Electrical Engineering***Noel Arthur Stanley Gantick _____ Claude Jefferson Reece, Jr. _____
Willimantic, Conn. Waynesville, N. C.
Joseph Michael Jones _____ South Bend, Ind. Howard Melvin Rifkind _____ Brooklyn, N. Y.
Leon McCants Park _____ Winnsboro Andrew Brady Rye _____ Columbia
*Fred D. Rampey _____ Piedmont Harry Garfield Tritapoe _____ Graniteville*Industrial Engineering*

Harold Frank Thompson _____ Charleston Heights

*Mechanical Engineering**James Edward Crawley _____ *Rodney Orr Lohman _____
Forest City, N. C. Hendersonville, N. C.
Ralph Jennings Duckworth, Jr. _____ Edward Buist Mitchell _____ Charleston
Brevard, N. C. Charles Eric Vuksta _____ Bethlehem, Pa.
Charles Edwin Herring _____ Anderson Jerry Wigington _____ Salem

BACHELOR OF ARCHITECTURE DEGREE

Eleftherios Phillip Pappas _____ Jacksonville, Fla.

SCHOOL OF TEXTILES

BACHELOR OF SCIENCE DEGREE

Textile Chemistry

William Marr Campbell, Jr. _____ Rock Hill

*Textile Engineering*Jerry Edward Atkins _____ Marion, N. C. Claude Dickinson Kirkland, Jr. _____ Georgetown
Robert Carl Franzen _____ Joanna Samuel Eugene Shank _____ Mullins
*Sumpter Dexter Smith _____ Spartanburg*Textile Manufacturing*James Wilson Ashcraft _____ Abbeville Richard Kenneth Hall _____ Pendleton
Charles Furman Bagwell _____ Easley Alfred Casburn Johnson _____ Marion
Donald Luther Bunton _____ Pelzer Ruthford Ray Jones _____ Moncks Corner
Walter Mack Burriss _____ Anderson Ervin Lee Koone _____ Greenwood
George William Campbell, Sr. _____ Anderson James Wyatt Lewis III _____ Spartanburg
Tommy Milton Folk, Jr. _____ Newberry Wilson Reeves Lewis _____ Moncks Corner
Robert Ernest Foster, Jr. _____ Union *Louis Thompson Runge _____ Greenville
Thomas Radcliffe Frierson _____
Morristown, Tenn. William Austin Rush _____ Greenwood
William Pinkney Geer _____ Rutherfordton, N. C. William Harold Smith _____ Spartanburg
Lawson A. Hall, Jr. _____ Greenville Michael Henry Thompson _____ Pauline
Shady Hampton Young _____ Timmons ville Lawrence Lonnie Whitfield _____ Anderson

*With honor.

**With high honor.

MASTER'S DEGREES CONFERRED JANUARY 25, 1958

SCHOOL OF AGRICULTURE

MASTER OF SCIENCE DEGREE

Agricultural Economics

Robert Lawrence Addison, Jr. _____ Cottageville Billy Ray Skelton _____ Columbia

Agricultural Education

Manuel Padgette Black _____ Orangeburg Kenneth O'Dell Couch _____ Fairforest
Benjamin Earl Blackwell _____ Duncan James Etsel Hopper _____ Clearwater
Joe Raymond Meredith _____ Edgefield

Animal Husbandry

John Alexander Salters, Jr. _____ Trio

Entomology

Henry Derrick Blocker _____ Walterboro Samuel Guy Turnipseed _____ Clemson

MASTER OF AGRICULTURAL EDUCATION DEGREE

Rufus Clifton Alexander _____ Six Mile

SCHOOL OF ARTS AND SCIENCES

MASTER OF SCIENCE DEGREE

Chemistry

Clarence Gantt Westendorff, Jr. _____ Oak Ridge, Tenn.

Industrial Education

Alfred Franklin Newton _____ Clemson

SCHOOL OF ENGINEERING

MASTER OF SCIENCE DEGREE

Ceramic Engineering

Joseph Franklin Edwards _____ Saluda

BACHELOR'S DEGREES CONFERRED JUNE 1, 1958

SCHOOL OF AGRICULTURE

BACHELOR OF SCIENCE DEGREE

Agriculture—Agricultural Economics Major

Leslie Donald Campbell _____ Belton Theodore August Murray _____ Eatontown, N. J.
Donald Keith Fraley _____ Florence *William Bryan Richey, Jr. _____ Greenville
LeRoy Cecil Grainger _____ Conway Ervin Robert Rowell, Jr. _____ Trio
J. D. Kay _____ Seneca Norville Bridges Spearman _____ Greenville

Agriculture—Agronomy Major

Bruce Weldon Byrd, Jr. _____ Hartsville William James Spiers, Jr. _____ Cameron
Donald Richard Gowan _____ Inman *Robert Lorin Stephens _____ Dillon

Agriculture—Animal Husbandry Major

Philip Ray Fidler _____ Sumter Robert MacLauchlin Lewis _____ Myrtle Beach
Fredrick Crittenden Gore _____ Jupiter, Fla. William Charles Weeks _____ Williston, Fla.

Agriculture—Dairy Major

John Patton Beason _____ Columbia Lanny W. Moore _____ Bradley
Morris Lindsay Bond _____ Columbia *George Wythe Powell _____ Williston
Kenneth James Locher _____ Fair Lawn, N. J. Alphonse Edgar Soudan, Jr. _____ Glenview, Ill.
*James Aaron Trammel _____ Woodruff

*With honor.

Agriculture—Entomology Major

John Tyler King Clemson

*Agriculture—Horticulture Major*Feaster Bobby Ashley Aiken
James Marion Blackwell Inman
Robert Buford Dibble OrangeburgSamuel Edward Plowden Manning
***George Eugene Stembbridge Ellijay, Ga.
John Melvin Thomason Olanta*Agricultural Education*George Everett Ayer Fairfax
Donald Rogers Barnette Inman
David Rudolph Blakely Laurens
John Nils Herring Nichols
Paul Joseph Holmes BeaufortRalph Ligon King, Jr. Central
Hoyet Willard Page Nichols
John Wesley Parris Campobello
Prue Ernest Swords Liberty
John Earl Wall Chesnee

SCHOOL OF ARTS AND SCIENCES

BACHELOR OF SCIENCE DEGREE

*Arts and Sciences**Charles Merwin Branch Chesterfield
Jacqueline Broach Bruorton Georgetown
John Brawner Duffie SumterGeorge Augustus Moore Clearwater, Fla.
Jack Allen Robinson Easley
Mary Ellen Summey Anderson

*Patsy Ann Wertz Pendleton

*Chemistry*James Herman Alley Spartanburg
*Peter Hall Bryan Joliet, Ill.
Albert Bryan Bullington, Jr. Spartanburg
Robert Eugene Carter Rock HillKarl Marx Johnson, Jr. Bloomingdale, Ga.
John Richard Newton McColl
Bert Frank Van Southern, Jr.
Travelers Rest*Education*Julian Ryan Buddin Scranton
Addison Lee Crocker Gaffney
*Donald George Gallup Sumter
Sherry Hannah Holleman Seneca
Leon Tyrone Kaltenbach Clairton, Pa.
Joseph Smith Whisonant GaffneyElizabeth Ann Keith Pickens
William Max Nicholson Salem
Edward Tillman Sauls Cordova
Carroll Lee Stone Piedmont
Harold Hampton Wall Ridgeland*Industrial Education*

Roger Haskell Clemson

*Industrial Management*John Ernest Bradley Charleston Heights
Jack Lamar Brantley Ridgeland
Charles Alexander Bryan, Jr. Columbia
Arnold Barmon Carter Brevard, N. C.
Lawrence Clifton Chamblee, Jr. Anderson
Billy Gene Cleveland Anderson
Thomas Ray Darragh Greenwood
John William Felder Charleston
Thomas Lutrell Gale Baltimore, Md.
Gerald David Gillespie Anderson
John Dewey Jones Greenville
Richard James Marazza Bovard, Pa.
George Henry Maul III Charleston
***Kenneth Allen May Greenville
George Milton Moore Seneca
Ray Alexander Yeargin GreerJohn Lamar Moore Sandy Springs
Charles Hugh Patrick, Jr. Greenville
Henry Ellis Pearce, Jr. McColl
Richard Baxter Sanders, Jr. Ninety Six
Theodore Jervey Simons IV Charleston
Samuel Ballou Skinner III Conway
Albert Jordan Timmerman Hartsville
*Oron Trotter, Jr. Pickens
James Douglas Truesdel Kershaw
*John Emmett Walker, Jr. Sheffield, Ala.
Roland Weeks, Jr. Charleston
Joel Whitlock Wells Columbia
Charles Robert White
Roanoke Rapids, N. C.
Horace Randolph Wilson Anderson*Physics*

John Atkins Gilreath Greenville

***Mayrant Simons, Jr. Summerville

*Pre-Medicine*Fletcher Carl Derrick, Jr. Johnston
Joe Brannon Godfrey Woodruff
William Homer Jones Moncks CornerGeorge Warren III Hampton
Hubert Stanley Williamson
Charleston Heights

*With honor.

***With highest honor.

SCHOOL OF ENGINEERING

BACHELOR OF SCIENCE DEGREE

Agricultural Engineering

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

Ollie Andin Broadway, Jr.	Bishopville	Roy Howard Herron	Starr
James Franklin Dickson	York	Jerry Arthur Smoak	Yonges Island
George Long Hardy, Jr.	Johnston	George Pennell Venturella	Anderson
*Henry Lewis Young, Jr.		Hemingway	

Architecture

Henry David Mikkelsen	Florence, Ky.	John Edward Pinckney	Walterboro
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Ceramic Engineering

William Bankhead Anderson	Lowrys	Thomas Franklin Murray	Glens Falls, N. Y.
*Joseph Bernard Blandford, Jr.	Greenville	**John David Sease	Columbia
Robert Garrison Bowen	Gastonia, N. C.	Donald Gayle Shigley	Clemson
Hugh John Dowdle, Jr.	Columbia	John Fletcher Smoak, Jr.	Columbia
Hugh Preston Harbin	Anderson	John Hendrick Van Ravestein	Portland, Me.
Robert Anderson Keys, Jr.	Anderson		
Francis Mears Moore	Taylors		

Chemical Engineering

Joseph Francis Courtney	Asheville, N. C.	*Robert Melvin Mattison	Donalds
Edward John Elliott	Spartanburg	*Jerryl Howard Meyerson	Spartanburg
John Keitt Hane III	North Charleston	Arthur Richard Moisson	Greenville
**Nicolaos Konstantinou Harakas	Greenville	Clyde Wayne Mulkey	Greenwood
Wellington McColl Manning, Jr.	Clio	Horace Richard Priester, Jr.	Fairfax
William Dantzler Spence	Columbia	Charles Joseph Smith, Jr.	Charleston

Civil Engineering

*John Pinckney Clement III	Charleston	William Whitfield Miller V	Jacksonville, Fla.
Howard Conley Davenport	Gastonia, N. C.	Harry Lewis Parrish	Anderson
James Robert Fister	New Orleans, La.	Richard Douglas Pugh	Greer
Billy Riser Gibson	Newberry	Chester Quillian Reeves	Charleston
**Ernest Henry Haddock, Jr.	Kingstree	Duane Doyle Rennerfeldt	Oakland, Nebr.
Ralph Lackey Hardin, Jr.	Anderson	John Dewitt Spearman	North Charleston
Wade Hampton Hicks	Hartsville	Richard Alan Torbik	Scotch Plains, N. J.
Laddie Greene Hiller	Columbia	Clarence Robert Webb	Elkton, Md.
Wesley Augustus Millard	Sumter	William Wesley Wiggins	Arlington, Va.

Electrical Engineering

Leonard Hoyt Adams	Honea Path	William Hurston Hendrix, Jr.	Greenville
William Collier Barnes	Piedmont	Glenn Allen Hill	Timmonsville
Percival Whaley Baynard	Charleston	Guy Stanley Hill	Moncks Corner
Harry Edmund Bolick III	Kinards	William Milton Jones	Honea Path
Robert Singleton Dietrich Browne	Anderson	Donald Michael Justus	East Flat Rock, N. C.
George Haston Bumgardner III	Asheville, N. C.	Raymond Milton Litaker	Leaksville, N. C.
*Joseph Samuel Byrd	Ridge Spring	*Gerald Bethea Manning	Abbeville
*Paul Frederick Callaway	Dickinson, Texas	*James Frank Martin III	Laurens
William Jack Capell	Greenwood	Lawrence Welling Messervy, Jr.	Charleston
Loyd Brisco Chapman	Easley	Benjamin Lewis Montgomery	Spartanburg
*David Johnson Collins	Greer	*June Earle Painter	Gaffney
Gene Nesbitt Daniels	Hephzibah, Ga.	*Earle Joseph Shirlaw	Anderson
Norman Brooks Dill	Greer	Edward Lee Shokes	Charleston
Cornelius Allen Donelan, Jr.	Columbia	Robert Fletcher Shriner, Jr.	North Charleston
*Richard Leonard Fendley	Six Mile	Jeremiah Clarence Shumpert	North
*John Edward Gagnon	North Charleston	Jerry Lane Sinclair	Camden
**James Alexander Galloway	Georgetown	Boykin Curry Smith	Greenwood
William Rufus Galloway, Jr.	Georgetown	Gerald Norton Smith	Anderson
*Eugene Alexander Gilfillin	Greenville	Wiley Beryl Snavely, Jr.	Anderson
*William Anderson Hambright, Jr.	Blacksburg	George Stone Sweet, Jr.	Charlotte, N. C.
John Wallace Hart	Rock Hill	*William Poole Thomason	Laurens
Edmund Dantzler Whetsell	Bowman	**Douglas Howard Turner	Blacksburg

Industrial Engineering

Bernard Haynes Ewing, Jr.	Washington, D. C.	Worth Davis Kiger	Winston-Salem, N. C.
George William Faulkenberry	Lancaster	*Ralph Dale Kirk	Heath Springs
Forrest Ira Kelly, Jr.	Sumter	Bruce Franklin Martin	Lancaster
Charles Kurtz Segal	Rock Hill	James Parker Martin	Williamston

*With honor.

**With high honor.

Mechanical Engineering

Robert Thomas Basha _____ Mt. Pleasant	*James Wyatt Hampton _____ Belton
Guy Patrick Beatty, Jr. _____ Lakeland, Fla.	*Albert Leslie Harrell, Jr. _____ Florence
*Thomas Jesse Bethea III _____ Eutawville	Norman Paul Jatz _____ Clemson
George August Bohlen _____ Charleston	**Ben Landrum Johnson _____ Greenville
John Davis Braid _____ Charleston	Henry McLees Jumper _____ Gastonia, N. C.
John Thomas Burnett, Jr. _____ Greenwood	Willie Theron Kimbrell _____ Clemson
William Thomas Clary _____ Fort Lawn	*Tommy Little _____ Greenville
**Laurence Neuman Connor, Jr. _____ Barnwell	Wiley Stokes Martin _____ Sumter
**Henry Franklyn Cooper, Jr. _____ North Augusta	Donal Wallace Pace _____ Pickens
Charles Franklin Funk _____ Catawba	*George Fortson Rucker, Jr. _____ Edgefield
William Wayman Gilmer _____ Mt. Pleasant	John Norman Sherrill _____ Spindale, N. C.
James Simpson Glasscock _____ Catawba	Perry Paul Sifford _____ Stanley, N. C.
William Lawrence Glennon _____ Long Beach, N. Y.	Charles Marcus Vaughn _____ Greer
	Fred Earle West, Jr. _____ Camden
	**Theodore Kistler Wingard _____ Lexington
	**James Homer Yon, Jr. _____ Loris

BACHELOR OF ARCHITECTURE DEGREE

George DeWitt Auld, Jr. _____ Greenville	*John Randolph Jefferies _____ Charleston
Cecil Roudolph Hodge _____ Alcolu	*Richard Dillard Mitchell _____ Greenville

BACHELOR OF SCIENCE DEGREE AND
BACHELOR OF ARCHITECTURE DEGREE

Willis Douglas Corkern _____ Georgetown	Jose Uriel Quinones _____ Ponce, Puerto Rico
William Graham Faris _____ Ridgeland	*John Davis Rogers, Jr. _____ Easley
Randolph Kay McMillan _____ Spartanburg	Frederick Wayne Towers _____ Flat Rock, N. C.
James Eugene Matthews _____ Bishopville	Roger Williams Wilkerson III _____ Winnsboro

SCHOOL OF TEXTILES

BACHELOR OF SCIENCE DEGREE

Textile Chemistry

William Jonathan Allred _____ Belton	Leon LeGrand _____ Greenville
Melvin Arthur Caldwell _____ Rock Hill	Donald Hitchens Logue _____ Cheraw
Thomas Leslie Williams, Jr. _____ Rock Hill	

Textile Engineering

Michael Brinkley Gleaton _____ Columbia	William Lafayette Reed _____ Whitmire
Mack Hampton Jackson _____ Fairforest	Terry Farr Thruston _____ Greenville

Textile Manufacturing

Robert Elvin Black _____ Hartsville	Stanley Wallace Hancock _____ Ruby
Daniel Stephen Bratkowsky _____ Bridgeport, Conn.	Charles Loy Harrison _____ Greenwood
Duncan McNair Chapman, Jr. _____ Cheraw	Gilbert Allen Heath _____ Chester
Wyman Haskell Clark _____ Warrenville	Henry Edmond Jennings _____ Newberry
Ben Harrison Crowe, Jr. _____ Liberty	Bobby Milton Kimmell _____ Saluda
*William Hubert Dill _____ Landrum	H. Calbert Lee _____ Spartanburg
Bobby LaBruce Estridge _____ Kershaw	Joe Andrew Miller _____ Seneca
Edward Randolph Gasque _____ Greenwood	Conrad Mark Shook _____ Greenville
Joel McCrea Greene _____ Greenville	*David Lee Spearman _____ Pelzer
Charles Everett Griffin, Jr. _____ Forest City, N. C.	Francis Keith Starnes _____ Lancaster
	John Bernard Thomas _____ Easley

MASTER'S DEGREES CONFERRED JUNE 1, 1958

SCHOOL OF AGRICULTURE

MASTER OF SCIENCE DEGREE

Agricultural Economics

Jimmy Bryant Copeland _____ Clemson	Patrick Alvan Rush _____ Clemson
Edgar McKoy Huggins _____ Dillon	Nathaniel Alexander Wynn _____ Clemson

Agricultural Education

Ollie Weldon Lloyd _____ Edgefield	Sexton Columbus Vinson _____ Greenville
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*With honor.

**With high honor.

***With highest honor.

CATALOG OF CLEMSON COLLEGE

Animal Husbandry

James Riley Hill, Jr. _____ Abbeville

MASTER OF AGRICULTURAL EDUCATION DEGREE

Robert Joseph Vermillion _____ Fair Play

SCHOOL OF ARTS AND SCIENCES

MASTER OF SCIENCE DEGREE

Education

William Tertius Lander, Jr. ___ Williamston Mary Gill Olson _____ Clemson

Physics

Daniel Roane Cline _____ Toccoa, Ga.

SCHOOL OF ENGINEERING

MASTER OF SCIENCE DEGREE

Ceramic Engineering

Leon Benford Herring _____ Dillon Louis Howard Wright.. Staten Island, N. Y.

*Mechanical Engineering*James Karl Johnson, Jr. _____ Clemson John Paul Uldrick _____ Clemson
James Lawrence Pettigrew _____ Starr John Clifford Von Kaenel _____ Clemson

HONORARY DEGREES CONFERRED JUNE 1, 1958

DOCTOR OF HUMANITIES

Barnwell Rhett Turnipseed _____ Greenville

DOCTOR OF INDUSTRIES

James Lide Coker III _____ Hartsville

DOCTOR OF SCIENCE

George Robert Lunz _____ Wadmalaw Island James Napier McBride .. Jacksonville, Fla.
Ervin Leroy Peterson ___ Washington, D. C.

BACHELOR'S DEGREES CONFERRED AUGUST 9, 1958

SCHOOL OF AGRICULTURE

BACHELOR OF SCIENCE DEGREE

*Agriculture—Agronomy Major*Charles Morris Bergh _____ Clemson James Faucette Bullock, Jr. _____ Florence
Milton Earle Williamson _____ Donalds*Agriculture—Animal Husbandry Major*Ralph Malcolm Brooks _____ Pendleton Charles Arthur Segars _____ Oswego
Theodore Ward Hayes, Jr. _____ Sellers Frank Madison Way, Jr. _____ Charleston*Agriculture—Dairy Major*

Abner Crawford Sistare _____ Lancaster

Agriculture—Entomology Major

**Michael Bosnak _____ Chicago, Ill.

Agriculture—Horticulture Major

Richard Ervin Reynolds _____ Timmonsville

*Agricultural Education*Milford Creighton Baker _____ Harleyville Pinckney Cullen Cochran, Jr. _____ Manning
Thomas Clyde Childress _____ Laurens John Reuben Patterson _____ Campobello
James Broughton Petty _____ Chesnee

**With high honor.

SCHOOL OF ARTS AND SCIENCES

BACHELOR OF SCIENCE DEGREE

Arts and Sciences

Douglas Andrew Bowen _____ Piedmont William Joseph Neely, Jr. _____ Rock Hill
 Rudolph McArn Buffkin --- Heath Springs Robert Marshall Pruitt _____ Anderson

Education

Jack Lee Bush _____ Atlanta, Ga. Eugene Blease Seay _____ Greenville
 *Virginia Cole Skelton _____ Clemson

Industrial Education

Hugh Marvin Berry --- Charleston Heights

Industrial Management

Joe Thomas Branyon _____ Honea Path Arnold Graham Hyder, Jr. _____ Anderson
 Richard Edgar Burdette _____ Spartanburg Joseph Marchant _____ Harleyville
 Franklin Randolph Childers _____ Gaffney Thomas L. Mayfield _____ Anderson
 Gene Austin Dempsey _____ Lyman Charles Eddie Moncrief _____ Moultrie, Ga.
 John Joseph Downie _____ Vineland, N. J. Currie Byrd Spivey, Jr. --- North Augusta
 Benny Joe Hart _____ Greenville Jerry Thomas Steele _____ Rock Hill
 Ralph Heyward Varnadoe _____ Hardeeville

Physics

Carol Garvin Hughes III _____ Greenville

Pre-Medicine

John Keith Taylor _____ Lancaster

SCHOOL OF ENGINEERING

BACHELOR OF SCIENCE DEGREE

Agricultural Engineering

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

Harry Aubrey Jones _____ Nichols Edward Murray Redman --- Yonges Island
 Franklin Graham Pritchard _____ Sumter James Roswell Saunders, Jr.
 Wauchula, Fla.

Architectural Engineering

Pleasant G. Reynolds, Jr. _____ Sumter

Ceramic Engineering

James Paul Babb _____ Fountain Inn Edward Lining Manigault, Jr.
 Fairmont, W. Va.

Civil Engineering

Richard Arthur Ashmore _____ Greenville William Adam Keller III _____ Cameron
 Bruce Clinton Cannon _____ Clemson Arnaldo Jose Osio _____ Caracas, Venezuela
 Terrence Herman Wise _____ Greenville

Electrical Engineering

William Andrew Baker, Jr. - Timmons ville Johnny Lee Osteen _____ Greenville
 William Edward Carter _____ Rock Hill *Hugh Glenn Parris _____ Gaffney
 Howard Lee Clark, Jr. _____ Dillon William Stelljes Schwartz --- Charleston
 Jerome Francis Gahr _____ Anderson Frank Legrand Smith, Jr.
 North Charleston
 James John Hart _____ Rock Hill Herbert Calvin Smith, Jr. --- Greenwood
 Teddy Miles Johnson, Jr. _____ Sumter Harold Dale Tinsley _____ Hodges
 Ted Marshall Lynch _____ Anderson

Industrial Engineering

James Franklin Outlaw, Jr. --- Hartsville

Mechanical Engineering

Charles Edward Funderburk --- Greenwood George Frank Smith, Jr. _____ Greenville
 William Reynolds Paden, Jr. --- Clemson William Wirt Stover, Jr. _____ Greenville

BACHELOR OF ARCHITECTURE DEGREE

John Edward Pinckney _____ Walterboro

*With honor.

SCHOOL OF TEXTILES

BACHELOR OF SCIENCE DEGREE

Textile Manufacturing

Marion Ward Blackwelder _____	Fort Mill	William Charlton Kirkpatrick, Jr.	
Zane Velton Garrett _____	Walhalla		Richburg
Hugh Arnold Graham _____	Toccoa, Ga.	William Morris Landers _____	Asheville, N. C.
Thomas Alton Grant _____	Ware Shoals	William Martin McCormic _____	Sumter
	*Kenneth Pruitt _____	Glendale	

MASTER'S DEGREES CONFERRED AUGUST 9, 1958

SCHOOL OF AGRICULTURE

MASTER OF SCIENCE DEGREE

Agricultural Economics

William Fred Chapman, Jr. _____	Clemson	John Langston Madden _____	Greenville
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Dairy

James Calvin Simmons _____ Brooksville, Miss.

Zoology

Harold Carl Ballew _____ Greenville

MASTER OF AGRICULTURAL EDUCATION DEGREE

Frank Hendricks Chastain _____ Central

SCHOOL OF ARTS AND SCIENCES

MASTER OF SCIENCE DEGREE

Chemistry

Vasco Gomes Camacho _____	New Bedford, Mass.	Arthur Wayne Garrison _____	Taylors
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Education

Curtis Everett Bishop _____	Honea Path	Susie Daniel Lee _____	Miami, Fla.
	Ernest Day Palmer _____	Pickens	

Physics

Thomas Frank Collins _____ Macon, Ga.

GRADUATES OF 1958 BY MAJOR COURSES

SCHOOL OF AGRICULTURE	72
Agricultural Economics	12
Agricultural Education	22
Agronomy	7
Animal Husbandry	9
Dairy	11
Entomology	2
Horticulture	8
Poultry	1
SCHOOL OF ARTS AND SCIENCES	114
Arts and Sciences	16
Chemistry	7
Education	17
Industrial Education	7
Industrial Management	57
Physics	3
Pre-Medicine	7

*With honor.

SCHOOL OF ENGINEERING (INCLUDING DOUBLE MAJORS)	213
Agricultural Engineering	14
Architectural Engineering	3
Architecture (4-year)	2
Architecture (5-year)	5*
Architecture (4-year) and Architecture (5-year)	9
Ceramic Engineering	21
Chemical Engineering	12
Civil Engineering	32
Electrical Engineering	65**
Industrial Engineering	10
Mechanical Engineering	40
SCHOOL OF TEXTILES	66
Textile Chemistry	6
Textile Engineering	9
Textile Manufacturing	51
TOTAL GRADUATES OF 1958 (EXCLUDING DUPLICATES)	459

*Includes three students who were formerly graduated in Architecture, 4-year; also, one student formerly graduated in Entomology.

**Includes one student who was formerly graduated in Civil Engineering; also, one student formerly graduated in Mechanical Engineering.

TOTAL GRADUATES BY MAJOR COURSES, 1896-1958

<i>Major Course</i>	<i>Total</i>	<i>Major Course</i>	<i>Total</i>
Agriculture	244	Engineering Industrial	
Agriculture and Animal		Education	70
Industry	80	Entomology	145
Agriculture and Chemistry ...	69	Forestry	8
Agricultural Chemistry	102	General Science	360
Agricultural Economics	224	Horticulture	382
Agricultural Education	246	Industrial Education	245
Agricultural Engineering	386	Industrial Engineering	10
Agronomy	682	Industrial Management	79
Animal Husbandry	667	Industrial Physics	56
Architectural Engineering	118	Mechanical Engineering	987
Architecture	394	Mechanical and Electrical	
Arts and Sciences	466	Engineering	489
Bachelor of Science	3	Physics	3
Botany	12	Poultry	28
Ceramic Engineering	54	Pre-Medicine	215
Chemical Engineering	141	Soils	9
Chemistry	294	Textile Chemistry	247
Chemistry and Geology	11	Textile Engineering	1,040
Chemistry-Engineering	43	Textile Industrial Education	85
Civil Engineering	993	Textile Manufacturing	975
Dairy	326	Veterinary Science	16
Education	134	Vocational Agricultural	
Electrical Engineering	1,177	Education	729
		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	17
Architecture, four-year, and Mechanical Engineering	1
Arts and Sciences and Agricultural Economics	1
Chemical Engineering and Chemistry and Chemistry-Engineering	3
Chemical Engineering and Chemistry-Engineering	1
Chemistry and Chemical Engineering	1
Chemistry and Chemistry-Engineering	1
Chemistry and General Science	1
Chemistry and Industrial Physics	1
Chemistry and Agricultural Chemistry	1
Civil Engineering and Chemistry and Geology	2
Civil Engineering and Industrial Physics	1
Civil Engineering and Electrical Engineering	1
Civil Engineering and Mechanical Engineering	1
Electrical Engineering and Industrial Physics	1
Electrical Engineering and Mechanical Engineering	17
Electrical Engineering and Textile Engineering	1
Entomology and Architecture, five-year	1
Entomology and Pre-Medicine	1
General Science and Education	1
General Science and Electrical Engineering	1
Horticulture and Agronomy	1
Horticulture and Architectural Engineering	1
Industrial Education and Electrical Engineering	1
Mechanical Engineering and Textile Engineering	4
Poultry and Vocational Agricultural Education	1
Pre-Medicine and Textile Chemistry	2
Textile Chemistry and Textile Manufacturing	1
Textile Engineering and Civil Engineering	1
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 1958	13,191

LIST OF STUDENTS IN NINE-WEEKS SUMMER TERM AND IN SPECIAL PROGRAMS, 1958 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, 1958, are indicated by an asterisk (*).

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Abbott, C. A. (CS)	Seneca	Adams, B. S. (G)	Williamston
Abell, F. E. (CS)	Lowrys	Adams, H. A. (CS)*	Bamberg
Abercrombie, J. J. (CS)	Gray Court	Adams, J. R. (CS)	Greenville
Abercrombie, J. W. (Unc)	Hemingway	Addis, L. C. (CS)	Easley
Able, M. B. (CS)	Clemson	Agro, C. J. (CS)	White Plains, N. Y.
Ables, H. F. (CS)	Seneca	Ahrens, L. H. (CS)	Aiken

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Aiken, W. R. (CS)	Anderson	Black, J. W. (CS)*	Swansea
Alexander, F. (CS)	Seneca	Black, P. B. (Unc)	Anderson
Alexander, M. L. (Unc)	Morgan City, La.	Black, R. H. (CS)	Liberty
Allen, J. P. (Unc)	Anderson	Black, W. W. (CS)*	Batesburg
Allen, W. E. (CS)	Latta	Blackburn, K. F. (CS)	Greer
Alley, J. H. (CS)	Spartanburg	Blackburn, R. R. (G)	Walhalla
Allgood, H. R. (Unc)	Pendleton	Blackmon, J. A. (CS)*	Kershaw
Allgood, J. E. (CS)	Pendleton	Blackmon, J. B. (CS)	Hartsville
Allison, I. S. (CS)*	Horse Shoe, N. C.	Blackwell, R. J. (G)	Tigerville
Allred, J. H. (CS)	Sanford, Fla.	Blair, R. H. (CS)	Howey-in-the-Hills, Fla.
Altman, J. D. (G)	Anderson	Blakely, L. J. (G)	Easley
Anderson, B. W. (CS)	Timmonsville	Blakeney, C. R. (CS)	Kershaw
Anderson, G. M. (CS)	Greenville	Blakeney, W. R. (CS)	Hartsville
Anderson, N. H. (CS)	Greenville	Blanchard, J. E. (Unc)	Sullivan's Island
Anderson, P. P. (CS)	Tamassee	Blanton, J. A. (CS)	Forest City, N. C.
Anderson, T. C. (CS)	Greenwood	Blanton, R. L. (G)	Seneca
Anderson, W. T. (CS)	Greenwood	Bludau, C. J. E. (CS)	Taylors
Anthony, F. H. (CS)*	Pendleton	Bobo, B. A. (CS)	Anderson
Arafah, A. K. (CS)	Damascus, Syria	Bofill, J. J. (CS)	Havana, Cuba
Arguelles, F. A. (CS)*	Havana, Cuba	Boggs, T. L. (CS)	Honea Path
Armstrong, W. H. (CS)	Honea Path	Boles, R. H. (CS)	Lexington
Ashe, J. B. (CS)	Rock Hill	Boling, B. T. (CS)	Greenville
Ashmore, R. A. (CS)	Greenville	Bolt, C. H. (CS)	Laurens
Atkinson, D. J. (CS)	Marion	Bolton, J. L. (CS)	Greenwood
Atria, J. A. (CS)	Sumter	Booker, E. P. (CS)	Clemson
Austell, R. M. (CS)	Blacksburg	Bordenkircher, F. E. (CS)	Mount Sterling, Ill.
Austin, W. R. (CS)	Simpsonville	Bosley, J. E. (CS)	Beaufort
Axmann, R. F. (CS)	Anderson	Bosnak, M. (CS)	Chicago, Ill.
Aydlette, D. L. (CS)	Charleston	Bostwick, W. M. (CS)	Charleston
Ayers, J. K. (CS)	Piedmont	Bowen, B. C. (CS)	Clemson
Ayers, J. L. (CS)	Piedmont	Bowen, D. A. (CS)	Piedmont
Ayers, T. Z. (Unc)	Florence	Brackett, H. V. (CS)	Chimney Rock, N. C.
Babb, J. P. (CS)	Fountain Inn	Bradberry, C. A. (CS)	Abbeville
Babb, W. H. (CS)	Fountain Inn	Bradfield, C. A. (CS)	Dillon
Bagwell, M. W. (Unc)	Piedmont	Bradley, T. J. (G)	Savannah, Ga.
Bagwell, P. A. (Unc)	Piedmont	Branyon, J. T. (CS)	Honea Path
Bailes, J. H. (CS)	Union	Bray, T. P. (CS)	Greenville
Bailey, D. L. (CS)*	Decatur, Ga.	Breazeale, L. E. (Unc)	Westminster
Bailey, R. L. (CS)	Barnwell	Brezeale, K. A. (Unc)	Greer
Baker, J. C. (CS)	Warrenville	Bridges, B. K. (CS)	Greenville
Baker, M. C. (CS)	Harleyville	Bridges, R. D. (CS)*	Taylors
Baker, W. A. (CS)	Timmonsville	Bright, L. D. (CS)	Greer
Baker, W. W. (CS)	Florence	Brinkley, J. E. (CS)	Asheville, N. C.
Baldwin, W. J. (CS)	Spartanburg	Brissie, A. M. (CS)*	Clemson
Ballard, J. W. (CS)	Pelzer	Brittain, J. A. (CS)	Horse Shoe, N. C.
Ballard, R. W. (CS)	Monticello, Ga.	Brock, A. H. (Unc)	Seneca
Ballew, H. C. (G)	Greenville	Brock, C. E. (G)	Seneca
Ballew, J. F. (CS)	Tryon, N. C.	Brock, P. W. (G)	Seneca
Banister, R. H. (Unc)	Anderson	Brooks, F. E. (CS)	Sandersville, Ga.
Barker, J. E. (CS)	Westminster	Brooks, P. J. (Unc)	Anderson
Barnes, J. P. (CS)	Florence	Brooks, R. M. (CS)	Pendleton
Bashor, A. L. (CS)	Conway	Browder, L. E. (CS)*	Newberry
Baumbush, J. C. (CS)	Eastover	Brown, B. M. (CS)	Walhalla
Beach, H. L. (G)	Walterboro	Brown, C. E. (G)	Kingstree
Beach, R. W. (CS)	Charleston	Brown, E. J. (Unc)	Walhalla
Beasley, W. A. (G)	Aiken	Brown, J. L. (CS)	Augusta, Ga.
Beason, M. B. (CS)*	Cliffside, N. C.	Brown, J. P. (CS)	Westminster
Beaver, C. W. (CS)	Gastonia, N. C.	Brown, J. Pat (CS)	Sedalia
Beaver, P. F. (CS)*	Kannapolis, N. C.	Brown, J. R. (CS)	North Augusta
Beckum, J. T. (CS)	North Charleston	Brown, J. W. (CS)	Newberry
Becorest, V. H. (CS)	McComas, W. Va.	Brown, L. G. (CS)	Pickens
Bedenbaugh, G. C. (CS)	Leesville	Brown, M. E. (CS)	Gaffney
Bedenbaugh, R. F. (CS)	Belvedere	Brown, P. M. (G)	Greenville
Begley, J. F. (CS)	Greenville	Brown, T. R. (CS)	Charleston
Behbehani, A. M. (CS)	Teheran, Iran	Brown, W. B. (CS)	Georgetown
Bell, G. E. (CS)	Cordova	Browne, G. H. (CS)	Rock Hill
Bell, R. C. (CS)	Clemson	Bruner, W. M. (CS)	Clemson
Bellamy, J. S. (CS)*	Pawleys Island	Bruerton, H. B. (CS)	Georgetown
Belue, J. C. (CS)	Greenville	Bryan, H. O. (CS)	Spartanburg
Benjamin, J. C. (CS)*	Liberty	Bryant, E. E. (G)	Lowndesville
Bennett, J. H. (CS)	Cheraw	Bryant, F. S. (G)	Clemson
Bennett, R. J. (G)	Laurens	Buckley, J. D. (CS)	Sumter
Bergh, C. M. (CS)	Tifton, Ga.	Buckwalter, L. E. (Unc)	Walterboro
Berry, C. M. (CS)	Spartanburg	Buffkin, R. M. (CS)	Heath Springs
Besson, B. G. (CS)	North Augusta	Bullock, J. F. (CS)	Florence
Bethea, W. D. (CS)	Eutawville	Burden, C. A. (CS)	Piedmont
Bickley, D. W. (G)	Clemson	Burdette, R. E. (CS)	Spartanburg
Biringer, W. M. (CS)	Clemson	Burke, D. K. (CS)	Charlotte, N. C.
Bishop, C. E. (G)	Honea Path	Burnette, H. L. (CS)	Bristol, Va.
Bissell, G. H. (CS)	West Groton, Mass.	Burress, R. (Unc)	Clemson
Black, C. A. (CS)	Gaffney		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Burris, D. M. (CS)	Liberty	Connor, A. S. (CS)	Lamar
Burris, J. W. (CS)	Pelzer	Conwell, F. M. (CS)	Greenwood
Busbee, C. B. (CS)	Cayce	Cook, M. G. (CS)	Kershaw
Bush, J. L. (CS)	Atlanta, Ga.	Cook, R. W. (CS)	Aiken
Butler, C. M. (G)	Hartsville	Cooper, S. E. (Unc)	Pendleton
Butts, W. W. (G)	Walhalla	Cornelius, J. E. (CS)	Sea Girt, N. J.
Bynum, C. B. (CS)	Gaffney	Cortez, C. E. (CS)*	Wagener
Byrd, J. R. (CS)	LaFrance	Cothran, O. R. (G)	Piedmont
Callahan, L. D. (Unc)	Westminster	Cothran, R. E. (CS)	Greenwood
Callahan, D. D. (Unc)	Piedmont	Counts, O. F. (CS)	Springfield
Campbell, B. D. (CS)	Pelzer	Covington, C. R. (CS)	Rock Hill
Campbell, J. A. (CS)	Greer	Coward, H. C. (CS)	Aiken
Campbell, J. W. (CS)	Lugoff	Cox, A. J. (CS)	Loris
Campbell, T. A. (CS)	Clemson	Cox, C. L. (CS)	Belton
Cannon, B. C. (CS)	Clemson	Cox, S. W. (CS)	Atlanta, Ga.
Cannon, B. P. (CS)	Inman	Cox, W. E. (CS)	Marietta
Cannon, D. C. (CS)	Sumter	Cozart, M. C. (CS)*	Columbus, Ga.
Cannon, E. S. (CS)	Clemson	Crapps, P. C. (CS)	Live Oak, Fla.
Cantrell, A. F. (CS)	Liberty	Crawford, L. A. (CS)	Clemson
Carland, W. S. (CS)*	Fletcher, N. C.	Creamer, B. H. (CS)	Anderson
Carpenter, J. M. (CS)	Easley	Crews, P. J. (Unc)	Seneca
Carr, C. R. (CS)	Arden, N. C.	Critser, R. W. (CS)	Charleston
Carroll, H. W. (Unc)	Clemson	Cromer, J. (G)	Anderson
Carroll, J. A. (G)	Pendleton	Cromer, M. G. (Unc)	Anderson
Carroll, J. H. (Unc)	Westminster	Cromer, W. G. (CS)	Anderson
Carson, C. C. (CS)	Kingsport, Tenn.	Crone, J. E. (CS)	Piedmont
Carson, M. E. (CS)	Saluda	Cronk, W. S. (G)	Macon, Ga.
Carswell, E. W. (CS)*	McRoberts, Ky.	Crooks, L. L. (CS)	Seneca
Carter, B. E. (CS)	Rock Hill	Cross, A. H. (CS)	Cross
Carter, D. H. (CS)	Union	Cross, H. S. (G)	Clemson
Carter, J. R. (CS)	Fort Mill	Crotwell, G. P. (CS)	Liberty
Carter, M. (CS)	Jacksonville Beach, Fla.	Crouch, H. L. (G)	Saluda
Carter, P. R. (CS)	Walhalla	Crouch, R. K. (Unc)	Barnwell
Carter, W. S. (CS)	Ridgeway	Crout, S. B. (Unc)	Swansea
Carver, D. K. (CS)	Elkins, W. Va.	Culbreth, J. G. (Unc)	Barnwell
Carwile, M. E. (G)	Pendleton	Cureton, A. R. (CS)	Clemson
Cassady, J. A. (CS)	Camden	Daniel, J. R. (CS)	Moncks Corner
Cassidy, D. J. (CS)	Petersburg, Va.	Danielsen, A. L. (CS)	Council Bluffs, Iowa
Caulder, C. F. (Unc)	Cheraw	Darracott, F. W. (CS)	Johnston
Cha, K. D. (CS)	Suwom City, Korea	Davenport, J. C. (CS)	Clemson
Chamblee, J. M. (CS)	Anderson	Davenport, R. T. (CS)	Horse Shoe, N. C.
Chandler, D. W. (G)	Seneca	Davenport, T. E. (CS)	Kinards
Chapman, W. F. (G)	Clemson	Davis, B. E. (CS)*	Lancaster
Charles, K. R. (G)	Clemson	Davis, C. H. (CS)	West Columbia
Chastain, D. R. (G)	Williamston	Davis, C. W. (Unc)	Anderson
Chastain, F. H. (G)	Central	Davis, E. N. (CS)	Atlanta, Ga.
Chastain, H. C. (Unc)	Central	Davis, R. A. (CS)	Wadmalaw Island
Chastain, J. B. (G)	Pamplico	Davis, R. E. (CS)	Pawleys Island
Chastain, R. C. (G)	Greer	Davis, W. T. (CS)	Myrtle Beach
Chasteen, H. M. (CS)	Pendleton	Dawes, E. L. (Unc)	Anderson
Cheslak, W. M. (CS)	Carteret, N. J.	DeBruhl, J. C. (G)	Lancaster
Childers, F. R. (CS)	Gaffney	DeFore, N. E. (Unc)	Clemson
Childress, L. J. (Unc)	Fair Play	DeLoach, W. C. (CS)	Columbia
Childress, S. A. (Unc)	Columbia	Dempsey, G. A. (CS)	Lyman
Childress, T. C. (CS)	Laurens	De Navarra, Francisco (CS)	Havana, Cuba
Childress, W. F. (CS)	Westminster	Dennis, F. S. (CS)	Linwood, N. C.
Childs, E. N. (G)	Central	Dennis, T. W. (CS)	Johnsonville
Childs, J. B. (G)	Central	Deveaux, J. M. (CS)	Charleston
Chlystun, W. K. (CS)	Canton, Ohio	DeWitt, B. L. (CS)	Lake City
Clark, F. J. (CS)	Anderson	DeWitt, J. W. (CS)	Pamplico
Clark, H. L. (CS)	Dillon	Diarbekirian, M. O. (CS)	Buenos Aires, Argentina
Clark, R. N. (CS)	Charleston	Dickert, E. H. (G)	Liberty
Clarke, F. I. (CS)	Wadesboro, N. C.	Dickinson, R. F. (CS)	Orangeburg
Clayton, L. E. (G)	Clemson	Dillard, B. V. (CS)	Anderson
Clayton, L. F. (CS)	Florence	Dinich, M. (CS)	McKeesport, Pa.
Clemmer, M. E. (CS)	Newberry	Dimsdale, M. J. (CS)	Seneca
Cleveland, A. J. (CS)*	Matthews, N. C.	Dixon, C. C. (CS)*	Mullins
Clyburn, H. L. (CS)	Camden	Dixon, J. R. (CS)	Columbia
Coates, R. C. (CS)	Pelzer	Dodd, W. K. (CS)	Round O
Coats, N. B. (CS)	Laurens	Dodson, W. C. D. (CS)	Catechee
Cobb, G. P. (CS)	Rock Hill	Dominick, G. D. (CS)	Gaffney
Cochran, P. C. (CS)	Manning	Donley, P. E. (CS)	Greenville
Coleman, J. A. (CS)	Saluda	Downie, J. J. (CS)	Vineland, N. J.
Coleman, J. W. (CS)	Centenary	Drake, C. B. (CS)	Anderson
Collins, E. S. (Unc)	Seneca	Drennon, H. L. (G)	Pelzer
Collins, J. C. (CS)*	Pendleton	Duane, J. P. (G)	Charleston
Collins, J. E. (Unc)	Pickens	Dubose, J. C. (CS)	Cades
Collins, V. B. (G)	Clearwater, Fla.	Duckworth, E. J. (CS)	Asheville, N. C.
Conley, Opal (G)	Clemson		
Conlon, P. J. (CS)*	Charleston		
Connelly, D. H. (CS)	Pickens		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Dukes, M. F. (CS)	Atlanta, Ga.	Garrison, H. C. (CS)	Hartsville
Dunbar, L. D. (CS)	Spartanburg	Garrison, J. E. (G)	Seneca
Dunham, R. J. (Unc)	Greenville	Garrison, J. K. (CS)	Piedmont
Dunn, J. C. (Unc)	Central	Garrison, J. R. (CS)	Calhoun Falls
Durant, E. L. (G)	Clemson	Garrison, T. R. (CS)*	Anderson
Durham, J. W. (CS)	Pickens	Garrison, U. B. (G)	Walhalla
Duritzo, P. (CS)	Greer	Garrison, W. G. (CS)	Anderson
Duvall, G. L. (CS)	Cheraw	Gaskill, K. V. (CS)*	Central
Eaddy, J. M. (CS)	Manning	George, L. E. (CS)	Aiken
Eaddy, W. H. (G)	Hemingway	George, W. H. (CS)	Aiken
Eades, J. R. (CS)	Liberty	Gibbons, W. H. (CS)	Hartsville
Eargle, E. S. (CS)	Leesville	Gibbons, W. W. (CS)	McKeesport, Pa.
Earle, K. P. (G)	Central	Gibbs, E. M. (CS)	Murphy, N. C.
Earle, L. P. (Unc)	Walhalla	Gibson, C. C. (CS)	Pickens
Earle, T. P. (G)	Central	Gibson, C. S. (CS)	Georgetown
Earley, B. R. (CS)	Orangeburg	Gibson, G. A. (CS)*	Denmark
Eberhart, T. R. (CS)	Tarentum, Pa.	Gillespie, H. G. (CS)	Norris
Edens, M. U. (CS)	Dillon	Ginn, E. R. (Unc)	Varnville
Edmonds, E. A. (CS)	Asheville, N. C.	Gladden, T. W. (Unc)	Winnsboro
Edwards, G. F. (CS)	Aiken	Glasgow, J. C. (CS)	Conway
Edwards, W. W. (CS)	Saluda	Glover, A. C. (Unc)	Greenville
Efstatos, N. (CS)	Hastings-on-Hudson, N. Y.	Goodman, L. M. (CS)	Silver Spring, Md.
Eleazer, J. B. (CS)	Spartanburg	Graham, H. A. (CS)	Toccoa, Ga.
Elliott, D. F. (CS)*	Cassatt	Gramling, F. H. (CS)	Orangeburg
Ellison, A. A. (CS)	Anderson	Grant, W. A. (CS)	Andrews
Elmore, H. A. (CS)	Charlotte, N. C.	Gravelly, H. E. (CS)	Walhalla
Elrod, A. W. (CS)*	Central	Gray, J. W. (CS)	Greenville
Elrod, T. W. (CS)	Anderson	Gray, M. H. (CS)	Ware Shoals
Epps, A. L. (CS)	Kingstree	Grdijan, J. (CS)	Rillton, Pa.
Epting, R. A. (CS)*	Clemson	Green, W. K. (CS)	Kingstree
Ervin, R. D. (CS)	Greenville	Greene, H. F. (CS)	Greenville
Eskridge, W. F. (CS)	Florence	Greer, J. E. (CS)	Greenville
Estes, B. N. (CS)	Clemson	Greer, M. C. (CS)	Swansea, Mass.
Etheredge, T. J. (CS)	North	Griffin, F. G. (CS)	Louisville, Ky.
Etheridge, J. L. (CS)	Hartwell, Ga.	Griffin, J. C. (CS)	Travelers Rest
Evans, B. A. (CS)	Anderson	Grooms, J. O. (G)	North Charleston
Evans, E. (CS)	Manning	Grubbs, M. W. (G)	Belton
Faile, C. D. (CS)	Fort Mill	Guerry, C. B. (CS)	Bonneau
Fair, W. V. B. (CS)	Gastonia, N. C.	Guest, J. D. (CS)	Cowpens
Fairey, M. C. (CS)	Orangeburg	Guest, M. E. C. (G)	Marietta
Falls, B. T. (CS)	Washington, D. C.	Guggino, J. G. (G)	Clemson
Fant, R. S. (CS)	Clemson	Hair, S. M. (G)	Clemson
Farmer, J. Q. (CS)	Florence	Hall, E. M. (CS)	Iva
Farr, W. H. (CS)	Easley	Hall, G. T. (CS)	Springfield
Farrar, H. T. (G)	Seneca	Hall, R. A. (Unc)	Camden
Few, J. (CS)	Easley	Ham, R. F. (CS)	Florence
Fincher, H. T. (CS)	Columbia	Hamilton, D. R. (CS)	Seneca
Finley, J. (CS)	Laurens	Hamilton, D. V. (CS)	Paris, France
Fisher, H. R. (CS)	Anderson	Hamilton, P. M. (CS)	Silver Spring, Md.
Fisher, R. J. (CS)	Fairmont, N. C.	Harden, D. (CS)	Seneca
Fleishman, H. F. (Unc)	Anderson	Hardy, R. W. (CS)	Anderson
Floyd, A. E. (CS)	Nixsonville	Harkins, C. S. (CS)	Williamston
Floyd, B. G. (G)	Clemson	Harley, R. G. (CS)	Orangeburg
Folk, K. S. (CS)	St. Petersburg, Fla.	Harper, J. V. (Unc)	Anderson
Fonville, J. C. (CS)	Greenville	Harris, R. T. (G)	Clover
Forrester, J. M. (G)	Greer	Harris, T. B. (CS)	Pelzer
Fort, W. T. (CS)	Sumter	Harrop, J. B. (CS)	Camden
Fortson, H. S. (CS)	Bowman, Ga.	Hart, B. J. (CS)	Greenville
Foster, R. M. (Unc)	Travelers Rest	Hart, J. J. (CS)	Spartanburg
Foster, W. H. (CS)	Gaffney	Hart, J. W. (CS)	Elmhurst, N. Y.
Fowler, J. F. (CS)	Campobello	Hartman, D. H. (CS)	Greenville
Fox, B. S. (CS)	Easley	Hartney, E. C. (CS)	Atlanta, Ga.
Frasca, A. (CS)	Lynn, Mass.	Hartsell, F. D. (CS)	Seneca
Freeman, E. L., Jr. (CS)	Sumter	Hartsell, J. L. (CS)	Rock Hill
Freeman, J. P. (CS)	Dacusville	Hartzog, H. S. (CS)	Beaufort
Fridde, W. J. (G)	Greenville	Harvey, D. W. (CS)	Fairfax
Fuller, J. E. (CS)	Bristol, Va.	Hasbrouck, R. W. (CS)*	Ferndale, Mich.
Funderburk, C. E. (CS)	Greenville	Haskell, A. S. (CS)	Clemson
Fusselle, E. G. (CS)	North Augusta	Haskell, R. (CS)	Beaufort
Gahr, J. F. (CS)	Anderson	Hatchell, W. O. (CS)	Dillon
Galloway, R. H. (CS)	Greenwood	Hawkins, W. F. (CS)	Taylors
Gallup, E. L. (CS)	Sumter	Hawthorne, J. W. (CS)	Abbeville
Galway, J. H. (CS)	Greenville	Hayes, G. (Unc)	Anderson
Gambrell, L. A. (CS)*	Pendleton	Hayes, T. W. (CS)	Sellers
Gambrell, M. W. (Unc)	Anderson	Hayes, W. M. (Unc)	Spartanburg
Garland, S. S. (CS)	Black Mountain, N. C.	Hays, W. L. (CS)	Latta
Garner, R. T. (CS)	Greenville	Hazzard, W. J. (CS)	Lugoff
Garrett, J. T. (CS)	Anderson	Heape, R. E. (CS)	Yemassee
Garrett, Z. V. (CS)	Walhalla	Henderson, N. (CS)	Greenville
Garrison, D. W. (CS)	Rock Hill	Hendley, H. B. (CS)	Greenville
		Hendricks, R. (CS)	Central

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Hendricks, R. C. (CS)	Belton	Jones, D. R. (CS)	East Flat Rock, N. C.
Hendricks, R. K. (CS)	Easley	Jones, Douglas R. (CS)	East Flat Rock, N. C.
Henkel, D. T. (CS)	Camden	Jones, E. W. (G)	Easley
Henry, Z. A. (G)	Barnesville, Ga.	Jones, F. R. (CS)	Greenville
Henson, J. L. (G)*	Greenville	Jones, G. W. (G)	Iva
Herd, B. C. (G)	Williamston	Jones, H. A. (CS)	Nichols
Herring, J. E. (CS)	Easley	Jones, M. L. (CS)	Beaufort
Hicks, W. R. (CS)	Belton	Jones, R. (CS)	Columbia
Hiers, F. (CS)	Ehrhardt	Jones, R. C. (CS)	Laurens
Hill, J. S. (CS)	Belton	Jones, W. C. (CS)	Sumter
Hill, J. W. (CS)	York	Jones, W. D. (CS)	Asheville, N. C.
Hill, T. H. (CS)	Belton	Jordan, A. F. (CS)	Union
Hillhouse, R. T. (CS)	Anderson	Jordan, J. A. (CS)	Greenville
Hindman, C. E. (Unc)	Enoree	Jordan, J. M. (CS)	Charlotte, N. C.
Hinds, V. C. (CS)	Georgetown	Jordan, L. E. (CS)	St. George
Hinson, D. J. (CS)	Loris	Joye, W. L. (CS)	Charleston Heights
Hinson, L. C. (CS)	Clemson	Katterhenry, W. (CS)	Easley
Hitt, H. W. (CS)	Greenville	Kay, E. C. (Unc)	Clemson
Hoefler, R. F. (CS)	Gainesville, Ga.	Kay, J. R. (CS)	Anderson
Hoffman, R. R. (CS)*	Roswell, N. Mex.	Kay, M. A. (CS)	Easley
Hogg, H. D. (CS)	Greenville	Kay, W. G. (CS)	Allendale
Hogg, J. D. (CS)	Greenville	Keese, W. C. (CS)*	Westminster
Holden, S. (CS)	Clemson	Keller, M. W. (CS)	Greenville
Holleman, M. E. (G)	Seneca	Keller, W. A. (CS)	Cameron
Holleman, S. H. (G)	Seneca	Kelley, T. E. (CS)	Lake City
Holliday, B. C. (Unc)	Central	Kelly, R. M. (Unc)	Anderson
Holloway, W. O. (CS)	Ware Shoals	Kennington, V. W. (CS)	Lancaster
Holt, W. D. (CS)	Nichols	Kilby, F. D. (CS)	Liberty
Hood, W. K. (Unc)	Anderson	Kimball, F. E. (CS)*	Knoxville, Tenn.
Hooper, R. E. (CS)	Piedmont	Kinard, G. P. (G)	Clemson
Hoover, H. E. (CS)	North Charleston	King, C. E. (CS)	Simpsonville
Hopkins, J. G. (Unc)	Central	King, C. H. (CS)	Belton
Hopkins, J. H. (CS)	Pendleton	King, E. L. (CS)	Durham, N. C.
Hopkins, W. T. (CS)	Pendleton	King, G. L. (CS)	Sumter
Hornick, F. J. (G)	Central	King, H. B. (CS)	Westminster
Hough, R. W. (CS)	Gratztown, Pa.	King, J. C. (CS)	Anderson
Howard, L. E. (CS)	Georgetown	King, L. P. (Unc)	Westminster
Howe, W. H. (CS)	Rock Hill	Kinion, N. F. (CS)	Greer
Howle, C. W. (G)	Florence	Kirby, H. D. (CS)	Seneca
Hubbard, R. C. (G)	Bamberg	Kirkpatrick, W. C. (CS)	Richburg
Hucks, M. L. (Unc)	Pickens	Kiser, B. R. (CS)	Rock Hill
Hudson, V. J. (CS)	North Charleston	Kizer, G. R. (G)	North
Hudson, W. L. (CS)	Brevard, N. C.	Kleckley, E. H. (CS)	Charleston
Huffman, J. L. (G)	Newberry	Knight, G. P. (CS)	Harleyville
Huffman, J. O. (CS)*	Greenville	Koestner, J. E. (CS)	Savannah, Ga.
Huffman, T. B. (Unc)	Piedmont	Krieger, R. G. (CS)	Washington, D. C.
Hughes, C. G. (CS)	Greenville	Krueger, G. H. (CS)	Atlanta, Ga.
Hughes, P. K. (CS)	Westminster	Lafferty, J. S. (CS)	Greenville, N. C.
Hughey, J. W. (CS)	Piedmont	Lammonds, J. M. (CS)	Rockingham, N. C.
Huiet, W. D. (CS)	Trenton	Land, T. J. (Unc)	Seneca
Hungerford, H. (CS)*	Greer	Landers, W. M. (CS)	Asheville, N. C.
Hunter, J. C. (CS)	Green Mountain, N. C.	Lane, R. P. (CS)	Marion
Hunter, J. D. (CS)	Greenwood	Lane, S. M. (G)	Clemson
Hunter, J. E. (CS)	Lancaster	Lane, T. L. (G)	Johnsonville
Hunter, W. L. (CS)	Columbia	Langdale, G. W. (G)	Walterboro
Huntsinger, F. E. (CS)	Anderson	Lanham, W. J. (G)	Clemson
Hutchins, R. L. (CS)	Walhalla	Lankford, J. H. (CS)*	Easley
Hutchinson, J. E. (CS)	Rock Hill	Larisey, W. S. (CS)	Hampton
Hyder, A. G. (CS)	Anderson	Latour, A. M. (CS)	Havana, Cuba
Inman, M. H. (CS)	Loris	Lawrence, W. B. (CS)	Greenville
Israel, C. M. (CS)	Roebuck	Leach, D. P. (CS)	Anderson
Ivey, W. D. (G)	Hemingway	Lee, D. E. (CS)	Scranton
Ivie, G. J. (Unc)	Seneca	Lee, E. C. (CS)	Columbia
Jackson, W. F. (CS)	Rock Hill	Lee, J. (G)	Landrum
James, B. O. (CS)	Central	Lee, J. K. (CS)	Seoul, Korea
Jameson, W. B. (CS)	Easley	Lee, S. D. (G)	Miami, Fla.
Jennings, V. J. (CS)*	Warrenville	LeMaster, R. T. (CS)	Gaffney
Jerome, W. R. (CS)	Greenville	Leonard, L. C. (CS)	Johnson City, Tenn.
Jetter, D. R. (CS)	Waynesville, N. C.	Lesley, J. G. (G)	Piedmont
Joerger, A. L. (Unc)	North Seituate, R. I.	Lesslie, J. W. (CS)	Rock Hill
Johnson, B. F. (CS)	Clinton	Leviner, G. W. (CS)	McBee
Johnson, F. (CS)	Belton	Lewis, B. W. (CS)	Newberry
Johnson, F. D. (G)	York	Lewis, J. L. (CS)	Aliquippa, Pa.
Johnson, H. E. (CS)	Greenwood	Lewis, L. L. (G)	Leesville
Johnson, K. M. (CS)	Hardeeville	Leyden, D. R. (CS)	Jersey City, N. J.
Johnson, R. C. (CS)	Sumter	Liberty, V. E. (CS)	Clemson
Johnson, T. D. (CS)*	Midland, Mich.	Limehouse, B. I. (CS)	Charleston
Johnson, T. M. (CS)	Sumter	Link, J. B. (CS)	McCormick
Johnson, W. R. (CS)	Savannah, Ga.	Lipscomb, A. E. (Unc)	Walhalla
Jones, D. B. (CS)	Greenville		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Liverett, H. R. (CS)	Hendersonville, N. C.	Mattox, W. R. (G)	Clemson
Lollis, O. L. (CS)	Belton	Maw, B. J. (CS)	Central
Long, B. W. (CS)	Westminster	Mayfield, J. T. (CS)	Marietta
Long, G. E. (CS)	Georgetown	Mayfield, T. L. (CS)	Anderson
Long, J. M. (CS)	East Gadsden, Ala.	Mays, L. M. (CS)	Walhalla
Long, L. C. (CS)*	Conway	Meador, D. J. (CS)	Atlanta, Ga.
Long, M. C. (CS)	Anderson	Medlock, J. D. (CS)	Pendleton
Longmeyer, R. D. (CS)*	Shelby, N. C.	Merck, J. K. (G)	Bishopville
Longshore, H. B. (CS)	Greenwood	Metro, F. G. (G)	Macon, Ga.
Lord, E. D. (CS)*	Anderson	Middaugh, R. C. (CS)	Mount Pleasant
Loudermilk, R. H. (CS)	Walhalla	Middleton, M. W. (G)	Williamston
Lovell, J. K. (CS)	Gresham	Middleton, R. E. (CS)	Clearwater, Fla.
Lovett, W. (G)	Green Sea	Mikell, E. M. (CS)	Wadmalaw Island
Lowery, M. K. (CS)	Seneca	Milam, A. S. (Unc)	Sandy Springs
Lucas, F. E. (CS)	Charleston	Miley, G. F. (G)	Greeleyville
Lusk, W. T. (CS)	Easley	Miller, L. P. (CS)	Walhalla
Lyles, R. J. (Unc)	Madison	Miller, V. L. (G)	New Ellenton
Lynch, T. M. (CS)	Anderson	Minyard, J. L. (CS)	Anderson
McAdams, D. L. (CS)	Fair Play	Miyares, B. O. (CS)*	Havana, Cuba
McAlister, M. A. (CS)	Central	Miyares, C. H. (CS)*	Havana, Cuba
McCahan, A. R. (CS)	Greenville	Moffatt, M. E. (Unc)	Bedford, Ohio
McCall, W. C. (CS)	Seneca	Molony, W. I. (G)	Charleston
McCarley, W. R. (CS)	Kinards	Moncrief, C. E. (CS)	Moultrie, Ga.
McCarter, B. H. (CS)	Clover	Moody, B. D. (CS)	Seneca
McClure, J. R. (CS)*	Anderson	Moore, B. O. (CS)	Chickasaw, Ala.
McCormic, W. M. (CS)	Sumter	Moore, J. A. (CS)	Seneca
McCown, C. C. (Unc)	Williamston	Moore, J. W. (CS)	Taylor
McCoy, B. S. (CS)	Anderson	Moore, M. C. (CS)	Seneca
McCoy, J. D. (CS)	Anderson	Moore, S. G. (Unc)	Seneca
McCravy, E. P. (CS)	Easley	Morgan, P. T. (CS)	North Great Falls, Mont.
McCullough, W. E. (CS)*	Spartanburg	Morgan, R. L. (CS)	New Martinsville, W. Va.
McDaniel, A. B. (G)	Walhalla	Morgan, R. W. (Unc)	Seneca
McDaniel, G. W. (CS)	Greenville	Morrison, A. S. (CS)	Hartsville
McDonald, H. L. (CS)	Liberty	Morrow, C. H. (CS)	Clover
McDowell, H. E. (CS)*	Spartanburg	Morrow, W. G. (CS)	Shelby, N. C.
McDowell, L. E. (CS)	Spartanburg	Moser, R. N. (CS)	Sarner, Pa.
McElwee, L. L. (CS)	Clover	Mosteller, C. T. (CS)	Gaffney
McGee, K. P. (CS)	Starr	Moyer, P. W. (Unc)	Greenville
McGill, D. M. (G)	Anderson	Moules, B. J. (G)	Anderson
McGill, S. D. (CS)	Kingstree	Mueller, T. E. (CS)	Clemson
McGirt, B. M. (CS)	Columbia	Mull, B. R. (CS)	Greenville
McGlohon, N. E. (G)	Clemson	Mullins, J. A. (G)	Grenada, Miss.
McInerny, J. F. (CS)	Columbia	Mullis, G. G. (CS)	Spartanburg
McKagen, W. C. (CS)	Isle of Palms	Mundy, R. M. (CS)	Ware Shoals
McKittrick, C. W. (CS)	Easley	Munn, F. W. (CS)	Rock Hill
McLaulin, N. S. (CS)	Panama City, Fla.	Murdock, J. P. (CS)	Belton
McLean, J. D. (CS)	Spartanburg	Murphree, M. C. (Unc)	Six Mile
McLeod, L. G. (CS)	Timmons ville	Murphree, W. S. (G)	Walhalla
McMillan, J. H. (CS)	Branchville	Murphy, J. M. (CS)	Charleston Heights
McMillian, W. W. (G)	Florence	Murray, J. L., Jr. (CS)	Augusta
McPherson, W. D. (CS)	Greenville	Myers, C. R. (CS)	Westminster
McSwain, J. A. (CS)	Durham	Myers, D. E. (G)	Ypsilanti, Mich.
McTeer, H. (CS)	Walterboro	Nalley, C. E. (CS)	Easley
Mabry, J. M. (CS)	Greenville	Nalley, W. M. (CS)	Liberty
Mack, K. B. (CS)	Jackson	Nance, L. E. (G)	Galivants Ferry
Madden, J. L. (G)	Greenville	Nash, R. A. (CS)	Hamlet, N. C.
Maddox, W. H. (CS)	Easley	Nasim, M. I. (CS)	Karachi, West Pakistan
Magill, J. B. (CS)	Concord, N. C.	Neal, J. A. (CS)	Greenville
Maheronnaghsh, M. (CS)*	Teheran, Iran	Neely, W. J. (CS)	Rock Hill
Mandy, J. A. (CS)	Brooklyn, N. Y.	Neill, R. T. (G)	Anderson
Manger, A. R. (CS)	Myrtle Beach	Nelson, A. R. (CS)	Columbia
Mangum, M. (CS)	Spartanburg	Nelson, L. G. (CS)	Fountain Inn
Manis, D. E. (CS)	Pacolet Mills	Nettles, E. W. (CS)	Sumter
Marchant, J. (CS)	Harleyville	Nettles, J. R. (CS)	Charleston
Marinos, H. (CS)	Greenville	Newton, J. B. (Unc)	Myrtle Beach
Marinos, P. (CS)	Greenville	Nichols, F. M. (CS)	Savannah, Ga.
Marsh, W. R. (CS)	Union	Nichols, J. B. (CS)	Sumter
Marshall, H. B. (CS)	Rock Hill	Nichols, P. W. (CS)	Ridgeway
Martin, D. E. (CS)	Newark, Del.	Nickles, W. L. (CS)	Abbeville
Martin, G. B. (CS)	Newberry	Nix, D. J. (CS)	Anderson
Martin, H. L. (CS)	Greenville	Nolan, M. P. (CS)	Marion
Martin, J. C. (CS)	Abbeville	Norman, C. W. (CS)	Alexandria, La.
Martin, W. B. (CS)	Strother	Norton, C. W. (CS)*	North Charleston
Martin, W. H. (CS)	Easley	Norton, J. H. (CS)	Murphreesboro, Tenn.
Massingill, W. B. (CS)	Easley	Norton, L. N. (G)	Nichols
Mathewes, J. K. (CS)	Charleston	Nuckolls, T. J. (CS)	Charlotte, N. C.
Mathews, I. E. (CS)	Union	Nutt, J. W. (CS)	Clemson
Mattison, J. R. (CS)	Clemson	O'Brien, G. A. (Unc)	Williamston
Mattos, T. M. (G)	Westminster		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
O'Brien, R. E. (G)	Eutawville	Rash, J. H. (G)*	Chester
Ohlman, E. M. (CS)	Greenville	Rast, B. M. (CS)	Cameron
Opperman, K. H. (CS)*	Seneca	Rast, J. M. (CS)	Greenville
Osio, A. (CS)	Caracas, Venezuela	Ratchford, M. G. (CS)	York
Osteen, J. L. (CS)	Greenville	Ratterree, H. B. (CS)	Rock Hill
Outen, M. D. (CS)	Columbia	Ray, O. C. (CS)	Townville
Owen, B. L. (CS)	Laurinburg, N. C.	Reamer, L. D. (CS)	Greenville
Owen, E. P. S. (G)	Liberty	Redding, G. R. (CS)	Henderson, N. C.
Owen, J. S. (Unc)	Chase City, Va.	Redman, E. M. (CS)	Yonges Island
Owen, W. H. (CS)	Liberty	Reeder, A. E. (CS)	Fort Mill
Owens, W. M. (CS)	Gibson, N. C.	Reel, E. S. L. (CS)	Spartanburg
Owings, C. R. (CS)	Greenwood	Reel, F. M. (CS)	Spartanburg
Pace, K. L. (G)	Sumter	Reid, H. W. (G)	Spartanburg
Padgett, A. L. (G)	Aiken	Renwick, W. H. (CS)	Greenville
Padgett, S. M. (G)	Walterboro	Reynolds, P. G. (CS)	Sumter
Page, A. D. (CS)	Marion	Reynolds, R. E. (CS)	Timmonsville
Palmer, F. C. (CS)*	Rock Hill	Rhodes, M. B. (Unc)	Williamston
Pappas, C. D. (CS)	Charleston	Rice, E. C. (CS)	Plum Branch
Parker, C. V. (CS)	Pisgah Forest, N. C.	Rice, W. C. (Unc)	Buffalo
Parker, L. E. (CS)	Savannah, Ga.	Rice, W. H. (CS)	Anderson
Parker, R. R. (CS)	Anderson	Richards, D. S. (CS)	Charlotte, N. C.
Parker, V. V. (CS)*	Anderson	Richardson, A. L. (CS)	Florence
Parkerson, L. D. (CS)	Gastonia, N. C.	Richardson, A. P. (CS)	Columbia
Parks, W. P. (CS)	McCormick	Riddle, J. E. (CS)	Greenville
Parris, H. G. (CS)	Gaffney	Ridgill, J. O. (CS)	Manning
Parrish, R. J. (CS)	Easley	Ridley, J. C. (CS)	Mountain Rest
Parsons, W. E. (CS)	Sumter	Rigdon, J. D. (CS)	Anderson
Patterson, D. D. (CS)	Clemson	Riley, R. C. (G)	Scarsdale, N. Y.
Patterson, J. R. (CS)	Campobello	Ripley, E. G. (CS)	Greenville
Paxton, E. H. (CS)	Seneca	Risher, J. H. (CS)	Jackson
Pearce, R. L. (CS)	Kankakee, Ill.	Robbins, D. K. (CS)	Blacksburg
Pelter, A. A. (CS)	Baltimore, Md.	Roberts, J. B. (CS)*	Kershaw
Pendarvis, Z. A. (CS)	Dorchester	Roberts, J. T. (CS)	Six Mile
Pepper, A. C. (Unc)	Easley	Roberts, L. H. (CS)*	Georgetown
Pettigrew, C. A. (CS)	Abbeville	Robinson, J. D. (CS)	Midway Park, N. C.
Petty, J. B. (CS)	Chesnee	Robinson, R. M. (CS)	Clemson
Phillips, B. R. (CS)	Anderson	Rochester, S. B. (Unc)	Walhalla
Phillips, G. W. (CS)	Lancaster	Rodriguez, F. O. A. (CS)*	Havana, Cuba
Phillips, J. A. (CS)	Williamston	Rogers, D. K. (CS)	Pelzer
Phillips, J. E. (CS)	Gaffney	Rogers, J. D. (CS)	Williamston
Phillips, J. U. (CS)	Walhalla	Rogers, J. H. (CS)	Savannah, Ga.
Phipps, D. P. (CS)	Columbia	Rogers, R. P. (CS)	Blackville
Pickens, J. P. (G)	Taylors	Rogers, W. E. (CS)	Mullins
Pittman, W. A. (Unc)	Greenville	Roginsky, M. L. (Unc)	Georgetown
Pitts, F. E. (CS)	Greenwood	Ronemous, W. C. (CS)	Charleston
Pitts, M. A. (G)	Seneca	Roper, D. B. (Unc)	Laurens
Ponder, W. M. (Unc)	Easley	Roper, O. F. (Unc)	Pickens
Ponder, R. D. (CS)	Easley	Rosamond, J. E. (CS)*	Greenville
Poole, D. L. (CS)	Rock Hill	Ross, G. A. (CS)	Kingstree
Poole, E. R. (CS)	Travelers Rest	Ross, W. E. (CS)	Easley
Poole, M. P. (CS)	Greenville	Rothell, R. D. (CS)	Westminster
Poole, W. J. (CS)	Clemson	Rowland, B. R. (CS)	Sandy Springs
Porter, E. G. (Unc)	Williamston	Rush, A. L. (CS)	Greenwood
Potter, L. L. (CS)	Littlestown, Pa.	Rush, C. L. (CS)	Greenwood
Pou, J. C. (CS)	Livingston	Rush, W. G. (CS)	Union
Powell, D. L. (Unc)	Easley	Russell, D. M. (CS)	Florence
Powell, F. N. (Unc)	Easley	Russell, E. D. (CS)	Florence
Powell, M. P. (CS)*	Mullins	Rutherford, J. S. (CS)*	Charlotte, N. C.
Powell, R. L. (CS)*	Tampa, Fla.	Sanders, W. T. (CS)	Easley
Pressley, C. M. (CS)	Charlotte, N. C.	Sanderson, W. M. (CS)	Dillon
Pridmore, R. G. (CS)*	Walhalla	Sanko, G. (G)	Aiken
Priester, L. E. (G)	Clemson	Satterfield, J. W. (CS)	Walhalla
Prince, R. F. (CS)	Laurens	Savage, H. R. (CS)	Sumter
Pritchard, F. G. (CS)	Sumter	Sauls, E. N. (CS)	Charleston Heights
Proffitt, J. C. (CS)	Greenville	Saunders, J. R. (CS)	Wauchula, Fla.
Pruett, J. E. (CS)	Drayton	Scarpa, E. A. (CS)	Charleston
Pruitt, K. (CS)	Glendale	Schilletter, W. A. (CS)	Columbia
Pruitt, R. M. (CS)	Anderson	Schladensky, R. J. (CS)*	Coolee, N. C.
Pruitt, W. B. (CS)	Anderson	Schwartz, W. S. (CS)	Charleston
Putman, C. E. (CS)	Gastonia, N. C.	11—JACOBS—CLEMSON	
Putnam, D. M. (CS)	Laurens	Scott, G. D. (CS)*	Anderson
Putnam, S. F. (CS)	Starr	Scoville, W. N. (CS)	Orangeburg
Quesenberry, G. H. (CS)	Radford, Va.	Scurry, W. M. (CS)	Chappells
Rackley, C. A. (CS)	Easley	Searson, B. A. (CS)	Spartanburg
Raines, J. M. (CS)	Landrum	Seay, E. B. (CS)	Greenville
Ramey, W. R. (CS)	Westminster	Segars, C. A. (CS)	Oswego
Rampey, W. P. (CS)	Easley	Seidenstricker, J. A. (CS)	Charlotte, N. C.
Ramsey, D. B. (G)	Washington, D. C.	Sell, O. S. (G)	Anderson
Randall, T. E. (CS)	Greenville		
Rankin, J. J. (G)	Salem		
Rasheed, I. (CS)	Beit Merry, Lebanon		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Senn, H. B. (G)	Inman	Taylor, W. R. (G)	Kershaw
Sessions, H. T. (CS)	Conway	Templeton, F. G. (CS)	Charlotte, N. C.
Shank, T. L. (CS)	Mullins	Thomas, J. T. (CS)	Fairfax
Shanley, M. A. (CS)*	Bethesda, Md.	Thomas, R. M. (CS)	Chesterfield
Sharp, V. H. (Unc)	Anderson	Thomason, E. H. (CS)	Olanta
Shaw, B. F. (CS)	Abbeville	Thompson, B. D. (CS)	Gaffney
Shealy, R. G. (CS)	Newberry	Thompson, C. W. (G)	Hampton
Shearin, A. T. (CS)	Darlington	Thompson, F. A. (CS)	Spartanburg
Shelley, B. B. (CS)	Clemson	Thompson, F. M. (Unc)	Wagener
Sherard, G. B. (Unc)	Anderson	Thompson, W. B. (CS)*	Clemson
Sherman, J. E. (CS)	Clemson	Thompson, W. C. (CS)	Lancaster
Shirley, G. H. (Unc)	Seneca	Timmerman, D. A. (G)	Westminster
Shirley, H. R. (CS)	North Charleston	Timmerman, J. A. (G)	Pelzer
Shirley, J. G. (G)	Pickens	Tinsley, H. D. (CS)	Hodges
Shirley, W. A. (CS)	Honea Path	Tobias, J. C. (CS)	Columbia
Simmons, J. C. (G)	Brooksville, Miss.	Todd, E. L. (CS)	Greenville
Simmons, W. R. (CS)	Greenville	Todd, J. A. (CS)	Aiken
Simpson, D. C. (CS)	Anderson	Todor, P. C. (CS)	Parma, Ohio
Simpson, W. L. (CS)	Greenville	Tolley, H. W. (CS)	Asheville, N. C.
Sims, A. J. (G)	Westminster	Tollison, H. E. (CS)	Greenville
Singleton, R. E. (CS)	Massena, N. Y.	Tolson, B. A. (CS)	Timmonsville
Sistare, A. C. (CS)	Lancaster	Tomblin, R. L. (CS)*	Spindale, N. C.
Skelton, V. C. (CS)	Clemson	Tomlin, R. B. (G)	Walhalla
Slice, R. L. (CS)	Columbia	Tomlinson, N. J. (CS)	Lynchburg
Sluder, G. D. (CS)*	Seneca	Trammel, J. A. (G)	Woodruff
Smalley, R. L. (CS)	Gaffney	Traxler, J. F. (CS)	Rock Hill
Smith, A. G. (Unc)	Clinton	Traylor, P. W. (CS)	Blackstock
Smith, E. S. (CS)	Charlotte, N. C.	Treadway, R. M. (CS)	Columbia
Smith, F. L. (CS)	North Charleston	Tribble, R. L. (CS)	Westminster
Smith, G. O. (G)	Conway	Trimmier, D. C. (CS)	Bedford, Pa.
Smith, H. C. (CS)	South Greenwood	Tripp, C. H. (G)*	Piedmont
Smith, J. A. (CS)*	Saluda	Tripp, W. O. (CS)	Greenville
Smith, J. E. H. (CS)	Toccoa, Ga.	Trively, T. C. (CS)	Clemson
Smith, J. N. (CS)	Greenville	Truitt, W. R. (CS)	Spartanburg
Smith, K. E. (CS)	Woodruff	Tucker, E. W. (Unc)	Greenwood
Smith, K. W. (CS)	Walhalla	Tucker, H. (Unc)	Williamston
Smith, L. C. (CS)*	York	Tucker, J. W. (Unc)	Greenwood
Smith, M. L. (Unc)	Walhalla	Turner, C. J. (G)	Marietta, Ga.
Smith, R. D. (CS)	Bishopville	Turner, W. L. (CS)	Clemson
Smith, R. H. (CS)	Dillsboro, N. C.	Tuttle, W. C. (CS)	Lane
Snead, J. A. (Unc)	Anderson	Twiggs, H. C. (CS)	Spartanburg
Snow, G. H. (G)	Clemson	Varnadoe, R. H. (CS)	Hardeeville
Snyder, R. D. (G)	Lancaster, Pa.	Vaughan, B. A. (CS)	Union
Spearman, R. J. (CS)	Central	Verdin, D. B. (CS)	Lyman
Spivey, C. B. (CS)	North Augusta	Vickers, A. M. (CS)	Durham, N. C.
Springfield, M. E. (CS)	Greenville	Vissage, A. E. (G)	Walhalla
Stansell, J. T. (CS)	Easley	Walker, D. H. (CS)	Anderson
Stanton, R. C. (CS)	Cassatt	Walker, R. F. (CS)	Newport News, Va.
Staton, J. P. (CS)	Greenville	Walkup, J. B. (CS)	Florence
Stearns, J. K. (Unc)	Anderson	Wall, M. W. (G)	Chesnee
Steele, J. T. (CS)	Rock Hill	Walpole, H. B. (CS)*	John's Island
Stegall, T. L. (CS)	Washington, D. C.	Wanlass, R. C. (CS)	Hendersonville, N. C.
Stephens, G. J. (CS)	Central	Wannamaker, B. B. (CS)*	Orangeburg
Stephens, J. E. (CS)	Central	Ward, L. D. (CS)	Clemson
Stevens, E. J. (CS)	Clemson	Warner, J. R. (CS)	Charleston Heights
Stevens, H. R. (CS)	Hartsville	Washington, R. E. (CS)	Clemson
Stevenson, J. E. (CS)*	Blackstock	Washnok, R. D. (Unc)	Groton, S. D.
Stevenson, L. M. (G)	Clemson	Watkins, A. L. (Unc)	Anderson
Stewart, M. (Unc)	Clemson	Watkins, D. H. (CS)	Rock Hill
Stewart, M. B. (G)	Anderson	Watson, J. V. (CS)*	Greenville
Stewart, T. C. (CS)	Clinton	Watson, R. J. (CS)*	Greenville
Stoddard, R. M. (CS)	Pelzer	Watson, W. S. (CS)	Conway
Stogner, L. B. (CS)	Hartsville	Watt, C. K. (CS)	Pelzer
Stokes, C. D. (CS)	Greer	Watt, J. R. (CS)	Pickens
Stokes, T. C. (CS)	Greer	Way, F. M. (CS)	Charleston
Stover, W. W. (CS)	Greenville	Webb, E. A. (CS)*	Myrtle Beach
Strickland, S. G. (CS)	Anderson	Webb, J. E. (CS)	Pittsburgh, Pa.
Stroman, T. H. (CS)	Florence	Weddle, H. E. (CS)	North Charleston
Stroud, E. L. (CS)	Woodruff	Weir, J. M. (CS)	Honea Path
Suber, C. (CS)	Anderson	Weisner, R. R. (CS)	Lancaster
Suggs, J. D. (CS)	Columbia	Welborn, J. (Unc)	Pendleton
Sumerel, W. M. (CS)	Laurens	Weldon, W. W. (CS)	Bennettsville
Sumner, I. L. (CS)	Greenville	Wellmaker, J. A. (CS)	Ninety Six
Sutherland, E. S. (CS)	Newberry	Wells, L. C. (Unc)	Pelzer
Sweeney, L. R. (CS)	Cincinnati, Ohio	Werts, F. M. (CS)	Ninety Six
Tanksley, M. H. (CS)*	Seneca	Wessinger, T. B. (CS)	West Columbia
Tavarone, L. R. (CS)	Jersey City, N. J.	West, W. B. (CS)	Greenville
Taylor, J. A. (CS)	Greenville	Westbury, C. E. (CS)	Murrell's Inlet
Taylor, J. K. (CS)	Lancaster	Westbury, R. A. (CS)	Charleston
Taylor, J. P. (CS)	Batesburg	Wheeler, M. B. (G)	Clemson
Taylor, P. R. (Unc)	Belmont, N. C.	Whiston, G. E. (CS)*	Charleston

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
White, J. R. (CS)	Clinton	Wingo, J. C. (CS)	Union
White, M. W. (CS)	Anderson	Winning, J. R. (CS)	Greenville
White, T. A. (CS)	Clemson	Wipf, A. S. (G)	Greenville
Whitten, W. A. (CS)	Anderson	Wise, D. J. (CS)*	Marion
Whitesides, C. P. (CS)	Sharon	Wise, T. H. (CS)	Greenville
Whitfield, F. A. (CS)	Townville	Witherspoon, B. (CS)	Westminster
Whitlaw, N. O. (CS)	Latta	Witherspoon, J. H. (CS)	Columbia
Whitmire, G. P. (Unc)	Westminster	Witt, T. R. (CS)*	North
Whitmire, M. F. (G)	Walhalla	Wood, F. M. (CS)	Westminster
Wier, J. B. (CS)	Thomason, Ga.	Wood, J. C. (CS)	Dillon
Wild, O. F. (CS)	Charleston	Woodle, A. G. (CS)	Greenwood
Williamon, P. S. (G)	Clemson	Workman, N. J. (CS)	Chattanooga, Tenn.
Williams, E. P. (Unc)	Liberty	Wrenn, R. E. (CS)	Chester
Williams, J. A. (CS)	Asheville, N. C.	Wright, J. E. (Unc)	Florence
Williams, J. L. (CS)	Abbeville	Wright, J. P. (G)	Greenville
Williams, L. A. (CS)	Summerton	Wyche, D. B. (G)	Fletcher, N. C.
Williams, M. A. (CS)	Swansea	Yarboro, J. A. (CS)	Douglas, Ga.
Williams, R. R. (CS)	Rock Hill	Yarborough, B. J. (CS)	Gastonia, N. C.
Williams, S. B. (G)	Anderson	Yarborough, D. A. (CS)	Clinton
Williamson, M. E. (CS)	Donalds	Yarborough, T. C. (CS)	Timmons ville
Williford, R. B. (Unc)	Anderson	Yates, D. N. (CS)	Alexandria, Va.
Willingham, H. M. (CS)	Joanna	Yockel, V. M. (CS)	Jersey City, N. J.
Willingham, T. D. (CS)	York	Yon, D. R. (CS)	Anderson
Willis, K. M. (CS)	Charleston Heights	Yonce, J. E. (CS)	Trenton
Wilson, C. H. (CS)	Sumter	York, F. H. (CS)	Allendale
Wilson, J. F. (CS)	Anderson	Youngblood, J. R. (CS)	Easley
Wilson, L. C. (CS)	Anderson	Zalewski, E. (CS)	Carteret, N. J.
Wilson, W. H. (CS)	Augusta, Ga.	Zink, E. M. (CS)	Lexington, Ky.
Wilson, W. J. (CS)	Calhoun Falls	Zivari, F. (CS)*	Teheran, Iran
Winchester, I. B. (Unc)	Pickens		
Wingard, B. F. (Unc)	Clinton		

LIST OF STUDENTS, FIRST SEMESTER, 1958-1959

The names are arranged in alphabetical order and following the names are symbols indicating classes and courses. The classification of undergraduates is indicated by numerals as follows: 1—Freshman, 2—Sophomore, 3—Junior, 4—Senior. The symbol, PG, indicates a student who has a Bachelor's degree and is pursuing work towards another Bachelor's degree. Special students are designated by the symbol, Unc. The classification of graduate students is indicated by the letter G.

The abbreviations following the numerals refer to the student's major course: A—Agriculture (unclassified as to major course), AgEc—Agricultural Economics, AgEd—Agricultural Education, AgEn—Agricultural Engineering, Agron—Agronomy, AH—Animal Husbandry, Ap Math—Applied Mathematics, ArEn—Architectural Engineering, Arch—Architecture, A&S—Arts and Sciences, Bact—Bacteriology, CrEn—Ceramic Engineering, ChE—Chemical Engineering, Chem—Chemistry, CE—Civil Engineering, Dairy—Dairy, E—Engineering (unclassified as to major course), Ed—Education, EE—Electrical Engineering, Ent—Entomology, For—Forestry, Hort—Horticulture, InEd—Industrial Education, IE—Industrial Engineering, IM—Industrial Management, Math—Mathematics, ME—Mechanical Engineering, NSc—Nuclear Science, Phys—Physics, PlPath—Plant Pathology, Poul—Poultry, Pre-Med—Pre-Medicine, Pre-Vet—Pre-Veterinary, TC—Textile Chemistry, TE—Textile Engineering, TMt—Textile Management, TMg—Textile Manufacturing, TS—Textile Science, Zool—Zoology.

New students admitted in September 1958, are indicated by an asterisk (*); part-time students by two asterisks (**).

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Abbott, B. W. (2 CE)	Sumter	Alexander, J. F. (G AgEc)**	Clemson
Abbott, C. A. (2 Pre-Med)	Seneca	Alexander, L. G. (1 Pre-Med)*	Duluth, Minn.
Abbott, G. W. (2 AgEc)	Darlington	Alexander, R. J. (1 IM)	Franklin, N. C.
Abell, F. E. (3 A&S)	Lowrys	Alfiyadh, H. A. (1 Poul)**	Baghdad, Iraq
Abercrombie, B. R. (4 AgEd)	Fountain Inn	Alford, E. R. (1 Pre-Vet)*	Latta
Abercrombie, J. J. (1 EE)	Gray Court	Alford, J. A. (1 ChE)*	Conway
Able, M. B. (1 Ed)	Clemson	Alford, J. L. (1 AgEd)	Dillon
Ables, H. F. (4 AH)	Seneca	Allen, C. C. (4 Pre-Med)	Moncks Corner
Abrams, N. H. (1 ME)	Charleston Heights	Allen, C. F. (2 ME)	Spartanburg
Abrams, W. H. (1 ME)*	Newberry	Allen, D. R. (1 ME)*	Greenville
Ackerman, C. W. (G AH)**	Orangeburg	Allen, F. G. (Unc)*	Yale, S. D.
Ackerman, L. M. (3 EE)	Saluda	Allen, G. D. (2 ME)	Hendersonville, N. C.
Adabi, F. (4 Arch)	Teheran, Iran	Allen, G. W. (2 Pre-Med)	Gaffney
Adair, B. L. (2 EE)	Joanna	Allen, H. R. (1 EE)*	Darlington
Adamek, R. J. (3 Ed)	Byram, Conn.	Allen, J. L. (1 TMt)	Pendleton
Adams, A. A. (2 TMt)	Union	Allen, J. O. (1 AH)	Orangeburg
Adams, C. F. (1 ME)	Seneca	Allen, M. D. (2 EE)	Spartanburg
Adams, D. M. (1 IM)*	Greenville	Allen, R. S. (1 IM)	Aiken
Adams, E. M. (1 EE)*	Clemson	Allen, W. E. (1 EE)	Latta
Adams, G. S. (4 For)	Spartanburg	Alley, J. H. (G NSc)**	Spartanburg
Adams, H. A. (1 Chem)	Bamberg	Allgood, J. E. (1 AgEn)	Pendleton
Adams, J. L. (2 TE)	Spartanburg	Allison, I. S. (1 A)	Horse Shoe, N. C.
Adams, J. Larry (1 E)*	Fort Mill	Allison, J. M. (1 ME)*	Brevard, N. C.
Adams, Johnny L. (2 EE)	Anderson	Allison, L. M. (1 IM)*	Greenville
Adams, J. M. (2 IM)	Union	Allred, J. H. (3 CE)	Sanford, Fla.
Adams, L. B. (4 CE)	Greenwood	Altman, C. D. (1 AgEd)	Gresham
Adcock, W. T. (1 EE)	Taylors	Altman, J. F. (1 IM)*	North Charleston
Adkison, D. L. (2 IM)	Groveland, Fla.	Altman, W. T. (1 ME)*	Florence
Agro, C. J. (4 IM)	White Plains, N. Y.	Amerson, W. J. (1 EE)*	North Charleston
Ahrens, L. H. (2 Pre-Vet)	Aiken	Anderson, B. W. (2 Agron)	Timmons ville
Aiken, C. A. (1 CE)*	Pickens	Anderson, C. P. (1 E)*	Darlington
Aiken, R. C. (2 TMt)	Columbia	Anderson, G. A. (Unc)**	Clemson
Aiken, W. R. (4 TMg)	Anderson	Anderson, G. D. (1 IM)*	Greenwood
Albright, N. M. (2 For)	Pendleton	Anderson, G. E. (1 CrEn)	Greer
Alewine, I. D. (G TC)**	Anderson	Anderson, G. M. (3 TE)	Greenville
Alewine, W. M. (4 ME)	Taylors	Anderson, H. D. (G Chem)**	Tom's River, N. J.
Alexander, C. E. (1 EE)*	Charleston	Anderson, J. H. (1 Ed)	Abbeville
Alexander, Claude E. (1 IM)	Seneca		
Alexander, F. E. (3 Arch)	Fletcher, N. C.		
Alexander, F. H. (1 Pre-Med)	Seneca		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Anderson, J. M. (1 CE)	Seneca	Baker, J. Clyde (4 AgEc)	Cades
Anderson, J. T. (2 Dairy)	Chester	Baker, L. C. (1 IM)	Columbia
Anderson, N. H. (3 For)	Greenville	Baker, T. S. (3 AH)	Coward
Anderson, P. P. (4 TE)	Tamassee	Baker, W. C. (1 E)*	Aynor
Anderson, R. H. (2 IM)	Anderson	Baker, W. W. (1 Arch)	Florence
Anderson, S. C. (1 IM)	Baltimore, Md.	Balding, W. H. (2 TC)	Travelers Rest
Anderson, T. B. (1 ME)*	John's Island	Baldwin, C. E. (3 Pre-Vet)	Simpsonville
Anderson, T. C. (4 CE)	Greenwood	Baldwin, D. E. (1 ME)*	Meggett
Anderson, W. C. (3 A&S)	Hampton	Baldwin, J. D. (2 TMT)	Enoree
Anderson, W. L. (1 EE)*	Rock Hill	Baldwin, L. E. (1 IE)	Ravenel
Anderson, W. S. (3 ME)	John's Island	Baldwin, W. J. (2 EE & ME)	Spartanburg
Anderson, W. T. (2 CE)	Greenwood	Ballard, H. L. (1 IE)*	Brevard, N. C.
Andrade, G. X. (Unc)	Rio de Janeiro, Brazil	Ballard, R. W. (2 Pre-Med)	Monticello, Ga.
Andreo, C. R. (1 IM)	Leechburg, Pa.	Ballew, C. L. (Unc)**-*	Spartanburg
Andreozzi, P. P. (1 Ed)*	Warren, R. I.	Ballew, J. F. (2 Ed)	Tryon, N. C.
Andrews, R. E. (1 EE)*	Gaffney	Ballew, S. T. (1 CE)*	Newberry
Angel, S. M. (1 Arch)*	Havana, Cuba	Bankett, R. W. (1 ME)*	Salisbury, N. C.
Anthony, C. B. (3 EE)	Shelby, N. C.	Bankhead, J. M. (1 EE)*	Clemson
Anthony, F. H. (1 IM)	Pendleton	Banks, G. L. (4 EE)	Pisgah Forest, N.C.
Anthony, J. W. (TS 1)	Easley	Banks, M. (1 Pre-Med)	Hartsville
Anthony, L. K. (1 TS)*	Easley	Bannister, J. L. (2 ME)	Belton
Apinis, John (3 TC)	Willimantic, Conn.	Banton, M. B. (4 Agron)	Clemson
Arafah, A. K. (4 ME)	Damascus, Syria	Barbery, R. D. (1 EE)*	Laurens
Arant, B. S. (1 Pre-Med)*	Pageland	Barfield, J. D. (2 IM)	Lugoff
Arant, H. T. (4 AH)	Bowman	Barker, J. E. (4 AH)	Westminster
Ardis, C. R. (3 IE)	Pacolet	Barker, R. H. (4 TC)	Washington, D. C.
Arguelles, F. A. (1 ME)	Havana, Cuba	Barksdale, B. E. (2 IE)	Charlotte, N. C.
Ariail, T. M. (1 TS)	Sevierville, Tenn.	Barlow, T. W. (1 AH)*	Smithfield, N. C.
Arisman, C. F. (2 EE)	Greenville	Barnes, G. M. (1 IE)*	Fairfax
Arledge, M. J. (3 ME)	Greenville	Barnes, J. P. (4 Arch)	Florence
Armstrong, E. S. (4 Phys)	Fort Mill	Barnes, W. W. (1 EE)	Greenville
Armstrong, L. L. (1 CE)*	Eddystone, Pa.	Barnett, R. D. (1 ChE)*	Jackson
Arnette, C. G. (1 EE)*	Dillon	Barnett, W. J. (2 ME)	Charleston
Arney, J. N. (1 Pre-Med)	Greenville	Barnhill, R. H. (2 EE)	Columbia
Arnold, C. R. (1 EE)*	Greenville	Barron, C. H. (4 ChE)	Seneca
Arnold, D. A. (2 TMT)	Aiken	Bartee, E. E. (1 AH)*	Meggett
Arnold, R. F. (2 ME)	Yemassee	Bashor, A. L. (3 Ed)	Conway
Arrowood, J. R. (1 ME)*	Spindale, N. C.	Bashor, G. T. (1 ME)*	Conway
Arve, F. (1 A)	Madison	Bashor, M. W. (2 Arch)	Conway
Asbill, H. W. (2 IM)	Columbia	Baskin, W. T. (4 Chem)	Rock Hill
Ashe, J. B. (4 ME)	Rock Hill	Batchelor, O. C. (1 ME)*	Jackson
Ashe, J. N. (1 E)*	Rock Hill	Bateman, J. W. (1 ME)*	Sumter
Ashley, D. E. (1 TS)*	Lancaster	Bates, B. O. (4 Agron)	Williston
Askins, C. B. (1 CE)*	Lake City	Batson, Hoke W. (1 Pre-Med)	Travelers Rest
Atkins, B. J. (1 CE)*	Greer	Baugh, T. E. (1 IM)*	Gastonia, N. C.
Atkinson, D. J. (1 AgEd)	Marion	Baumbush, J. C. (1 ChE)	Eastover
Atkinson, J. B. (G AgEd)**	Rains	Baxley, D. D. (1 AgEn)*	Kingstree
Atkinson, J. D. (1 For)	North Augusta	Baxley, R. W. (1 AH)*	Mullins
Atkinson, M. E. (3 TC)	Spartanburg	Baxter, H. T. (2 IM)	Lincolnton, N. C.
Atkinson, R. O. (1 Pre-Med)*	Lowrys	Bazemore, P. E. (2 ArEn)	Winnsboro
Attaway, C. R. (1 ME)*	Clinton, N. J.	Beal, R. B. (G AgEc)**	Clemson
Ausband, J. C. (4 A&S)	Conway	Beall, J. B. (3 A&S)	Chicago, Ill.
Austell, C. C. (4 IM)	Gaffney	Bean, L. G. (2 EE)	Schenectady, N. Y.
Austell, R. M. (1 CE)	Blacksburg	Beasley, S. T. (2 ChE)	Aiken
Austin, J. T. (1 AgEn)*	Simpsonville	Beason, M. B. (2 EE)	Cliffside, N. C.
Austin, J. W. (3 ChE)	Simpsonville	Beattie, E. P. (1 ME)	Augusta, Ga.
Austin, W. B. (1 EE)*	Spartanburg	Beattie, M. R. (2 CE)	Charleston
Austin, W. R. (4 ME)	Simpsonville	Beaty, F. C. (1 AgEn)*	Chester
Axmann, L. J. (2 Phys)	Anderson	Beaty, J. S. (1 ME)*	Rock Hill
Axmann, R. F. (2 A&S)	Anderson	Beaver, C. W. (2 IM)	Gastonia, N. C.
Aydlette, D. L. (1 Ed)	Charleston	Beaver, P. F. (2 CE)	Kannapolis, N. C.
Ayers, J. K. (1 EE)	Piedmont	Bechtler, A. N. (4 ChE)	Rock Hill
Ayers, J. L. (4 IM)	Piedmont	Beckham, J. E. (2 ME)	Charlotte, N. C.
Babb, W. H. (2 InEd)	Fountain Inn	Beckman, S. W. (1 IM)	Columbia
Baber, R. L. (1 IM)	Howardsville, Va.	Beckum, J. T. (3 IE)	North Charleston
Baeten, G. J. (3 ME)	Clemson	Becest, V. H. (3 IM)	McComas, W. Va.
Bagwell, A. B. (4 EE)	Greenwood	Bedenbaugh, G. C. (2 AgEd)	Leesville
Bagwell, C. C. (3 TE)	Columbus, Ga.	Bedenbaugh, J. R. (3 IE)	Laurens
Bagwell, C. E. (1 For)*	Easley	Begg, G. S. (1 Arch)*	Spartanburg
Bagwell, J. W. (2 ME)	Greenville	Begley, J. F. (4 EE)	Greenville
Bagwell, L. D. (2 IM)	Easley	Behbehani A. M. (3 Arch)	Teheran, Iran
Bailes, J. H. (1 Dairy)	Union	Belan, J. A. (1 CrEn)*	McKees Rocks, Pa.
Bailes, J. K. (2 AgEn)	Union	Belk, J. F. (1 EE)*	Columbia
Bailey, D. L. (1 CrEn)	Decatur, Ga.	Bell, A. G. (4 A&S)	Galivants Ferry
Bailey, J. T. (4 CrEn)	Clemson	Bell, D. R. (1 AH)	Rock Hill
Bailey, R. L. (3 IM)	Barnwell	Bell, J. A. (3 TE)	Gatlinburg, Tenn.
Baker, E. R. (4 Chem)	Brevard, N. C.	Bell, J. E. (1 Ed)	Denmark
Baker, H. J. (3 ChE)	Bristol, Va.		
Baker, J. B. (1 A)*	Albany, N. Y.		
Baker, J. C. (1 TMT)	Warrenville		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Bell, J. L. (4 AgEd)	Conway	Blom, P. C. (2 IM)	Campobello
Bell, M. M. (2 Ed)	Clemson	Bloomquist, D. L. (3 ME)	Hampton
Bell, R. C. (4 IM)	Clemson	Bludau, C. J. E. (3 EE)	Taylors
Bell, R. L. (1 ME)	Savannah, Ga.	Blum, W. M. (1 CE)*	Greenwood
Bellamy, J. S. (1 TMt)	Pawleys Island	Boatwright, R. N. (4 Hort)	Johnston
Bellamy, M. T. (1 ME)	Myrtle Beach	Bobb, C. C. (1 ChE)*	Greenville
Below, G. S. (2 IM)	Abbeville	Bobbitt, E. H. (2 ME)*	Pineville
Belue, G. A. (1 ME)*	Greenville	Bobo, Ben A. (3 IM)	Anderson
Belue, J. C. (3 CrEn)	Greenville	Bofill, J. J. (2 Arch)	Havana, Cuba
Bender, T. L. (1 EE)*	Rock Hill	Bogardus, E. C. (2 IE)	Kinderhook, N.Y.
Benjamin, J. C. (1 ChE)	Liberty	Boggs, G. T. (1 Arch)*	Greenville
Bennett, J. H. (1 AgEn)	Bennettsville	Boggs, J. A. (2 A&S)*	Piedmont
Bennett, John H. (2 Arch)	Cheraw	Boggs, R. D. (1 CE)*	Westminster
Bennett, J. N. (4 Pre-Med)	Walterboro	Boggs, T. L. (4 CE)	Honea Path
Bennett, R. J. (G AgEd)**	Laurens	Bolding, B. N. (1 EE)*	Lyman
Bennett, W. H. (1 EE)*	Ocean Drive Beach	Boles, R. H. (3 IM)	Lexington
Benson, P. H. (2 EE)	Florence	Boling, B. T. (3 EE)	Greenville
Benson, R. D. (1 IM)*	Greensburg, Pa.	Bolt, C. H. (1 Pre-Med)	Laurens
Benston, S. (1 ME)*	Greenville	Bolton, J. L. (3 CrEn)	Greenwood
Benton, W. E. (1 ME)	Myrtle Beach	Bond, R. M. (3 CrEn)	Orangeburg
Benton, W. R. (1 IM)*	Anderson	Boniface, B. R. (1 CE)*	Charleston
Benz, D. J. (3 Arch)	Kenmore, N. Y.	Bonnette, N. K. (1 Arch)*	Neeses
Bergman, D. W. (2 CE)	New Canaan, Conn.	Bonnoitt, R. E. (1 IM)*	Darlington
Bernard, T. S. (2 ME)	Barnwell	Bonzulak, W. J. (2 Ed)	Dumont, N. J.
Berry, C. M. (1 IM)	Spartanburg	Booker, E. P. (3 Arch)	Clemson
Berry, R. R. (3 ME)	Union	Boone, C. W. (2 Dairy)	Saluda
Berry, W. J. (1 ME)*	Duncan	Booth, P. M. (2 AgEn)	Hartsville
Besson, B. G. (3 CE)	North Augusta	Boozer, C. H. (2 IM)	Denmark
Best, M. D. (2 CE)	Hartsville	Boozer, L. D. (1 EE)*	Columbia
Best, S. H. (1 CE)*	Hartsville	Boozer, V. P. (1 CrEn)*	Columbia
Bethea, W. D. (3 ME)	Eutawville	Bordeaux, F. C. (2 ME)	Batesburg
Betsill, H. E. (3 EE)	Arlington, Va.	Bordenkircher, F. E. (4 Arch)	Mount Sterling, Ill.
Bevill, J. D. (1 TS)*	Anderson	Boseman, T. R. (2 EE)	Darlington
Bickerstaff, H. J. (1 CrEn)*	Columbus, Ga.	Bosley, J. E. (2 ME)	Beaufort
Bickley, D. W. (G AgEc)**	Clemson	Bosnak, M. (G Ent)**	Chicago, Ill.
Bigby, L. (3 IM)	Greenville	Bost, E. H. (1 EE)	Myrtle Beach
Bingham, C. D. (1 AgEd)*	Kingstree	Bostick, P. I. (1 ME)*	Marion
Birch, D. L. (G AgEc)**	Clemson	Bostwick, W. M. (2 CE)	Charleston
Bird, R. S. (1 EE)	Florence	Boswell, W. S. (2 IM)	Newnan, Ga.
Bird, S. L. (1 EE)*	Rock Hill	Bowen, B. C. (3 Pre-Med)	Clemson
Biringer, W. M. (1 IE)	St. Petersburg, Fla.	Bowen, T. O. (1 Pre-Med)*	Sumter
Bishop, F. R. (2 EE)	Beaufort	Bowick, T. R. (2 TMg)	Greenwood
Bishop, J. A. (1 For)*	Travelers Rest	Bowie, C. F. (2 EE)	Greenwood
Bishop, J. G. (3 EE)	Travelers Rest	Bowie, D. M. (2 EE)	Abbeville
Bishop, W. A. (1 CE)*	Bananera, Guatemala	Bowie, P. E. (2 Pre-Med)	Liberty
Bissell, G. H. (3 EE)	West Groton, Mass.	Bowman, L. R. (2 IM)	Clemson
Black, C. A. (4 EE)	Gaffney	Bowman, P. W. (4 ME)	Whitmire
Black, D. H. (3 TMg)	Greer	Bowman, R. K. (1 A&S)*	Clemson
Black, J. W. (1 IM)	Swansea	Boyd, J. R. (1 E)*	Keokuk, Iowa
Black, W. W. (1 IM)	Batesburg	Boylston, C. (2 ME)	Sumter
Blackburn, K. F. (3 EE)	Greer	Brackett, H. V. (2 TMg)	Chimney Rock, N. C.
Blackmon, J. B. (1 IM)	Hartsville	Bracknell, J. L. (3 IM)	Plum Branch
Blackstone, C. R. (1 CE)*	Anderson	Bradberry, C. A. (2 Chem)	Abbeville
Blackwell, E. R. (1 TMt)*	Chester	Bradbury, D. W. (G)**	Clemson
Blackwood, W. A. (1 IE)*	Spartanburg	Bradfield, C. A. (4 CE)	Dillon
Blair, H. L. (3 ME)	Greenville	Bradford, J. M. (4 ME)	Lowrys
Blair, L. W. (1 ME)*	Hendersonville, N. C.	Bradham, J. R. (2 For)	Conway
Blair, M. E. (1 CE)*	Greenville	Bradley, T. J. (G Zool)**	Savannah, Ga.
Blair, R. H. (3 Agron)	Howey-in-The-Hills, Fla.	Bradshaw, N. J. (1 IM)*	Belmont, N. C.
Blair, R. J. (3 ChE)	Lancaster	Bragg, J. W. (2 AH)	Columbia
Blakely, F. A. (1 Arch)*	Simpsonville	Bragg, R. J. (2 IE)	Ridgeland
Blakeney, C. R. (2 Pre-Med)	Kershaw	Bramlett, C. D. (2 ME)	Greenville
Blakeney, E. D. (4 ME)	Charleston	Bramlett, W. G. (2 IM)	Laurens
Blakeney, K. C. (1 E)*	Kershaw	Bramlette, G. N. (1 ChE)*	Spartanburg
Blakeney, W. R. (3 ChE)	Hartsville	Branch, J. E. (2 IM)	McConnells
Blanchard, J. E. (1 EE)	Sullivans Island	Brand, J. W. (1 Pre-Med)	Fort Valley, Ga.
Blanchard, R. A. (1 Arch)*	Cheraw	Brandon, Isaac L. (3 CrEn)	York
Blanks, C. H. (Unc)**	Chester	Brandt, F. N. (4 Arch)	Spartanburg
Blanton, F. E. (1 IM)*	Forest City, N. C.	Brank, P. W. (2 EE)	Clemson
Blanton, J. A. (4 TMg)	Forest City, N. C.	Brant, W. S. (1 CE)*	Allendale
Blanton, L. H. (2 AgEd)	Nichols	Braswell, M. P. (3 IM)	Greenville
Blanton, R. G. (2 Ed)*	Ellenboro, N. C.	Bratton, R. C. (4 TC)	Rock Hill
Blease, R. H. (3 Pre-Med)	Columbia	Braun, D. L. (1 EE)*	Atlanta, Ga.
Blease, W. B. (4 CrEn)	Saluda	Bray, T. P. (4 TMg)**	Greenville
		Breazeale, C. D. (1 EE)	Easley
		Breazeale, M. J. (1 A&S)	Pendleton
		Bredenberg, E. H. (1 ME)*	Augusta, Ga.
		Breland, R. F. (3 AH)	Cottageville

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Brewer, A. G. (1 TMt)*	Lake View	Bryant, F. S. (G EE)**	Pendleton
Brewton, D. L. (3 TMg)	Greer	Bryant, J. F. (1 IM)	Spartanburg
Brewton, D. S. (1 Pre-Med)	Greer	Bryant, J. O. (1 ChE)*	Clemson
Brewton, K. L. (4 TC)	Estill	Bryant, L. F. (3 IM)	Orangeburg
Brian, S. B. (1 TS)*	Wellford	Bryce, C. S. (2 EE)	Florence
Brice, J. B. (2 CE)	Woodward	Bryce, G. T. (4 Pre-Med)	Florence
Bridges, B. K. (1 Dairy)	Greenville	Bryson, R. E. (3 AgEn)	Spartanburg
Bridges, G. E. (1 EE)*	Blacksburg	Buchanan, K. R. (2 TMt)	LaFrance
Bridges, J. L. (1 CE)*	Blacksburg	Buchanan, M. L. (1 IM)*	Travelers Rest
Bridges, M. W. (1 IE)		Buchanan, R. H. (2 For)	Columbia
	Rutherfordton, N. C.	Buckley, J. D. (PG CrEn)	Sumter
Bridges, R. D. (1 ME)	Taylors	Buckner, D. A. (G PIPath)**	Johns Island
Bridwell, W. H. (1 EE)*	Rock Hill	Buckner, D. J. (1 AgEc)	Chesnee
Briggs, G. (3 AgEn)	Mars Hill, N. C.	Buffington, J. J. (1 A&S)	Clinton
Brigman, L. W. (1 ChE)*	Greenville	Buford, G. R. (1 ME)*	Clinton
Brissay, C. D. (2 CrEn)	Pendleton	Buie, R. E. (2 ME)	Welcome, Md.
Brissie, A. M. (2 A&S)	Clemson	Bullock, R. A. (1 CE)*	Brevard, N. C.
Britt, J. E. (2 CE)	Greenwood	Bunn, J. L. (1 EE)*	North Charleston
Britt, M. C. (1 ChE)*	Georgetown	Bunnell, D. D. (1 TMt)	Philadelphia, Pa.
Britt, T. H. (3 CrEn)	Georgetown	Burch, D. A. (3 ME)	Savannah, Ga.
Brittain, J. A. (1 AgEd)		Burch, J. E. (1 EE)*	Lake City
	Horse Shoe, N. C.	Burden, C. A. (4 IM)	Piedmont
Broadway, E. H. (1 EE)*	Bishopville	Burdette, J. M. (1 CE)*	Greenville
Broadwell, C. J. (3 IM)	Darlington	Burdette, L. A. (2 Ed)	Easley
Brock, C. E. (G Ed)**	Seneca	Burgess, D. B. (1 ChE)*	Rock Hill
Brock, C. R. (1 ME)*	Seneca	Burgess, J. L. (1 IE)*	Georgetown
Brock, D. (G Math)**	Seneca	Burgess, T. L. (1 TMt)*	Greenville
Brock, J. R. (1 TMt)*	Drayton	Burke, D. K. (2 IM)	Charlotte, N. C.
Brock, L. A. (1 ME)*	Decatur, Ga.	Burley, J. E. (2 TMt)	Walhalla
Brockington, G. B. (3 Dairy)	Clinton	Burnette, B. D. (G PIPath)**	Manning
Brodie, J. L. (2 For)	Columbia	Burnette, C. J. (2 Ed)	Bristol, Va.
Bromley, R. W. (3 EE)	Taylors	Burnette, M. D. (1 E)*	Greenville
Brooks, F. E. (4 ME)	Sandersville, Ga.	Burns, L. M. (1 IM)	York
Brooks, G. S. (1 ChE)*	Lyman	Burns, R. L. (2 ME)	Columbia
Brooks, R. H. (2 Dairy)	Loris	Burnside, B. R. (4 ME)	Chester
Brooks, W. G. (1 ChE)	Loris	Burrell, W. H. (4 Chem)	Startex
Brookshire, K. G. (1 Pre-Vet)*	Greer	Burruss, R. (Unc)	Clemson
Broome, T. R. (1 ME)**	Westminster	Burris, D. M. (4 EE)	Liberty
Browder, L. E. (3 Chem)	Newberry	Burris, J. W. (2 ME)	Pelzer
Brown, A. K. (2 CrEn)	Columbia	Burton, C. J. (1 ME)	Westminster
Brown, A. W. (1 Arch)*	Freeport, N.Y.	Burton, R. C. (1 ME)	Greer
Brown, B. M. (3 TMg)	Walhalla	Burton, T. S. (1 IM)*	Atlanta, Ga.
Brown, B. T. (1 ChE)*	Pacolet	Busbee, C. B. (3 CE)	Cayce
Brown, D. C. (2 ME)	Anderson	Busch, C. F. (1 CE)*	Walhalla
Brown, E. G. (1 ME)*	Columbia	Busher, E. L. (1 CE)	Bronxville, N. Y.
Brown, G. R. (1 ME)	Barnwell	Bushnell, R. L. (2 ME)	Arlington, Va.
Brown, J. D. (2 EE)	Enoree	Butcher, K. R. (1 Dairy)*	Holly Hill
Brown, J. L. (1 ME)	Augusta, Ga.	Butler, C. M. (G EE)**	Hartsville
Brown, J. M. (2 ChE)*	Rock Hill	Butler, J. M. (1 E)*	Rock Hill
Brown, J. P. (3 CE)	Westminster	Buzhardt, W. H. (3 ME)	Edgefield
Brown, John P. (4 ME)	Sedalia	Byars, E. B. (2 ME)	Lowrys
Brown, J. R. (3 ChE)	North Augusta	Byas, H. E. (1 AgEn)*	Asheville, N. C.
Brown, J. W. (1 ME)	Newberry	Byerly, A. J. (1 Chem)*	Hartsville
Brown, K. F. (1 For)*	Georgetown	Byers, R. A. (1 EE)*	Greenville
Brown, L. G. (4 EE)	Pickens	Byrd, B. W. (G Agron)**	Hartsville
Brown, L. S. (3 IM)	Easley	Byrd, J. R. (2 EE)	LaFrance
Brown, M. E. (1 Arch)*	Anderson	Byrd, J. S. (2 ChE)	Hartsville
Brown, Milton E. (4 EE)	Gaffney	Byrd, L. M. (2 ME)	Sharon
Brown, R. L. (3 CrEn)	Greenville	Byrd, R. V. (3 ME)	Sumter
Brown, R. M. (1 For)	Kingstree	Caban, C. H. (1 ChE)*	Spartanburg
Brown, R. T. (1 EE)*	Sumter	Cain, D. L. (3 Tmt)	Slater
Brown, T. R. (1 Arch)	Charleston	Caldwell, T. P. (1 CE)*	Greenville
Brown, T. W. (4 AgEn)	Dacusville	Calhoun, A. M. (1 ChE)*	Clio
Brown, W. B. (3 IM)	Georgetown	Calhoun, C. A. (1 For)*	Dillon
Brown, W. E. (1 CE)	Lake City	Calhoun, O. G. (1 EE)*	Rock Hill
Brown, W. J. (2 EE)	Lexington	Callia, D. A. (3 EE)	Inman
Brown, W. L. (1 EE)*	Laurens	Calvert, L. F. (2 TS)	Greenville
Brown, W. R. B. (3 CrEn)	Florence	Camak, T. M. (G Ed)**	Anderson
Browning, V. S. (3 IE)	Spartanburg	Cameron, T. S. (2 IM)	Jersey City, N. J.
Brownlee, J. C. (1 CrEn)*	Laurens	Campbell, B. D. (3 EE)	Pelzer
Brownlow, L. E. (1 Arch)*	Walhalla	Campbell, G. D. (1 ME)	Clemson
Bruce, J. E. (2 Arch)	Greenville	Campbell, J. M. (4 TE)	Belton
Bruce, M. M. (1 EE)*	Greer	Campbell, J. W. (1 IM)	Lake City
Bruner, W. M. (4 For)	Clemson	Campbell, J. William, 1 IM)	Lugoff
Brunet, W. R. (1 TMt)*	Chester	Campbell, K. W. (3 Chem)	Honea Path
Bruorton, H. B. (2 AgEd)	Georgetown	Campbell, P. E. (Unc)**	Pelzer
Bruton, W. T. (3 ME)	Charlotte, N. C.	Campbell, R. (2 A&S)	Bennettsville
Bryan, E. R. (1 EE)*	Walterboro	Campbell, S. L. (1 CE)	Rock Hill
Bryan, H. O. (PG CE)	Spartanburg	Campbell, T. A. (4 IM)	Clemson
Bryan, J. A. (4 EE)	Conway	Campbell, W. G. (2 ChE)	
Bryan, J. W. (1 Agron)	Luray		Hendersonville, N. C.

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Candler, P. E. (2 Ed)	Rock Hill	Chastain, D. R. (G AgEd)**	Williamston
Cannada, W. M. (1 ME)	Taylor	Chastain, J. B. (G AgEd)**	Pamplico
Cannon, B. P. (1 ME)	Inman	Chastain, R. C. (G AgEd)**	Greer
Cannon, D. C. (4 ME)	Sumter	Chastain, W. H. (G AgEd)**	Mauldin
Cannon, E. S. (3 A&S)	Clemson	Chasteen, H. M. (4 TMg)	Pendleton
Cannon, K. E. (2 TMg)	Marion, N. C.	Chatlin, I. L. (3 IM)	Washington, D. C.
Cannon, O. H. (1 ME)	Summerville	Chatlin, R. H. (1 Ed)	Washington, D. C.
Cantelmo, A. C. (1 Pre-Med)*	Hampton	Cheek, J. D. (1 A&S)*	Anderson
Cantrell, A. F. (1 A&S)	Liberty	Cheslak, W. M. (4 ME)	Carteret, N. J.
Cappelmann, D. A. (1 EE)*	Beaufort	Chestnut, L. M. (1 Pre-Med)*	Cheraw
Capps, B. O. (1 IM)	North Charleston	Chiesa, J. R. (1 Ed)*	Blairsville, Pa.
Carey, J. H. (1 A&S)*	Clemson	Childress, L. E. (1 IM)	Kenmore, N. Y.
Carland, W. S. (1 A)	Fletcher, N. C.	Childress, R. H. (1 IM)	Easley
Carlay, R. L. (2 ME)	Greenwood	Childs, J. W. (2 Pre-Med)	Liberty
Carmichael, D. M. (G Phys)**	Florence	Chlystum, W. K. (2 EE)	Canton, Ohio
Carmichael, G. A. (G Dairy)**	Clemson	Christenbury, L. F. (1 Arch)*	Charlotte, N. C.
Carmichael, N. W. (PG CE)*	Mullins	Christensen, N. (2 EE)	Beaufort
Carmichael, V. L. (3 AgEd)	Johnstown, Pa.	Christine, S. G. (2 EE)	Aiken
Caron, R. L. (1 ME)*	Bethune	Christman, L. P. (2 EE)	North Augusta
Carpenter, J. M. (3 EE)	Easley	Christmas, C. E. (2 IM)	Morristown, Tenn.
Carr, C. R. (3 IM)	Arden, N. C.	Clamp, E. W. (2 Ed)	Salley
Carriker, R. H. (2 Tmt)*	Midland, N. C.	Clancy, T. A. (1 CrEn)*	Barnwell
Carroll, D. T. (4 IM)	West Hendersonville, N. C.	Clardy, T. E. (3 AgEd)	Wampee
Carroll, M. D. (1 EE)	Smoaks	Clark, D. B. (3 AgEn)	Hartsville
Carros, C. G. (1 EE)*	Spartanburg	Clark, D. W. (1 IM)	Union
Carrouth, T. H. (2 IM)	Fort Mill	Clark, F. J. (2 Arch)	Anderson
Carson, B. R. (1 EE)*	Canton, N. C.	Clark, J. C. (1 IM)	Seneca
Carson, C. C. (3 Arch)	Kingsport, Tenn.	Clark, R. M. (3 Pre-Med)	Walhalla
Carson, M. E. (2 CE)	Saluda	Clark, R. N. (3 Ap Math)	Charleston
Carson, V. F. (1 CE)*	Kings Mountain	Clarke, F. I. (3 CE)	Wadesboro, N. C.
Carson, W. D. (1 AH)*	Summerton	Clawson, F. S. (4 IM)	Maplewood, N. J.
Carswell, C. A. (2 EE)	Anderson	Clayton, L. F. (3 Arch)	Florence
Cartee, J. L. (4 IM)	Greenville	Clayton, W. R. (1 AgEc)*	Belton
Carter, C. R. (1 EE)*	Charleston	Clelan, G. B. (2 IE)	Lewistown, Pa.
Carter, D. H. (4 CE)	Union	Clement, J. R. (2 AgEd)	Inman
Carter, D. W. (2 Pre-Med)	Rock Hill	Clement, R. (3 A&S)	Inman
Carter, G. W. (1 Tmt)	Chester	Clement, W. B. (4 IE)	Spartanburg
Carter, J. F. (1 ME)*	Greenville	Clemmer, M. E. (1 For)	Newberry
Carter, M. (2 ME)	Jacksonville Beach, Fla.	Clendening, D. W. (1 A)*	Charles Town, W. Va.
Carter, R. E. (2 For)*	Walterboro	Cleveland, A. J. (1 Pre-Vet)	Matthews, N. C.
Cartrett, R. W. (1 Pre-Med)*	Augusta, Ga.	Cline, C. D. (3 ChE)	Rutherford College, N. C.
Carver, D. K. (2 Ed)	Elkins, W. Va.	Cline, T. A. (1 IM)	Charleston
Case, F. H. (4 EE)	Pisgah Forest, N. C.	Clyburn, H. L. (2 ME)	Camden
Case, W. A. (G AH)**-*	New Ellenton	Coates, J. L. (1 AgEn)*	Ocean Drive
Cassady, J. A. (3 EE)	Camden	Coates, R. C. (3 IM)	Pelzer
Cassidy, D. J. (4 CrEn)	Petersburg, Va.	Cobb, G. P. (1 ME)	Rock Hill
Cater, G. T. (3 TE)	Anderson	Cobb, H. R. (2 Hort)	Columbia
Cato, L. F. (G AH)**	Clemson	Cobb, M. R. (3 EE)	Westminster
Catoe, J. C. (1 Tmt)	Blackstock	Coble, C. G. (1 AgEn)*	Holly Hill
Caughman, J. K. (1 Dairy)*	Lexington	Cochran, A. S. (3 CE)	Pisgah Forest, N. C.
Caughman, R. S. (2 ME)	Lexington	Cochran, J. W. (2 ChE)	Westminster
Causey, J. P. (2 Arch)	Conway	Cofrancesco, F. (1 CE)	Aiken
Causey, R. C. (1 IM)*	Furman	Coggins, A. B. (2 EE)	Spartanburg
Cauthen, H. F. (1 A&S)*	Columbia	Coggins, W. T. (3 EE)	Spartanburg
Cauthen, L. W. (1 ME)*	Lancaster	Coker, C. E. (4 CrEn)	Turbeville
Cecil, A. P. (1 IM)*	Charleston	Coker, P. W. (1 Tmt)	Drayton
Cha, K. D. (PG AgEn)	Suwam City, Korea	Cole, D. H. (1 CE)	Jackson
Chamblee, J. M. (1 AH)	Anderson	Cole, E. E. (2 Ed)	Decatur, Ga.
Chamblee, W. M. (2 ME)	Anderson	Cole, J. L. (1 IM)*	Townville
Chamness, J. W. (1 Tmt)*	Bennettsville	Coleman, B. G. (1 AgEn)*	Saluda
Chandler, C. M. (1 AH)	Gaffney	Coleman, C. B. (1 IM)*	Greenville
Chandler, G. H. (1 Ed)	Hemingway	Coleman, D. L. (4 AgEd)	Latta
Chandler, H. M. (2 IM)	Pelzer	Coleman, F. H. (3 ME)	Laurens
Chandler, T. L. (2 EE)	Greer	Coleman, H. F. (1 IM)	Union
Chaplin, G. C. (1 CE)*	Meggett	Coleman, J. A. (PG EE)	Saluda
Chaplin, W. G. (2 IE)	Hartsville	Coleman, J. L. (2 CrEn)	Melbourne, Fla.
Chapman, C. M. (1 ME)	Hartsville	Coleman, J. W. (G-NSc)**-*	Spartanburg
Chapman, J. I. (1 AgEd)	Luray	Coleman, Joseph W. (2 TMg)	Centenary
Chapman, J. W. (1 ME)*	Lancaster	Coleman, R. A. (1 CE)*	Anderson
Chapman, L. L. (2 EE)*	Winston-Salem, N. C.	Collins, A. B. (3 Ed)	Gaffney
Chapman, R. D. (2 ME)	Anniston, Ala.	Collins, C. J. (1 A&S)*	Greenville
Chappell, T. (1 IM)	Columbia	Collins, E. A. (2 AgEc)	Pageland
Charles, J. T. (1 Hort)*	Spartanburg	Collins, J. C. (1 ME)	Pendleton
Charping, R. G. (Unc)**	Anderson	Collins, K. D. (1 EE)*	Westminster
Chase, M. I. (4 Chem)	Brooklyn, N. Y.		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Collins, L. L. (1 AgEd)	Mullins	Crane, W. S. (1 Phys)*	Spartanburg
Collins, R. (1 CE)*	Orangeburg	Cranford, R. T. (2 TC)	Pineville, N. C.
Collins, R. E. (Unc)**	Easley	Crapps, P. C. (3 For)	Live Oak, Fla.
Collins, T. F. (G Phys)**	Macon, Ga.	Crawford, J. H. (G Hort)**	Clemson
Collins, W. D. (2 AgEn)	Campobello	Crawford, J. W. (1 CE)*	Clover
Colt, B. H. (1 EE)*	Hendersonville, N. C.	Crawford, L. A. (2 Ed)	Clemson
Colvin, R. P. (1 IM)*	Robbinsville, N. C.	Crawford, R. M. (1 CE)*	Clover
Compton, H. W. (3 ChE)	Summit, N. J.	Creach, M. L. (1 TS)	Hartsville
Compton, J. W. (4 A&S)	Laurens	Creech, J. S. (4 EE)	Sumter
Connell, J. A. (3 TMg)	Spartanburg	Creel, J. P. (2 ME)	Conway
Connell, J. H. (1 Phys)	Aiken	Creighton, E. F. (3 ChE)	McCormick
Conner, W. H. (2 ChE)	Timmons ville	Creswell, G. N. (2 Ed)	McCormick
Connor, A. S. (4 ME)	Lamar	Cribb, R. E. (G AgEd)**	Florence
Connor, R. E. (3 Pre-Med)	Lamar	Cribb, T. G. (1 CE)	Greenville
Conwell, F. M. (2 Dairy)	Greenwood	Cribb, V. T. (1 ME)*	Cheraw
Cook, J. D. (2 IM)	Fountain Inn	Critser, R. W. (1 EE)	Charleston
Cook, M. G. (1 Pre-Med)	Kershaw	Crittenden, E. M. (4 IM)	Ware Shoals
Cook, P. A. (2 Hort)	Fort Mill	Crocker, D. E. (1 A&S)	Gaffney
Cook, R. L. (1 EE)*	Greenwood	Crocker, R. E. (1 Ent)*	Spartanburg
Cook, R. W. (4 IM)	Aiken	Crocker, W. B. (2 ME)	Spartanburg
Cook, W. P. (1 IE)*	Woodruff	Croen, E. F. (1 EE)*	Camden
Cooksey, R. H. (1 For)*	Charlotte, N. C.	Croghan, D. L. (1 CrEn)*	Charleston
Cookson, F. E. (G Ed)**	Clemson	Crolley, R. E. (1 TS)*	Columbia
Cooley, B. J. (3 Ed)	Anderson	Cromer, D. H. (1 AgEd)*	Cross Hill
Cooley, J. M. (1 TMT)*	Joanna	Cromer, M. G. (1 CrEn)*	Anderson
Cooper, C. E. (1 Pre-Med)*	Sumter	Cromer, W. G. (4 IM)	Anderson
Cooper, C. R. (2 ME)	Blackville	Crone, J. E. (4 ME)	Piedmont
Cooper, G. T. (1 CE)*	Camden	Cronk, W. S. (G Phys)**	Macon, Ga.
Cooper, H. B. (3 ME)	Blackville	Crook, C. D. (1 IM)	St. George
Cooper, H. F. (G ME)**	Augusta, Ga.	Crook, J. D. (1 CrEn)	Greenville
Cooper, J. W. (2 Arch)*	Newberry	Crook, J. L. (1 IM)	St. George
Cooper, L. P. (1 E)*	Greenville	Crooks, L. L. (3 Chem)	Seneca
Cooper, M. M. (3 CrEn)	Greenville	Crooks, T. L. (2 EE)	Pomaria
Cooper, W. M. (3 EE)	Clemson	Crosby, D. S. (2 ME)	Belton
Cooper, W. N. (3 IM)	Travelers Rest	Crosby, K. D. (3 EE)	Belton
Cope, E. G. (1 For)	Newberry	Cross, A. H. (4 AgEd)	Cross
Copeland, F. S. (1 EE)*	Greer	Cross, H. M. (G Ed)**	Clemson
Copeland, J. C. (1 ME)*	LaFrance	Crotwell, G. P. (2 EE)	Liberty
Copeland, L. B. (4 ME)	Buffalo	Crouch, F. W. (2 Agron)	Batesburg
Corbett, P. H. (2 AgEn)	Columbia	Crouch, M. A. (3 CrEn)	Columbia
Cordileone, L. A. (1 Ed)	Jersey City, N. J.	Crouch, R. H. (1 AH)*	Saluda
Corley, C. E. (2 Pre-Med)	Lexington	Crout, S. B. (1 For)	Swansea
Corley, E. L. (2 IM)	Union	Crow, J. C. (1 ChE)*	Charleston
Corley, G. A. (1 Hort)*	Lexington	Crow, W. R. (2 Ent)	McColl
Corley, R. A. (1 IM)	North Augusta	Crowder, W. A. (2 AgEn)	Lattimore, N. C.
Corley, W. E. (4 IM)	Lexington	Crowe, R. D. (1 IM)**.*	Belton
Corn, J. D. (2 IM)	Spartanburg	Crumpton, B. F. (1 Arch)*	Greenville
Corn, W. R. (1 For)*	Union	Cudd, M. L. (3 EE)	Gaffney
Cornwell, D. F. (1 IM)*	Greenville	Culclasure, J. W. (2 ChE)	St. Matthews
Corpening, A. N. (3 CrEn)	Statesville, N. C.	Cullom, J. E. (3 EE)	Allendale
Corrado, T. G. (3 Dairy)	Paterson, N. J.	Cullum, F. R. (3 ME)	Greenwood
Correal, T. R. (Unc)**.*	Clemson	Culp, J. C. (3 ME)	Lancaster
Cortez, C. E. (1 EE)	Wagener	Culp, W. L. (3 A&S)	Inman
Cory, A. H. (2 CE)	Beaufort	Cummins, J. H. (2 ChE)	Bamberg
Costas, M. W. (2 EE)	Florence	Cunningham, J. F. (2 TMg)	Taylors
Cothran, J. R. (1 Hort)*	Greenwood	Cunningham, R. L. (4 ME)	Taylors
Cothran, O. R. (G AgEd)**	Piedmont	Cureton, J. A. (1 For)*	Greenville
Cotton, J. E. (1 Dairy)	Eastover	Cureton, R. H. (4 A&S)	Clemson
Couch, W. C. (2 TMT)	Chester	Currence, J. C. (1 ME)	Clover
Council, J. R. (1 CrEn)*	Orangeburg	Curry, D. D. (4 TMg)	Honea Path
Counts, K. M. (2 Chem)	Mullins	Curry, W. L. (4 Ed)	Mullins
Counts, O. F. (2 AgEd)	Springfield	Dacus, E. C. (2 EE)*	Greenville
Covington, C. R. (2 IM)	Rock Hill	Dahl, C. L. (1 ME)*	Helena, Montana
Coward, H. C. (1 A&S)	Aiken	Daigneault, D. J. (2 Ed)	Malone, N. Y.
Cowart, E. L. (1 TMT)	Piedmont	Dalton, C. E. (3 EE)	Greenville
Cowart, R. E. (2 Hort)	Columbia	Dalton, R. A. (2 IM)	Pickens
Cox, C. L. (4 IM)	Belton	Damilatis, A. (G ME)*	New York, N. Y.
Cox, D. K. (1 CE)*	Easley	Dance, T. A. (1 For)	Aiken
Cox, J. B. (4 ME)	Greenville	Daniel, J. R. (1 TMT)	Moncks Corner
Cox, J. L. (2 EE)	Seneca	Daniel, M. F. (1 AH)	Clinton
Cox, S. C. (2 EE)	Fairborn, Ohio	Daniels, J. D. (2 EE)	Greenville
Cox, S. W. (4 Ed)	Atlanta, Ga.	Daniels, J. E. (1 EE)*	Conway
Cox, T. L. (4 EE)	Greenville	Danielsen, A. L. (3 IM)	Council Bluffs, Iowa
Cox, W. L. (1 ME)*	Anderson	Dannelly, H. C. (2 ME)	Ehrhardt
Coyle, W. F. (2 EE)	Anderson	Dansby, R. F. (1 EE)*	North Augusta
Craig, H. N. (4 CrEn)	Clover	Dantzler, R. C. (2 EE)	Holly Hill
Craig, H. W. (1 Pre-Med)*	Clover	Darby, L. G. (PG CE)	Charleston
Crane, K. E. (1 IM)*	Walhalla	Darden, N. D. (3 TE)	Albertville, Ala.
		Dargan, Karl (2 For)	Darlington

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Darracott, F. W. (3 ME)	Johnston	Dimsdale, M. J. (1 EE)	Seneca
Davenport, C. L. (1 TMT)	Donalds	Dismukes, W. D. (1 CE)*	Spartanburg
Davenport, C. O. (1 ChE)*	Clinton	Dixon, C. C. (3 Arch)	Mullins
Davenport, J. C. (1 InEd)	Pelzer	Dixon, J. R. (3 Agron)	Columbia
Davenport, R. T. (2 IM)	Horse Shoe, N. C.	Dixon, R. P. (4 EE)	Smyrna
Davenport, T. E. (3 ME)	Kinards	Dobey, J. N. (1 EE)*	Spartanburg
Davey, J. A. (2 IM)	Hendersonville, N. C.	Dodd, W. K. (4 Pre-Med)	Round O
Davidson, J. W. (1 TS)*	Chesterfield	Doggett, M. W. (1 ChE)	Cuero, Texas
Davies, C. E. (2 EE)	Honea Path	Dominick, G. D. (2 For)	Gaffney
Davis, B. E. (1 Ed)	Lancaster	Dominick, J. B. (1 A&S)*	Rock Hill
Davis, C. E. (1 CE)*	Charlotte, N. C.	Donahue, J. T. (1 EE)*	Aiken
Davis, C. H. (3 CE)	West Columbia	Dondero, J. M. (2 CE)	Bellmore, N. Y.
Davis, D. C. (2 CrEn)	Bennettsville	Donelan, J. O. (1 EE)*	Columbia
Davis, D. R. (2 A&S)	Greenville	Donley, P. E. (3 CE)	Greenville
Davis, E. N. (3 Arch)	Atlanta, Ga.	Dorn, P. C. (2 Ed)	McCormick
Davis, E. (4 Chem)	Taylor	Dorrell, A. L. (1 For)*	Kingstree
Davis, H. V. (1 Ed)*	Seneca	Dotterer, W. A. (4 IM)	Charleston
Davis, J. E. (1 Chem)*	Barnwell	Dougherty, D. M. (1 A&S)	New York, N. Y.
Davis, J. H. (1 Phys)*	Clinton	Douglas, C. A. (1 EE)*	Gaffney
Davis, J. R. (1 E)*	Laurens	Douglas, R. E. (1 TMT)*	Greenville
Davis, J. W. (1 IM)*	Cornelia, Ga.	Douglass, C. R. (2 CrEn)	Greenwood
Davis, L. R. (1 EE)*	Wellford	Dover, G. K. (1 ME)*	Lakeland, Fla.
Davis, P. (3 ME)	Columbia	Dowling, O. T. (1 ME)*	Charleston
Davis, P. F. (4 ME)	Norway	Doyon, R. L. (2 For)	Sumter
Davis, R. A. (1 AgEd)	Wadmalaw Island	Drake, C. B. (2 ME)	Anderson
Davis, R. C. (1 ME)	Clemson	Drake, T. M. (2 Ent)	Inman
Davis, R. E. (4 ME)	Pawleys Island	Drayton, W. E. (1 E)*	Georgetown
Davis, T. E. (1 IM)*	Bethune	Dryman, R. L. (2 ME)	Franklin, N. C.
Davis, T. G. (1 For)*	Wadmalaw Island	Duane, J. P. (G Chem)	Charleston
Davis, T. W. (1 IM)	Myrtle Beach	Dubard, W. L. (1 ME)*	Blythewood
Davis, W. T. (3 Arch)	Clinton	Dubay, J. P. (1 TS)*	Lancaster
Davison, R. E. (3 EE)	Rock Hill	Dubis, R. J. (3 CE)	Charleston Heights
Dawkins, J. W. (1 ME)*	Greenville	Dubois, J. I. (1 EE)*	North Charleston
Dawson, D. K. (1 For)*	Georgetown	Dubose, L. M. (1 EE)*	Oswego
Dean, J. L. (1 IM)*	Clemson	Dubose, L. S. (2 AH)	Sumter
Deaton, J. T. (3 Pre-Med)	Lancaster	Duckett, R. J. (G Chem)**	Gainesville, Ga.
Debardelaben, R. P. (2 IndEd)	Conley, Ga.	Duckworth, E. J. (2 CE)	Asheville, N. C.
Deberry, F. W. (3 IM)	Raleigh, N. C.	Dudley, R. E. (1 ChE)*	Galivants Ferry
Debruhl, A. M. (1 ME)*	Union	Dugan, E. N. (1 CE)*	North Charleston
Decker, C. (1 Dairy)*	Hightstown, N. J.	Duke, W. G. (3 Phys)	Greenville
Deer, H. G. (1 EE)*	Pawleys Island	Dukes, H. W. (1 EE)	McCormick
Delk, L. S. (1 ME)*	Bethune	Dukes, M. F. (1 Ed)	Atlanta, Ga.
Dellinger, H. L. (1 CE)*	Tabor City, N. C.	Dunbar, H. R. (1 ME)*	Charleston
Deloach, C. J. (1 Pre-Med)	Walterboro	Duncan, C. D. (1 TMT)*	Enoree
Deloach, C. S. (1 EE)*	Columbia	Duncan, J. T. (1 IM)	Rock Hill
Deloach, J. G. (1 A&S)*	Clemson	Duncan, M. F. (1 E)*	Greenville
Deloach, W. C. (3 CE)	Columbia	Dunkelberg, D. S. (3 A&S)**	Clemson
Delp, R. G. (3 CrEn)	Greenville	Dunkelberg, J. S. (3 AgEn)	Clemson
Demoor, M. A. (1 ChE)*	Lavonia, Ga.	Dunlap, D. J. (1 CrEn)*	North Charleston
Demott, A. G. (1 Ed)	Montvole, N. J.	Dunlap, J. R. (1 TS)*	Lancaster
Dempsey, J. H. (3 A&S)	Lyman	Dunlap, J. T. (1 ME)*	N. Miami, Fla.
Dempsey, R. M. (2 CrEn)*	Marysville, Calif.	Dunn, J. H. (3 ME)	Anderson
De Navarra, F. (2 AgEn & CE)	Havana, Cuba	Dunsmoor, D. E. (1 ME)*	Charleston
Dennis, C. W. (1 CE)*	Beaufort	Dupree, R. H. (G)***	Tamassee
Dennis, F. S. (4 ME)	Linwood, N. C.	Durant, J. A. (2 For)*	Lynchburg
Dennis, T. W. (4 CE)	Johnsonville	Durham, G. H. (1 AgEd)*	Piedmont
Densman, M. H. (2 EE)	Blackville	Durham, J. W. (Unc)**	Pickens
Derrick, D. G. (2 ME)	Fort Mill	Durham, R. F. (2 ME)	Walterboro
Derrick, T. V. (2 Chem)	Walhalla	Durham, W. F. (3 CE)	Greenville
Desimone, R. L. (1 Ed)	Avonmore, Pa.	Duritzo, P. (4 CE)	Greer
Devane, C. B. (4 IM)	Florence	Duvall, B. F. (1 ME)	Greenwood
Deveaux, J. M. (2 EE)	Charleston	Duvall, G. L. (4 A&S)	Cheraw
Dewitt, B. L. (1 Ed)	Lake City	Duvall, S. E. (1 CE)	Greenville
Dewitt, J. W. (1 IM)	Pamplico	Dyar, J. L. (1 IM)	Clemson
Diarbekirian, M. O. (2 TMT)	Buenos Aires, Argentina	Dyar, L. W. (1 Pre-Med)*	Central
Dickerson, R. C. (1 EE)	Greenville	Dyches, F. D. (1 Pre-Med)*	Beaufort
Dickinson, R. F. (3 Arch)	Orangeburg	Dyches, K. B. (1 IM)	Williston
Dickson, J. T. (1 IM)	Florence	Dye, F. D. (3 EE)	Forest Park, Ga.
Diggs, L. E. (1 EE)*	Lake City	Eaddy, D. W. (4 Agron)	Lake City
Dill, C. (4 Ed)	Alexandria, Va.	Eaddy, J. G. (1 Dairy)*	Manning
Dill, D. O. (1 CrEn)*	Alexandria, Va.	Eaddy, J. M. (3 Chem)	Manning
Dillard, B. V. (2 A&S)	Anderson	Eaddy, R. D. (4 TE)	Johnsonville
Dillard, G. C. (1 A)*	Charleston	Eaddy, V. S. (3 AgEd)	Lake City
Dillon, V. A. (2 CrEn)	Mount Hope, W. Va.	Eades, J. R. (2 CE)	Liberty
		Eargle, E. S. (1 AgEd)	Leesville
		Earle, J. E. (4 A&S)	Walhalla
		Earle, T. P. (G Ag Ed)**	Central
		Eason, H. L. (G AH)**	Clemson

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Easterlin, W. R. (1 IM)*	North Charleston	Falls, W. R. (1 CE)*	Shelby, N. C.
Eaton, W. K. (2 A&S)	Florence	Fanning, J. (4 ME)	Norway
Eberhart, T. R. (3 A&S)	Tarentum, Pa.	Fanning, J. E. (3 Agron)	Springfield
Eckard, W. F. (1 Phys)*	Charlotte, N. C.	Fant, R. S. (3 For)	Clemson
Eddins, W. S. (1 For)	Easley	Farabow, F. F. (4 ChE)	Charleston
Edens, C. D. (2 IE)	Pickens	Faris, J. T. (3 ME)	Rock Hill
Edens, M. U. (4 IM)	Dillon	Farmer, J. Q. (3 AgEn)	Florence
Edge, A. D. (2 ChE)	Duncan	Farr, W. H. (1 ME)	Easley
Edmonds, E. A. (2 Arch)**	Asheville, N. C.	Farr, W. W. (1 ME)*	Augusta, Ga.
Edmonston, T. G. (2 A&S)	Washington, D. C.	Faulkenberry, C. C. (2 A&S)	Clemson
Edmunds, B. (1 IM)*	Columbia	Felder, L. E. (2 A&S)*	Summerton
Ednie, E. L. (3 InEd)	Saltsburg, Pa.	Felder, R. P. (1 AH)	Summerton
Edwards, J. (4 IE)	Laurens	Fellers, L. G. (1 For)*	Prosperity
Edwards, J. B. (2 CrEn)*	Dallas, Texas	Fennessy, R. J. (1 EE)*	Charleston Heights
Edwards, J. C. (4 CE)	Cowpens	Ferguson, J. E. (2 EE)	Seabrook
Edwards, L. R. (3 AgEd)	Landrum	Ferguson, J. G. (2 TMT)	York
Edwards, M. W. (1 EE)	Sumter	Ferguson, J. L. (1 IM)	North Augusta
Edwards, N. L. (1 A&S)*	Clemson	Ferguson, S. T. (1 AH)	York
Edwards, T. D. (1 AH)*	Elloree	Ferguson, W. C. (1 EE)*	Rock Hill
Edwards, T. E. (2 IM)	Greenville	Fetters, T. T. (3 ChE)	Charleston
Edwards, W. F. (4 IM)	Villa Rica, Ga.	Few, J. (1 EE)	Easley
Edwards, W. R. (1 E)*	Inman	Few, J. D. (1 EE)*	Greer
Edwards, W. W. (3 CrEn)	Saluda	Few, J. I. (2 Arch)*	Mooresville, N. C.
Efird, J. S. (1 EE)*	Memphis, Tenn.	Few, W. E. (2 Ed)	Rock Hill
Efstatos, N. (3 EE)	Hastings-on-Hudson, N. Y.	Field, D. H. (1 ME)*	Easley
Elder, H. W. (1 Ent)	Manning	Finch, L. G. (1 Ed)	Dillon
Elder, K. L. (2 EE)	Greenville	Fincher, H. T. (1 IM)	Columbia
Eleazer, J. B. (1 ME)	Spartanburg	Fink, N. (1 IM)*	Brookline, Mass.
Ellias, R. G. (1 ME)*	Bennettsville	Finklea, R. W. (2 CE)	Pamplico
Eller, B. F. (1 CE)*	Kingsport, Tenn.	Finley, C. M. (1 ME)	Slater
Ellerbe, J. W. (2 CE)	Charleston	Finley, J. (3 CrEn)	Laurens
Elliott, D. F. (2 AgEn)	Cassatt	Finley, T. F. (1 Pre-Med)*	Easley
Elliott, J. G. (2 ME)	Capeville, Va.	Finley, W. C. (1 AH)*	Laurens
Elliott, K. G. (1 AgEd)*	Loris	Finney, D. B. (1 ME)	Beaufort
Elliott, L. T. (1 Agron)*	Rimini	Fisher, A. G. (1 ME)*	Rock Hill
Ellis, R. S. (4 IM)	Augusta, Ga.	Fisher, L. L. (1 EE)*	Hickory, N. C.
Ellis, W. R. (2 Phys)	Greenville	Fisher, M. E. (Unc)**	Pickens
Ellison, A. A. (4 IM)	Anderson	Fisher, R. J. (2 TMg)	Fairmont, N. C.
Ellisor, D. B. (1 For)*	Irmo	Flake, C. J. (1 For)*	Swansea
Elmore, D. S. (2 TMg)	Gaffney	Flanagan, R. M. (4 CE)	Bowling Green
Elmore, F. L. (4 CE)	Crouse, N. C.	Fleming, S. H. (3 TMg)	Ora
Elmore, H. A. (3 IE)	Charlotte, N. C.	Fletcher, M. E. (Unc)**	Anderson
Elrod, A. W. (1 IE)	Central	Fletcher, W. D. (2 ME)	McColl
Elrod, B. R. (PG IM)	Piedmont	Flowers, B. J. (1 TMT)*	Lancaster
Elrod, T. W. (2 AgEd)	Anderson	Flowers, C. R. (1 AgEn)	Sanford, Fla.
Emory, M. F. (1 IM)*	Lancaster	Floyd, B. L. (2 IM)	Columbia
Emory, W. G. (4 TE)	Spartanburg	Floyd, C. W. (3 ChE)	Galivants Ferry
Engel, K. F. (1 Ed)*	Edgewater, N. J.	Floyd, G. G. (2 TS)*	Clinton
Entrekin, W. N. (1 IE)	Fairfax, Ala.	Floyd, J. B. (2 EE)	Charleston Heights
Epps, A. L. (3 For)	Kingstree	Floyd, J. R. (3 CrEn)	Greenville
Epting, R. A. (1 A&S)	Clemson	Floyd, R. C. (1 EE)*	Greenville
Ergle, W. D. (2 ChE)	Spartanburg	Floyd, S. W. (1 IM)*	Greenville
Ervin, J. R. (2 ChE)	Florence	Fogle, D. B. (1 For)*	North
Ervin, R. D. (2 ME)	Greenville	Fogle, J. B. (1 ChE)*	Cameron
Erwin, R. M. (4 IM)	Laurens	Fogle, J. R. (1 For)	North
Erwin, W. R. (1 ChE)*	Clio	Folk, H. F. (1 Pre-Med)*	Fairfax
Eskridge, W. F. (3 CE)	Florence	Folk, K. S. (PG CrEn)	St. Petersburg, Fla.
Estelle, D. P. (1 Pre-Med)*	Cameron	Ford, C. G. (1 CE)*	Florence
Estes, B. N. (3 Pre-Med)	Clemson	Ford, P. T. (1 EE)*	Dillon
Etheredge, T. J. (2 A&S)	North	Ford, W. Jack (1 CE)*	Arcadia
Ethridge, J. L. (4 IM)	Hartwell, Ga.	Ford, W. Jerry (1 IM)*	Greenville
Etters, J. N. (3 TC)	Chester	Fore, L. B. (1 For)	Latta
Eubanks, C. E. (2 TMT)	Lyman	Forest, R. P. (1 EE)	Greenville
Eubanks, H. L. (3 IE)	Spartanburg	Fort, W. T. (3 IE)	Sumter
Evans, B. A. (2 TC)	Anderson	Fortson, H. S. (4 EE)	Bowman, Ga.
Evans, E. (2 EE)	Manning	Foster, C. L. (2 A&S)	Roebuck
Evans, H. A. (1 ME)*	Sumter	Foster, C. W. (4 IM)	Greenville
Evatt, S. Y. (1 Ed)*	Newry	Foster, F. M. (1 CE)*	Spartanburg
Every, A. L. (1 TMT)*	Rock Hill	Foster, L. E. (1 ME)*	Seneca
Every, J. G. (1 CE)*	York	Foster, R. L. (1 TS)*	North Charleston
Ezell, D. O. (1 A)*	Chesnee	Foster, W. H. (2 EE)	Gaffney
Fagan, J. A. (1 Pre-Med)*	Campobello	Foster, W. H., Jr. (2 Ed)	Westminster
Faile, C. D. (4 IM)	Fort Mill	Foster, W. K. (1 CE)*	Jonesville
Faile, D. W. (3 TMg)	Kershaw	Fowler, C. M. (4 TMg)	Liberty
Fain, M. N. (1 ChE)*	Spartanburg	Fowler, C. W. (1 E)*	Rock Hill
Fair, V. V. (3 EE)	Gastonia, N. C.	Fowler, D. E. (3 Pre-Med)	Fountain Inn
Fairey, V. S. (1 AH)	Orangeburg	Fowler, J. F. (1 Ed)	Campobello
Falls, B. L. (1 IM)*	Charlotte, N. C.	Fowler, M. E. (2 A&S)	Anderson
		Fowler, M. L. (1 ME)*	Atlanta, Ga.

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Fox, B. S. (4 TMg)	Easley	Gause, L. A. (1 Pre-Vet)*	St. Stephens
Fox, E. H. (2 EE)	Greer	Geddings, J. J. (1 EE)*	Spartanburg
Fox, J. M. (4 TC)	Inman	Gentry, C. F. (3 Arch)	Greenville
Foxworth, B. K. (1 E)*	Dillon	Gentry, F. D. (G)**	Seneca
Foxworth, G. M. (1 EE)	Sumter	Gentry, J. E. (3 EE)	Charleston
Foxworth, L. O. (PG)**	Pendleton	George, E. D. (1 IM)	Aiken
Foxworth, W. P. (3 EE)	Oakley	George, L. E. (3 IM)	Aiken
Foy, T. P. (3 EE)	Greenville	George, W. H. (4 IM)	Aiken
Frady, J. C. (1 CE)*	Walhalla	Georgion, G. D. (1 IE)	Rutherfordton, N. C.
Fralick, B. D. (3 ME)	Bamberg	Gerken, R. G. (4 EE)	Savannah, Ga.
Fralick, T. R. (1 EE)*	Bamberg	Gerrard, L. T. (1 IM)	Anderson
Frampton, C. H. (2 ME)	North Charleston	Gettys, J. R. (1 ChE)*	McCormick
Francis, L. E. (1 CE)*	Spartanburg	Gettys, W. E. (3 A&S)	Union
Francis, S. C. (2 IM)*	Grover, N. C.	Gibbons, W. H. (4 A&S)	Hartsville
Franks, D. B. (1 TMt)*	Laurens	Gibbons, W. W. (1 InEd)	McKeepsort, Pa.
Frasca, A. (2 CE)	Lynn, Mass.	Gibbs, E. D. (2 IE)	Augusta, Ga.
Freed, W. W. (4 TE)	Aiken	Gibbs, E. M. (1 IM)	Murphy, N. C.
Freeman, C. L. (2 TMT)	Rutherfordton, N. C.	Gibson, B. C. (1 CE)*	Easley
Freeman, C. R. (1 ME)*	Sumter	Gibson, C. C. (2 IM)	Pickens
Freeman, E. L. (4 Dairy)	Sumter	Gibson, C. S. (2 ME)	Georgetown
Freeman, James P. (2 CE)	Dacusville	Gibson, E. G. (2 IM)	Greer
Freeman, John P. (1 CE)	Charleston Heights	Gibson, G. A. (1 Arch)	Denmark
Freeman, L. B. (1 CE)*	Marietta	Gibson, G. E. (1 Pre-Vet)*	Florence
Freeman, W. E. (1 IM)*	Greenville	Gibson, J. C. (1 IM)	Denmark
Freiday, T. J. (1 IM)	Aiken	Gibson, M. W. (3 Dairy)	Richburg
Frick, D. F. (4 Chem)	Columbia	Gibson, T. P. (2 Pre-Vet)	North Charleston
Frink, W. B. (1 ME)*	Richland	Giles, J. D. (1 EE)	Anderson
Frost, E. M. (3 A&S)	Aiken	Gillespie, H. G. (2 Pre-Med)	Norris
Frye, J. O. (1 AgEc)	Galivants Ferry	Gillespie, K. M. (2 ME)	Liberty
Fulghum, W. S. (1 A&S)*	Savannah, Ga.	Gilliam, D. E. (2 ME)*	Brevard, N. C.
Fullbright, G. M. (1 ME)*	Belton	Gilliam, H. L. (4 AgEn)	Brevard, N. C.
Fuller, J. T. (2 CrEn)	Columbia	Gilliland, A. D. (1 Arch)*	Kings Mountain, N. C.
Fuller, L. P. (3 ME)	Fort Mill	Gilliland, C. H. (4 EE)	Drayton
Funderburk, O. F. (1 EE)*	Greenville	Gilliland, E. K. (1 Ed)*	Clemson
Fusselle, E. G. (2 ME)	North Augusta	Gilmer, E. D. (1 IM)*	Taylors
Gable, P. K. (1 EE)*	Belton	Gilreath, C. (1 IM)	Greenville
Gable, W. N. (1 IM)	Abbeville	Gilreath, J. A. (G Phys)	Greenville
Gaillard, L. D. (1 AgEd)*	Pelzer	Gilstrap, B. J. (2 TS)	Belton
Gales, A. T. (1 ME)*	Marion	Ginn, J. C. (1 Ed)	Westminster
Galloway, R. H. (3 EE)	Greenwood	Ginn, W. P. (2 InEd)	Varnville
Gallup, E. L. (3 IM)	Sumter	Glasgow, J. C. (4 TE)	Conway
Galway, J. H. (1 IM)	Greenville	Glass, R. P. (1 AgEd)	Greensboro, Ga.
Gambrell, L. A. (1 EE)	Pendleton	Glenn, D. L. (4 EE)	Jenkinsville
Gandy, B. F. (2 Agron)	Society Hill	Glenn, M. D. (1 ChE)*	Greenville
Gantt, B. L. (1 Ed)*	Cateechee	Glenn, T. W. (2 IM)	Laurens
Gantt, J. G. (1 Pre-Med)	Rock Hill	Glover, C. J. (3 EE)	Johns Island
Gantt, L. O. (4 IM)	Wagener	Glover, H. B. (4 A&S)	Gainesville, Ga.
Gardner, R. K. (1 ME)*	Hartsville	Gobble, R. D. (4 ME)	Spartanburg
Gardner, T. E. (1 IM)*	Salisbury, N. C.	Goble, R. L. (4 ME)	Pine Castle, Fla.
Gardner, W. H. (2 ME)	Fort Lawn	Goblet, G. R. (2 ME)	Mt. Pleasant
Garland, D. H. (1 InEd)	Tamassee	Godsey, J. C. (1 EE)*	Greenwood
Garmon, W. M. (G AgEc)*	Concord, N. C.	Godshall, S. R. (4 IM)	Columbia
Garner, C. P. (2 ME)	Greenville	Godwin, D. (3 AgEn)	Scranton
Garner, H. T. (2 ME)	Greenville	Goff, C. W. (3 IM)	Columbia
Garner, R. T. (2 CrEn)	Greenville	Goff, J. E. (3 AH)	Saluda
Garren, C. D. (2 ChE)*	Brevard, N. C.	Goff, J. M. (2 Ed)	Saluda
Garrenton, A. E. (2 ChE)*	Sumter	Goff, W. D. (1 For)	Saluda
Garrett, B. P. (1 ME)*	Fountain Inn	Goforth, B. W. (3 IE)	Gaffney
Garrett, H. A. (1 Arch)*	Pickens	Goforth, H. D. (3 Pre-Vet)	Gaffney
Garrett, J. A. (Unc)**	Clemson	Goforth, J. E. (1 EE)*	Gaffney
Garrett, J. T. (2 TC)	Anderson	Goins, J. D. (1 ME)*	Easley
Garrett, P. T. (1 ME)**	Anderson	Goins, R. E. (1 ChE)*	Charlotte, N. C.
Garris, D. W. (2 IM)	Ruffin	Golden, J. C. (2 Ed)	East Tallassee, Ala.
Garris, E. R. (2 ME)	Brunswick, Ga.	Gonzalez, A. A. (2 ME)*	Encrucijada, Cuba
Garrison, C. H. (2 EE)	Fort Mill	Gooding, R. W. (4 Ent)	Clemson
Garrison, D. W. (4 EE)	Rock Hill	Goodman, H. L. (1 TS)*	Chester
Garrison, H. C. (4 EE)	Hartsville	Goodman, L. M. (2 IM)	Silver Spring, Md.
Garrison, J. K. (2 IE)	Piedmont	Goodman, W. S. (2 For)	Clemson
Garrison, J. R. (2 InEd)	Calhoun Falls	Goodson, T. H. (1 CE)*	Hartsville
Garrison, T. R. (1 EE)	Anderson	Goodwin, J. C. (1 IM)	Greenville
Garrison, W. G. (1 IM)	Anderson	Gordon, R. K. (1 TS)	Lancaster
Garvin, J. L. (2 ME)	Yonges Island	Gore, J. E. (1 E)*	Galivants Ferry
Gaskill, K. V. (1 EE)	Central	Gore, J. G. (2 Agron)	Loris
Gaskins, L. O. (3 ME)	Spartanburg	Gossett, D. C. (1 IM)	Fort Mill
Gaskins, V. L. (2 TS)	Chesterfield	Gossett, R. W. (1 TMt)*	Fort Mill
Gatch, C. T. (3 AgEn)	Yemassee		
Gaulden, J. A. (3 ME)	Laurens		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Gowan, D. R. (G Agron)**	Inman	Haischer, D. H. (1 A&S)	Clemson
Graham, B. C. (1 For)*	Nichols	Hall, C. E. (4 EE)	Travelers Rest
Graham, C. E. (4 EE)	Laurens	Hall, E. M. (3 EE)	Iva
Graham, C. G. (3 ME)	Seneca	Hall, F. M. (2 CE)	Elberton, Ga.
Graham, D. L. (1 CrEn)*	Greenville	Hall, G. T. (4 EE)	Springfield
Graham, J. B. (1 CE)	Chester	Hall, J. B. (1 EE)*	Lake Toxaway, N. C.
Graham, J. S. (Unc)**	Clemson	Hall, J. F. (4 IM)	North Charleston
Graham, O. G. (3 A&S)	Seneca	Hall, J. W. (2 Dairy)	Richburg
Grainger, J. A. (1 AgEd)	Loris	Hall, M. W. (1 Tmt)*	Inman
Gramling, F. H. (3 CE)	Orangeburg	Hall, R. B. (1 A&S)	Pendleton
Grant, C. G. (1 EE)*	Chester	Hallman, D. F. (3 ChE)	Ward
Grant, E. H. (1 Tmt)	Chester	Halsey, A. O. (2 IM)	Charleston
Grant, R. H. (3 ME)	Rock Hill	Ham, C. K. (2 EE)	Florence
Grant, Tony D. (1 Chem)*	Ninety Six	Ham, R. F. (4 EE)	Florence
Grant, Troy D. (3 TC)	Greenville	Ham, W. A. (1 ME)*	Charleston Heights
Grant, W. A. (2 AgEc)	Andrews	Hamilton, D. R. (4 IM)	Seneca
Grantham, L. D. (1 Pre-Med)*	Dillon	Hamilton, J. E. (3 AgEn)	Conway
Gravely, E. G. (4 For)	Seneca	Hamilton, J. W. (1 ME)*	Edgefield
Gravely, H. E. (3 CE)	Walhalla	Hamilton, L. C. (G Hort)**	Clemson
Gravely, M. K. (1 For)*	Seneca	Hamilton, P. M. (4 ME)	Silver Spring, Md.
Graves, W. H. (1 ME)	Greenville	Hamilton, W. J. (2 EE)	Hendersonville, N. C.
Gray, C. H. (1 Hort)*	Inman	Hammett, W. D. (1 TS)*	Inman
Gray, G. G. (4 CrEn)	Greenville	Hammond, J. O. (1 EE)*	Charleston Heights
Gray, J. W. (2 CE)	Greenville	Hancock, R. C. (1 ME)*	Camden
Gray, M. H. (3 ChE)	Atlanta, Ga.	Hand, J. M. (4 IM)	Easley
Gray, N. P. (1 ChE)*	Clemson	Hanks, J. C. (3 Ed)	Anderson
Grdijan, J. (4 IM)	Rillton, Pa.	Hanna, M. G. (1 CE)*	Greenwood
Green, E. A. (1 Pre-Med)	Dillon	Hannah, J. L. (1 EE)*	Pelzer
Green, W. K. (2 AH)	Kingstree	Hanner, T. G. (3 Pre-Med)	Columbia
Greenberg, A. S. (1 ME)*	Brooklyn, N. Y.	Harbin, T. W. (1 ME)*	Brevard, N. C.
Greene, C. L. (3 TE)	Thomson, Ga.	Harbison, R. A. (1 EE)*	Spartanburg
Greene, H. F. (4 Phys)	Greenville	Harden, D. (4 IM)	Seneca
Greene, O. J. (1 IE)*	Charleston	Hardwick, J. O. (1 Arch)*	Florence
Greene, W. O. (1 CE)*	La Grange, Ga.	Hardy, K. M. (1 CE)*	Westminster
Greenman, W. C. (1 Pre-Med)*	Beaufort	Hardy, R. W. (1 EE)	Anderson
Greer, D. R. (2 Tmt)	Spartanburg	Hare, R. L. (1 EE)*	Ward
Greer, J. E. (2 CE)	Greenville	Harkey, C. L. (4 InEd)	Wadesboro, N. C.
Greer, M. C. (3 Arch)	Swansea, Mass.	Harley, J. L. (2 CE)	Pineville, N. C.
Greer, R. B. (2 EE)	Fairforest	Harley, R. G. (4 Ed)	Orangeburg
Greeseon, T. D. (1 ChE)*	Greenwood	Harley, R. L. (2 For)	Reevesville
Gregory, J. E. (2 EE)	Santuck	Harlee, R. O. (2 For)	Florence
Gressette, T. P. (3 Ent)	St. Matthews	Harmon, J. H. (1 ME)*	Lexington
Grice, W. C. (1 E)*	West Columbia	Harmon, J. W. (2 CE)	Myrtle Beach
Griffin, F. G. (1 EE)	Louisville, Ky.	Harmon, L. H. (2 For)	Newberry
Griffin, J. C. (3 IM)	Travelers Rest	Harmon, L. R. (3 EE)	Lexington
Griffin, J. H. (3 AH)	Greenwood	Harmon, T. S. (3 Agron)	Lexington
Griffin, R. Warner (1 TS)	Lancaster	Harper, G. E. (2 ME)	Walhalla
Griffin, R. Watson (3 Arch)	Dillon	Harper, J. A. (1 CE)*	Seneca
Griffin, Robert W. (2 ME)	Florence	Harper, J. C. (3 EE)	Martin
Griffith, R. H. (1 ME)*	Greenville	Harper, R. C. (1 EE)*	Marion
Griffith, W. B. (1 E)*	Greenville	Harper, T. H. (1 IM)*	Lancaster
Griggs, G. B. (2 Tmt)*	Travelers Rest	Harrell, G. P. (1 InEd)	Florence
Grishaw, W. E. (2 EE)*	Clemson	Harrell, J. W. (1 For)*	Greenville
Grooms, J. O. (G Chem)	North Charleston	Harris, B. J. (1 E)*	Rock Hill
Groover, R. J. (4 EE)	Florence	Harris, G. W. (2 AgEc)	Ridgeland
Gross, A. L. (2 For)*	Columbia	Harris, H. L. (1 IM)*	Sumter
Grover, J. R. (Unc)*	Central	Harris, J. C. (1 EE)*	Walhalla
Grubbs, A. M. (2 AgEn)	Barnwell	Harris, J. Edward (2 ME)*	Charlotte, N. C.
Gryder, P. O. (1 EE)*	Rock Hill	Harris, J. Edwin (1 ChE)*	Fort Mill
Gue, T. B. (1 A)*	Orangeburg	Harris, J. W. (1 ME)*	Blacksburg
Guerry, W. T. (1 ME)	North Charleston	Harris, M. K. (3 IM)	Erwin, Tenn.
Guest, J. D. (2 EE)	Cowpens	Harris, R. T. (G AgEd)**	Clover
Guggino, J. G. (G Ed)**	Clemson	Harris, T. B. (1 IM)	Pelzer
Guimaraes, S. (Unc)**.*	Rio de Janeiro, Brazil	Harrison, L. W. (1 Ed)	Walhalla
Guinn, G. C. (3 TE)	Camden	Harrison, R. O. (1 Chem)*	North Augusta
Gunnin, E. A. (1 Chem)*	Clemson	Harrop, J. B. (3 CrEn)	Camden
Gurley, L. G. (2 ME)	Goldsboro, N. C.	Harry, J. A. (1 Tmt)*	Grover, N. C.
Guthrie, N. C. (1 TS)*	Charlotte, N. C.	Hart, J. W. (1 CE)	Elmhurst, N. Y.
Guy, G. (1 Phys)*	Greenville	Hart, T. E. (1 CE)*	New York, N. Y.
Gwinn, J. H. (1 Pre-Med)*	Liberty	Harter, W. T. (4 ME)	Ninety Six
Hagood, C. C. (1 TS)*	Easley	Hartman, D. H. (4 ME)	Greenville
Hagood, R. M. (2 A&S)	Marietta, Ga.	Hartney, E. C. (4 ME)	Atlanta, Ga.
Hahn, T. M. (1 ChE)	McColl	Hartsell, F. D. (3 IM)	Seneca
Haigler, G. I. (1 ChE)*	Cameron	Hartzog, J. V. (2 Chem)	Reevesville
Haile, C. N. (2 EE)	Columbia	Hartzog, R. C. (2 TC)	Blackville
Hair, J. A. (1 Pre-Vet)*	White Pond	Harvey, C. H. (1 TS)	Summerville
Hair, R. L. (3 EE)	Wedgefield		

Name and Course	Address	Name and Course	Address
Harvey, D. K. (1 IM)	Greer	Herr, T. F. (1 Arch)	Arlington, Va.
Harvey, D. W. (1 ME)	Fairfax	Herring, J. E. (4 IM)	Easley
Harvey, F. V. (2 IM)	Beaufort	Hetrick, B. E. (Unc)*	Anderson
Harvin, R. T. (2 ME)	Hartsville	Hetrick, J. P. (G CE)	Anderson
Haskell, A. S. (2 A&S)	Clemson	Hewitt, R. J. (1 Pre-Vet)*	Florence
Hasty, D. D. (1 EE)*	Camden	Hicks, J. Melvin (1 TMt)*	Blacksburg
Hatchell, O. J. (2 For)	Latta	Hicks, J. Miley (1 ChE)*	Hartsville
Hatchell, W. O. (2 IM)	Dillon	Hicks, R. J. (1 EE)	Hartsville
Hatcher, W. H. (1 Chem)	Charleston	Hicks, W. R. (4 ME)	Belton
Hatton, A. L. (1 EE)*	Rock Hill	Hiers, F. (1 Agron)	Ehrhardt
Hawfield, W. K. (1 TS)*	Lancaster	Higdon, G. P. (3 ChE)	Charleston
Hawkins, C. A. (4 EE)	Greenville	Higgins, R. R. (1 Chem)*	Asheville, N. C.
Hawkins, M. L. (1 ME)*	Hartsville	Hildebrand, D. K. (2 IM)	St. Matthews
Hawkins, T. E. (2 CE)	Wallace	Hill, J. C. (2 EE)	Hendersonville, N. C.
Hawkins, W. F. (2 EE)	Taylor	Hill, J. G. (4 Chem)	Timmonsville
Hawkins, W. W. (2 EE)	Greenville	Hill, J. H. (3 EE)	Laurens
Hawthorne, J. W. (4 Phys)	Abbeville	Hill, J. S. (1 EE)	Belton
Hayden, W. S. (3 EE)	Orangeburg	Hill, J. W. (3 Pre-Med)	York
Hayes, B. M. (3 AH)	Sellers	Hill, R. S. (2 ChE)	Jackson
Hayes, E. R. (1 For)*	Clemson	Hill, S. J. (1 CE)	Cross Hill
Hayes, G. G. (1 ChE)*	Summerville	Hill, T. H. (2 IM)	Belton
Hayes, H. A. (1 A)*	Mayo	Hill, W. L. (1 ME)	Camden
Hayes, K. S. (1 CE)*	Tabor City, N. C.	Hill, W. R. (4 IM)	Greenville
Hayes, R. B. (1 For)*	Johns Island	Hilla, A. P. (1 CE)	Belleville, N. J.
Hayes, R. R. (1 Ed)	Pickens	Hilley, M. E. (2 ME)	Greenwood
Hayes, W. M. (1 ME)	Kershaw	Hillhouse, R. T. (2 CrEn)	Anderson
Haynes, H. B. (1 IM)	Florence	Hilliard, H. E. (1 TMt)*	Kershaw
Haynes, W. A. (2 ME)	Hartsville	Hills, G. F. (1 AgEn)*	Johns Island
Haynie, C. R. (1 IM)	Belton	Himiob, A. (2 Arch)	Venezuela
Haynie, J. H. (2 IM)	Cornelia, Ga.	Hindman, W. S. (2 TMg)	Walhalla
Hays, J. R. (1 ChE)*	Graniteville	Hinds, F. S. (1 CE)	Dillon
Hays, W. L. (3 IM)	Anderson	Hinkle, H. D. (1 Phys)*	Pickens
Hazelwood, W. T. (2 TMg)	Enoree	Hinson, D. J. (4 AgEc)	Loris
Hazzard, W. J. (4 ME)	Lugoff	Hinson, J. M. (1 IM)*	Darlington
Heape, R. E. (3 CE)	Yemassee	Hinson, K. E. (4 ChE)	Varnville
Heard, L. A. (1 For)*	North Miami, Fla.	Hinson, L. C. (2 ME)	Clemson
Heath, O. F. (2 AgEn)	Aiken	Hinson, R. A. (2 TC)	Lancaster
Heaton, H. K. (4 ChE)	Summerville	Hiott, James M. (1 EE)*	Easley
Herbert, R. B. (1 EE)*	Port Wentworth, Ga.	Hiott, Julian M. (2 IM)	Easley
Heilig, D. M. (2 IM)	Hendersonville, N. C.	Hoard, J. W. (1 ChE)*	Startex
Heimlich, S. S. (4 Pre-Med)	Timmonsville	Hoaster, R. E. (1 CE)*	St. Simons Island, Ga.
Helman, R. M. (1 IE)*	Columbia	Hobbs, D. A. (1 IM)	Timmonsville
Helms, D. W. (1 CE)*	Conway	Hock, H. F. (1 IM)*	Sumter
Hembree, R. L. (2 IM)	Anderson	Hodgens, R. N. (2 EE)	Taylor
Hemphill, J. B. (3 CE)	Greenville	Hoefer, R. F. (2 Ed)	Gainesville, Ga.
Henderson, B. L. (1 ME)	Laurens	Hoffman, C. D. (3 IM)	Gastonia, N. C.
Henderson, B. W. (1 ME)	Clemson	Hoffman, R. R. (1 CE)	Roswell, N. Mex.
Henderson, C. G. (2 ME)	Savannah, Ga.	Hoffmeyer, C. L. (1 IE)	Florence
Henderson, D. B. (3 IM)	Chesnee	Hogg, H. D. (4 IM)	Greenville
Henderson, D. C. (G AgEc)*	Mooreland, Okla.	Hogg, J. D. (4 ChE)	Greenville
Henderson, G. L. (1 Pre-Med)*	Greenville	Holden, S. (2 EE)	Clemson
Henderson, G. M. (2 Dairy)	Moncks Corner	Holladay, H. R. (1 IM)*	Central
Henderson, J. T. (1 TMt)	Laurens	Holladay, S. A. (1 A)*	Central
Henderson, N. (2 ME)	Greenville	Holland, M. G. (1 IM)*	Gastonia, N. C.
Henderson, W. (2 CE)	Chesnee	Holland, M. L. (1 EE)	Franklin, N. C.
Hendley, H. B. (1 Ed)	Greenville	Holland, R. E. (2 EE)	Canton, N. C.
Hendricks, H. D. (4 Phys)	Pendleton	Holleman, M. A. (1 A&S)*	Seneca
Hendricks, M. G. (1 ME)*	Pickens	Holleman, S. H. (G Ent)**	Seneca
Hendricks, R. (4 CrEn)**	Central	Holley, C. B. (2 ChE)	Aiken
Hendricks, R. C. (3 EE)	Belton	Holliday, R. M. (1 ChE)*	Conway
Hendricks, R. K. (3 ME)	Easley	Hollis, D. S. (3 EE)	Rock Hill
Hendricks, T. D. (4 EE)	Pittsburg, Pa.	Holloway, W. O. (4 Pre-Med)	Ware Shoals
Hendrix, T. C. (1 CE)*	Charlotte, N. C.	Holmes, G. B. (2 EE)	Allendale
Hendrix, W. L. (1 CE)*	Greenwood	Holmes, R. M. (1 TMt)*	Spartanburg
Henkel, D. T. (1 Arch)	Camden	Holroyd, F. L. (3 Arch)	Greenwood
Hensley, R. A. (3 ChE)	North Augusta	Holsenback, J. E. (3 ChE)	Warrenville
Hensley, R. D. (3 CE)	North Augusta	Holstein, M. J. (2 TMt)	Monetta
Henson, J. L. (G Zool)**	Greenville	Holstein, R. H. (4 Agron)	Monetta
Herin, F. E. (1 EE)*	Greenwood	Holt, R. A. (PG Pre-Vet)*	Nesmith
Herman, R. C. (3 ME)	Greenwood	Holt, T. T. (1 A&S)	Loris
Herman, R. E. (3 EE)	Charleston Heights	Holt, W. D. (1 InEd)	Nichols
Hernandez, J. M. (1 E)*	El Paraiso, Venezuela	Hooper, D. L. (Unc)**	Anderson
Herndon, E. D. (2 CE)*	Gaffney	Hooper, R. E. (2 IM)	Piedmont
Heron, G. H. (4 ChE)	Jenkinsville	Hooton, M. F. (2 EE)	New Carlisle, Ind.
Herr, R. C. (1 CE)	Baltimore, Md.	Hoover, F. J. (2 Chem)	Greenville
		Hoover, H. E. (3 For)	North Charleston
		Hoover, R. A. (2 EE)	Rock Hill

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Hope, G. C. (3 ME)	College Park, Ga.	Hussey, R. E. (2 AgEd)	Harleyville
Hope, J. R. (1 IE)*	Charleston	Hutchins, R. L. (3 EE)	Walhalla
Hopkins, C. A. (1 EE)*	Pelzer	Hutchinson, J. E. (3 IE)	Rock Hill
Hopkins, J. H. (3 Dairy)	Pendleton	Hutchinson, T. E. (G Phys)	Rock Hill
Hopkins, P. H. (3 IE)	Columbia	Hutchison, A. B. (1 AH)*	Iva
Hopkins, W. T. (1 A&S)	Pendleton	Hutto, R. H. (1 Dairy)	Orangeburg
Horne, C. H. (4 EE)	Oak Ridge, Tenn.	Hutton, G. A. (4 AgEn)	Greer
Hornick, F. J. (G AgEd)**	Central	Iglesias, F. (1 ME)*	Santurce, Puerto Rico
Horton, A. S. (4 IM)	Westerly, R. I.	Inabinet, J. R. (2 EE)	Woodford
Horton, E. A. (1 IM)*	Clinton	Infinger, J. N. (1 EE)*	St. George
Horton, E. C. (1 ChE)	Kingstree	Ingerto, J. A. (1 EE)*	Dunellen, N. J.
Horton, F. (3 Pre-Med)	Loris	Inglesby, A. J. (4 Ent)	Greenville
Hoshall, F. A. (1 Pre-Med)*	Charleston	Ingram, A. B. (3 AgEc)	Asheville, N. C.
Hotinger, R. W. (1 Arch)*	Columbia	Ingram, B. A. (2 ME)	Pageland
Hough, O. M. (1 CE)*	Lancaster	Inman, M. H. (1 Agron)	Loris
Houston, J. M. (1 IM)	Franklin, N. C.	Irby, J. M. (4 EE)	Pelzer
Howard, D. J. (1 IM)	Augusta, Ga.	Ireland, P. E. (4 ME)	Rock Hill
Howard, F. A. (2 TMg)	Inman	Israel, T. M. (1 For)	Asheville, N. C.
Howard, F. S. (2 ME)	North Augusta	Ivester, J. D. (1 IM)	Rome, Ga.
Howard, H. N. (1 EE)*	Greenville	Ivester, R. H. (2 Tmt)	Newberry
Howard, J. F. (1 EE)*	West Columbia	Ivester, W. M. (1 EE)*	Belton
Howard, J. M. (4 Hort)	Lake Butler, Fla.	Ivey, L. F. (3 CrEn)	Greenwood
Howard, L. E. (1 ChE)	Georgetown	Jaber, R. (Unc)*	Aleppo, Syria
Howden, D. E. (2 Arch)*	Kingsport, Tenn.	Jack, C. W. (1 InEd)	Leechburg, Pa.
Howe, C. E. (2 TMg)	Chester	Jacks, G. M. (G NSc)**	Mountville
Howe, W. H. (3 ME)	Rock Hill	Jackson, A. R. (1 ME)*	Johns Island
Howell, E. B. (2 Pre-Med)	Pickens	Jackson, H. B. (1 IM)	North Charleston
Howell, R. W. (1 EE)*	Charleston	Jackson, J. G. (1 Pre-Med)*	Augusta, Ga.
Howell, T. R. (1 Chem)*	North Augusta	Jackson, J. L. (3 AgEd)	Fair Bluff, N. C.
Howle, C. W. (G Chem)**	Florence	Jackson, M. R. (2 ChE)	Savannah, Ga.
Howle, J. B. (1 TC)*	Hartsville	Jackson, S. W. (1 IM)	Rock Hill
Howle, P. L. (2 EE)	Florence	Jackson, W. F. (3 Arch)	Rock Hill
Hubbard, R. C. (G AgEd)**	Bamberg	James, D. E. (1 Tmt)*	Simpsonville
Hucks, T. L. (2 AgEd)	Aynor	James, G. R. (1 CE)*	Liberty
Hucks, W. D. (2 AgEd)	Galivants Ferry	James, J. T. (1 ME)*	Sumter
Hudson, H. E. (1 AgEc)	Conway	James, J. W. (1 Dairy)	Sumter
Hudson, J. A. (1 ME)*	Pickens	James, M. B. (2 A&S)	Anderson
Hudson, J. D. (1 AgEn)*	Clemson	James, S. K. (1 CE)*	Greenwood
Hudson, J. J. (3 Ed)	Jersey City, N. J.	James, W. H. (1 AgEn)	Columbia
Hudson, V. J. (2 EE)	North Charleston	Jameson, C. C. (1 CE)*	Easley
Hudson, W. L. (3 ME)	Brevard, N. C.	Jamieson, M. C. (1 IM)	Union
Huff, R. B. (G Chem)**	Piedmont	Jarrett, W. H. (1 ME)*	Kingstree
Huffman, J. O. (1 ME)	Greenville	Jayroe, J. P. (3 IM)	Georgetown
Huffman, W. P. (1 Tmt)	Cameron	Jeanes, R. H. (3 EE)	Greenville
Huggin, B. A. (4 CrEn)	Greenville	Jeffcoat, C. B. (2 ChE)	Fairfax
Huggins, W. E. (1 CE)	Johnsonville	Jeffcoat, D. E. (1 EE)	Fairfax
Hughes, F. S. (1 EE)*	Sea Cliff, N. Y.	Jeffcoat, L. H. (2 Ed)*	Hampton
Hughes, G. F. (4 CE)	Bamberg	Jenerette, G. D. (1 ME)*	Dillon
Hughes, J. C. (3 CE)	Murrells Inlet	Jonison, W. D. (2 IE)	Langley
Hughes, J. H. (1 AH)*	Duncan	Jenkins, G. A. (2 IM)	Columbia
Hughes, P. K. (1 IE)	Westminster	Jenkins, M. E. (1 EE)	Union
Hughes, P. L. (2 Tmt)	Greenville	Jenkins, R. P. (1 CE)*	Mayo
Hughes, W. D. (2 ME)	Seneca	Jennings, V. J. (1 EE)	Warrenville
Hughey, J. P. (4 EE)	Spartanburg	Jerome, W. R. (3 CE)	Greenville
Hughey, J. W. (2 IM)	Piedmont	Jeter, D. G. (3 EE)	Columbia
Huiet, W. D. (1 IM)	Trenton	Jeter, D. R. (2 IE)	Waynesville, N. C.
Hull, J. S. (1 IM)	Westminster	Johnsen, H. L. (2 CE)*	Perth Amboy, N. J.
Humbrecht, R. V. (3 Arch)	Yardley, Pa.	Johnson, B. R. (1 ME)	Hartsville
Humphreys, P. H. (2 EE)	Iva	Johnson, C. H. (2 AgEd)	Pinewood
Humphries, R. N. (4 ME)	Columbia	Johnson, D. F. (1 EE)	Spartanburg
Hund, P. W. (2 CE)	Charleston	Johnson, F. (2 Tmt)	Belton
Hundley, G. W. (1 EE)*	Hendersonville, N. C.	Johnson, F. A. (1 IM)*	Greenville
Hunnicut, R. L. (2 AH)	Hartwell, Ga.	Johnson, G. L. (2 CrEn)	Greenwood
Hunsicker, R. A. (2 Arch)	Perkasie, Pa.	Johnson, H. E. (3 EE)	Greenwood
Hunt, J. D. (2 ME)	Pelzer	Johnson, H. O. (1 Arch)*	Savannah, Ga.
Hunt, T. A. (2 EE)	York	Johnson, J. A. (1 Arch)*	Huntington, N. Y.
Hunt, W. A. (1 EE)*	North Charleston	Johnson, J. L. (1 EE)*	Greenwood
Hunter, B. G. (2 EE)	Clemson	Johnson, J. M. (3 Pre-Med)	Duncan
Hunter, G. C. (2 ME)	Norway	Johnson, L. W. (4 EE)	Rock Hill
Hunter, J. C. (4 TC)	Green Mountain	Johnson, Richard C. (1 IM)*	Georgetown
Hunter, J. E. (3 CE)	Lancaster	Johnson, Robert C. (2 Arch)	Orangeburg
Hunter, J. L. (1 E)*	Greenville	Johnson, Russell C. (3 IE)	Sumter
Hunter, O. F. (2 TS)	Bamberg	Johnson, R. F. (1 EE)*	Greenville
Hunter, W. L. (4 IM)	Columbia	Johnson, R. J. (2 AH)	Alcolu
Huntsinger, F. E. (1 ChE)	Anderson	Johnson, R. L. (1 EE)*	Sumter
Hurlbutt, J. W. (1 A&S)*	Ft. Lauderdale, Fla.	Johnson, R. M. (4 EE)	Charlotte, N. C.
Hurley, J. A. (2 ChE)	Spartanburg	Johnson, T. D. (2 Arch)	Midland, Mich.
Hursey, M. J. (2 ChE)	North Charleston		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Johnson, W. G. (G AgEc)**	Jonesville, N. C.	Kennedy, R. H. (3 Arch)	Columbia
Johnson, W. R. (2 EE)	Savannah, Ga.	Kennedy, S. W. (1 Pre-Vet)*	Eutawville
Johnston, R. M. (G Agron)**	Kingstree	Kennedy, W. P. (2 TS)	Manning
Jones, C. L. (1 CrEn)*	Blackville	Kennington, V. W. (4 TMg)	Lancaster
Jones, C. W. (1 EE)*	Aiken	Kent, H. D. (1 AgEn)	Rocky Ford, Ga.
Jones, D. A. (1 IE)*	Piedmont	Kernels, B. R. (1 TC)	Anderson
Jones, D. B. (3 EE)	Greenville	Kernels, P. W. (4 EE)	Anderson
Jones, D. R. (2 IM)	Greer	Kerns, W. F. (1 EE)	Greenville
Jones, Douglas R. (2 EE)	East Flat Rock, N. C.	Kesler, B. M. (1 ME)*	North Augusta
Jones, E. R. (3 Phys)	Dillon	Ketner, D. Q. (2 Dairy)	Murphy, N. C.
Jones, E. W. (G AgEc)**	Easley	Key, W. B. (1 IM)	Rock Hill
Jones, F. R. (3 EE)	Greenville	Kidd, J. K. (1 ME)*	Greenville
Jones, G. P. (1 AH)*	Duncan	Kilby, F. D. (2 EE)	Liberty
Jones, H. H. (1 AgEn)*	Easley	Kilgore, C. T. (4 TMg)	Anderson
Jones, J. A. (2 AgEn)	Easley	Killen, C. P. (2 ME)	Sumter
Jones, J. E. (1 EE)*	Easley	Killian, P. H. (1 IM)	Fairfax
Jones, J. H. (1 IM)	Fountain Inn	Kim, D. W. (4 TE&TMg)	Seoul, Korea
Jones, M. L. (2 ME)	Beaufort	Kim, S. H. (G TC)*	Seoul, Korea
Jones, M. W. (1 CE)*	Greenville	Kimball, F. E. (2 CE)	Knoxville, Tenn.
Jones, R. (1 Arch)	Columbia	Kimble, R. H. (2 EE)	Charleston
Jones, R. C. (1 IM)	Laurens	Kimbrell, R. L. (1 Arch)*	Spartanburg
Jones, R. F. (2 Pre-Med)	West Union	Kimrey, R. R. (1 For)*	Cheraw
Jones, R. M. (3 AgEc)	Franklin, N. C.	Kinard, C. W. (1 A&S)*	Ninety Six
Jones, S. H. (1 TS)*	Sumter	Kinard, F. W. (1 For)	Charleston
Jones, W. C. (4 AH)	Sumter	Kinard, G. C. (1 ME)*	Prosperity
Jones, W. D. (4 IE)	Asheville, N. C.	Kinard, J. D. (1 IM)*	Greer
Jones, Wendell E. (1 For)	Taylors	Kinard, J. E. (2 CE)	Newberry
Jones, William E. (1 CE)*	Charlotte, N. C.	King, B. W. (1 ME)*	Greenville
Jones, W. R. (1 EE)*	Seneca	King, C. B. (1 Pre-Vet)*	Loris
Jordan, E. B. (1 IM)	Hartsville	King, C. E. (4 EE)	Simpsonville
Jordan, James A. (1 A&S)	Greenville	King, C. H. (4 IE)	Belton
Jordan, Jerry A. (1 ME)*	Anderson	King, C. M. (3 EE)	Gastonia, N. C.
Jordan, J. M. (3 ME)	Charlotte, N. C.	King, E. L. (4 CE)	Durham, N. C.
Jordan, John R. (4 AH)	Clinton	King, G. L. (3 IM)	Sumter
Jordan, J. Robert (1 IM)*	Eastover	King, G. T. (2 IM)	Lancaster
Jordan, L. E. (4 Ed)	St. George	King, H. B. (1 ME)	Westminster
Jordan, R. M. (1 CE)*	Olanta	King, H. M. (Unc)**	Anderson
Jordan, R. P. (4 Ed)	Florence	King, J. C. (1 IM)	Anderson
Jordan, W. H. (1 IM)*	Darlington	King, J. L. (2 AgEc)	Central
Jowers, H. C. (2 ME)	Spencer, N. C.	King, J. T. (G Ent)**	Clemson
Jowers, J. D. (1 ME)*	Spencer, N. C.	King, R. E. (1 Pre-Med)*	Central
Joyce, C. D. (2 EE)	North Charleston	King, R. M. (1 ChE)*	Whitmire
Joye, H. A. (1 Arch)*	Charleston Heights	King, T. K. (1 CE)*	Atlanta, Ga.
Joye, W. L. (2 EE)	Charleston Heights	King, W. A. (1 Chem)*	Clemson
Julian, T. H. (4 EE)	Newberry	Kingsmore, R. S. (4 TC)	Buffalo
Kalantari, B. (1 Phys)*	Teheran, Iran	Kinkaid, D. E. (4 Phys)	Anderson
Kalemjian, C. B. (1 IM)*	Dawningtown, Pa.	Kirby, B. C. (2 A&S)	St. George
Kaney, G. D. (2 EE)	Langley	Kirby, H. D. (4 ME)	Seneca
Kapp, R. P. (1 Dairy)*	Columbia	Kirby, R. E. (1 Arch)*	Union
Karesh, W. G. (3 ChE)	Bamberg	Kirby, T. E. (1 TC)	Greenwood
Katterhenry, W. (1 EE)	Easley	Kirkland, A. J. (1 EE)*	Vaucluse
Kay, J. R. (3 EE)	Anderson	Kirkley, S. E. (1 ChE)	Chesterfield
Kay, L. S. (1 Tmt)	Ware Shoals	Kiser, B. R. (3 ME)	Rock Hill
Kay, M. A. (4 ME)	Easley	Kistler, G. E. (1 CE)*	Charlotte, N. C.
Kay, W. D. (1 IE)*	Anderson	Kitchens, K. R. (1 A&S)	Minneapolis, Minn.
Kay, W. G. (4 IM)	Allendale	Kitchings, O. G. (1 E)*	Williston
Kay, W. H. (3 CE)	Swansboro, N. C.	Kitchings, W. W. (1 ChE)*	Salley
Keane, R. M. (1 Arch)*	Towson, Md.	Kizer, J. M. (1 CE)	Walterboro
Keasler, J. C. (4 TMg)	Mebane, N. C.	Kizer, W. E. (2 InEd)	St. George
Keels, J. E. (1 A)	Alcolu	Kleckley, E. H. (3 ME)	Charleston
Keene, R. D. (1 IM)	Spartanburg	Klinger, A. R. (4 AgEn)	Liberty
Keese, W. C. (1 AgEn)	Westminster	Kneece, Herbert M. (1 Tmt)	Graniteville
Keesey, D. B. (3 ME)	Baltimore, Md.	Kneece, Hubert M. (1 Tmt)	Graniteville
Keil, J. E. (G Ent)**	Walhalla	Knight, D. E. (2 Tmt)	Bennettsville
Keith, J. H. (1 ChE)	Greenville	Knight, J. B. (1 A)	Cheraw
Kekas, D. H. (4 EE)	Spartanburg	Knight, J. C. (1 Tmt)	Kershaw
Kellers, F. C. (1 EE)*	Fort Huachuca, Ariz.	Knight, J. H. (2 AgEd)	St. George
Kelley, C. M. (4 AgEc)	Lake City	Knight, L. C. (1 ME)*	Rock Hill
Kelley, L. O. (1 For)*	Pickens	Knight, M. R. (1 EE)*	Charlotte, N. C.
Kelley, T. E. (4 IM)	Lake City	Knight, W. W. (1 EE)*	St. George
Kelly, J. E. (1 Tmt)	Cheraw	Knobeloch, J. B. (4 ChE)	Florence
Kelly, J. W. (G Dairy)**	Clemson	Knott, H. W. (3 IM)	Henderson, N. C.
Kelsey, J. B. (1 E)*	Dillon	Knox, J. C. (2 TMg)	Chester
Kemp, J. C. (1 For)*	Columbia	Knox, J. F. (2 Pre-Med)	Seneca
Kendrick, W. A. (1 EE)*	Union	Knox, W. H. (1 ChE)*	North Augusta
		Koestner, J. E. (3 IM)	Savannah, Ga.
		Kolb, L. L. (2 ME)	Pinewood
		Koon, F. K. (4 ChE)	Columbia
		Koon, H. E. (1 ME)	Florence

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Koon, J. F. (1 ME)	Charleston Heights	Leitzsey, H. J. (2 Pre-Med)	Silver Spring, Md.
Koons, R. S. (1 TMT)*	Webster Graves, Mo.	Lemacks, M. E. (1 IE)	Ravenel
Kornahrens, D. P. (1 IM)*	Summerville	Le Master, R. T. (4 AH)	Gaffney
Krajack, E. T. (1 IM)	McKeesport, Pa.	Lemons, D. L. (2 A&S)*	Easley
Krajack, G. A. (3 IM)	McKeesport, Pa.	Lenney, S. D. (3 EE)	Merrick, N. Y.
Krieger, R. G. (1 InEd)	Washington, D. C.	Leonard, L. C. (2 CE)	Johnson City, Tenn.
Krueger, G. H. (2 IE)	Atlanta, Ga.	Leonard, W. C. (1 ChE)*	Greer
Kruger, L. J. (2 CE)*	Charleston	Leshock, J. J. (1 EE)	Greensburg, Pa.
Kuemmerer, H. R. (PG)**	Walhalla	Lesley, J. G. (G AgEd)**	Piedmont
Kye, H. B. (3 IE)	Tobaccoville, N. C.	Lesslie, J. W. (4 Arch)	Rock Hill
Laboon, J. B. (1 EE)*	Santee	Leverette, D. S. (2 ME)	Winchester, Mass.
Lackey, R. T. (3 ME)	Charleston Heights	Leviner, G. W. (3 TMg)	McBee
Lafferty, J. S. (2 EE)	Greenville, N. C.	Levy, F. R. (1 ChE)*	Marion
Lain, T. O. (1 TMT)	Olar	Levy, L. W. (1 TMT)	Marion
Laird, S. E. (4 ChE)	Newberry	Lewis, B. E. (2 AgEd)	Dillon
Lakey, E. A. (1 Ed)	Alexandria, Va.	Lewis, B. W. (4 AgEc)	Newberry
Lamb, R. B. (1 ME)	Huntsville, Ala.	Lewis, C. M. (2 AgEn)	Gastonia, N. C.
Lambert, C. R. (1 EE)*	Hartsville	Lewis, J. L. (3 IM)	Aliquippa, Pa.
Lambert, R. A. (1 For)*	Georgetown	Lewis, J. R. (1 CrEn)*	Marion, N. C.
Lamkin, L. E. (1 ME)*	Lenoir, N. C.	Lewis, W. J. (1 For)*	Clinton
Lammonds, J. M. (1 IE)	Rockingham, N. C.	Leyden, D. R. (4 IM)	Jersey City, N. J.
Lancaster, M. S. (1 ME)	Jonesville	Liberty, V. E. (2 ChE)	Clemson
Land, E. B. (3 IE)	York	Lilienthal, R. E. (2 IM)	Charleston
Land, R. F. (4 IM)	Salem	Limehouse, B. I. (4 IM)	Charleston
Lane, B. C. (1 For)*	Marion	Limehouse, J. S. (3 AgEn)	Charleston
Lane, G. R. (4 AgEc)**	Mullins	Lindabery, G. P. (3 ChE)	Pottersville, N. J.
Laney, D. C. (1 TC)*	Cheraw	Lindley, A. A. (3 CE)	Brevard, N. C.
Lanford, B. F. (2 CE)	Woodruff	Lindsay, F. E. (1 EE)*	Anderson
Langdale, G. W. (G Agron)**	Walterboro	Lindsay, J. E. (1 ME)*	Gastonia, N. C.
Langford, A. M. (2 For)	Saluda	Lindsay, G. E. (2 For)	Seneca
Langford, B. M. (1 CrEn)*	Saluda	Lindsay, J. G. (1 CE)*	Taylors
Langley, B. R. (2 CE)	Greenville	Lindsay, J. N. (1 For)*	Lanett, Ala.
Langley, J. H. (1 CrEn)*	Greenville	Lindsey, R. M. (1 EE)*	Pickens
Langston, J. M. (1 CE)	North Augusta	Lindstrom, G. D. (3 ME)	Spartanburg
Lanham, W. J. (G AgEc)**	Clemson	Lingerfelt, H. K. (4 TMg)	Morristown, Tenn.
Lankford, J. H. (1 IM)	Easley	Link, H. B. (2 Arch)	McCormick
Laplue, L. D. (G AgEn)*	Newellton, La.	Link, J. B. (PG Pre-Med)	McCormick
Lark, J. E. (1 E)*	Clinton	Lins, R. G. (Unc)*	Recife, Brazil
Laroche, T. B. (1 ME)*	Ninety Six	Linton, F. G. (1 CE)	Rome, Ga.
Latimer, W. M. (3 CrEn)	Columbia	Lippard, V. B. (1 EE)*	Charlotte, N. C.
Latour, A. M. (2 AH)	Havana, Cuba	Litsey, L. C. (2 IM)	Cedartown, Ga.
Latto, T. S. (PG Arch)	Charleston	Liverman, R. B. (1 Arch)*	Lexington
Lavell, M. J. (4 ME)	Brevard, N. C.	Livingston, L. H. (3 EE)	North
Lavelle, J. M. (2 EE)	Charleston	Lloyd, J. W. (1 Agron)*	Edgefield
Lavender, T. C. (2 IM)	Gaffney	Loadholt, C. B. (1 Agron)*	Fairfax
Lawing, A. O. (1 IM)	Belmont, N. C.	Loadholt, J. B. (1 EE)	Fairfax
Lawrence, C. E. (1 For)	Wagner	Loadholt, N. B. (4 Agron)	Fairfax
Lawrence, C. R. (1 IM)*	Central	Loftis, C. B. (1 AgEn)	Taylors
Lawrence, R. S. (2 CrEn)	Brevard, N. C.	Logan, J. W. (1 ME)*	Beaufort
Lawrence, W. B. (PG For)	Greenville	Lollis, D. E. (1 ME)	Belton
Lawson, T. G. (1 TMT)	Chester	Lollis, O. L. (2 IE)	Belton
Leach, D. P. (3 Arch)	Anderson	Lollis, T. E. (3 TE)	Williamston
League, C. E. (2 ME)	Ware Shoals	Lombardi, J. H. (2 EE)	Canonsburg, Pa.
League, G. F. (2 TMg)	Greenville	Lominack, T. J. (1 Arch)*	Greer
League, J. P. (1 CrEn)*	Easley	Long, B. W. (1 EE)	Westminster
Leaird, C. H. (2 EE)	Jefferson	Long, E. M. (1 ME)*	Rockville Centre, N. Y.
Leaphart, D. A. (2 EE)	Charleston	Long, G. E. (4 EE)	Georgetown
Leaptrott, W. M. (1 ChE)*	Ponte Vedra Beach, Fla.	Long, J. A. (1 ME)*	Saluda
Leard, B. R. (1 A&S)*	Westminster	Long, J. E. (2 ChE)	Greenville
Lease, R. C. (1 Chem)*	Clemson	Long, J. M. (3 IM)	East Gadsden, Ala.
Ledford, C. M. (1 ME)*	Spartanburg	Long, J. O. (1 Arch)*	Ware Shoals
Ledford, O. M. (2 Pre-Med)	Greenville	Long, L. C. (1 AgEn)	Conway
Lee, D. L. (1 CE)	Scranton	Long, M. C. (4 IM)	Anderson
Lee, E. C. (3 For)	Columbia	Long, S. K. (1 CE)*	Gastonia, N. C.
Lee, H. H. (2 EE)	Barnwell	Long, V. A. (1 ME)	Newberry
Lee, Jakie (2 Arch)	Georgetown	Longest, H. L. (3 ME)	Baltimore, Md.
Lee, Joseph (G Dairy)	Landrum	Longmeyer, R. D. (1 CE)	Shelby, N. C.
Lee, J. K. (3 TMg)	Seoul, Korea	Longshore, H. B. (4 ME)	Greenwood
Lee, J. V. (G Phys)**.*	Leland, Miss.	Longshore, V. L. (3 ME)	Greenwood
Lee, S. G. (1 TS)*	Chester	Looney, J. W. (1 For)*	Irmo
Lee, W. S. (1 ChE)	Bishopville	Looper, T. M. (G Ed)**	Townville
Lee, W. T. (1 AgEd)*	Tamassee	Looper, W. R. (4 EE)	Pelzer
Lee, Y. J. (3 TMg)	Seoul, Korea	Lopata, R. J. (2 Phys)	Shenandoah, Pa.
Lefevre, W. H. (1 IM)	Easley	Lopez, E. (2 Agron)	San Salvador, El Salvador
Leitch, W. W. (1 ME)	Charleston		
Leitner, O. D. (2 Arch)	Columbia		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Lord, E. D. (1 EE)	Anderson	McDaniel, B. F. (PG ME)	New Martinsville, W. Va.
Lother, W. F. (Unc)**	Anderson	McDaniel, G. E. (2 Pre-Med)	Columbia
Lott, G. L. (1 E)*	Savannah, Ga.	McDaniel, G. W. (4 CE)	Greenville
Lott, J. E. (3 IM)	North Augusta	McDaniel, R. L. (1 IM)	Chester
Loudermilk, R. H. (3 EE)	Walhalla	McDaniel, W. H. (1 E)*	Chester
Love, T. C. (1 TMT)*	Spartanburg	McDevitt, M. J. (1 ME)*	Savannah, Ga.
Lovell, J. K. (3 AH)	Greenville	McDonald, A. J. (1 EE)	Sumter
Lovin, J. R. (2 EE)	Canton, N. C.	McDonald, H. L. (4 IM)	Liberty
Lowder, C. R. (3 AgEc)	Sumter	McDonald, James A. (2 Agron)	McColl
Lowery, M. K. (3 ME)	Seneca	McDonald, John A. (1 For)*	Hartsville
Loyless, J. G. (4 Arch)	Greenville	McDonald, M. L. (1 CrEn)	Greenville
Lubkin, W. F. (4 IM)	Beaufort	McDonald, O. B. (4 ChE)	Charleston Heights
Lucas, F. E. (4 Arch)	Charleston	McDonald, T. L. (2 IM)	Ware Shoals
Lucas, H. P. (2 AgEd)	Clinton	McDowell, H. E. (1 A)	Spartanburg
Lucas, L. L. (1 ME)	Rome, Ga.	McDowell, L. E. (2 CE)	Spartanburg
Ludwick, R. E. (2 ChE)	Myrtle Beach	McElmurray, W. W. (1 AH)	Beech Island
Lunney, S. W. (3 ChE)	Charleston	McElrath, W. L. (4 EE)	Canton, N. C.
Luquire, C. E. (3 ChE)	Greenwood	McElveen, J. D. (1 For)*	Kingstree
Luscombe, M. L. (Unc)*	Anna, Texas	McElwee, L. L. (2 ME)	Clover
Lusk, W. T. (2 EE)	Easley	McEntire, E. H. (2 IE)	Ruth, N. C.
Lutz, H. D. (1 EE)*	Richburg	McFadden, J. G. (4 CrEn)	Rock Hill
Lynch, J. A. (4 TC)	Inman	McGalliard, D. L. (1 ME)	Morganton, N. C.
Lynn, D. C. (3 IM)	Fairless Hills, Pa.	McGarity, R. L. (1 Pre-Vet)*	Clemson
Lynn, R. B. (3 CrEn)	Chester	McGee, F. J. (1 ChE)*	Anderson
Lyons, D. C. (1 Ed)	Faust, N. Y.	McGee, H. G. (3 Arch)	Hartsville
Lyons, R. W. (1 IM)*	Orangeburg	McGee, H. H. (1 ChE)*	Greenville
Lyons, W. H. (1 IM)*	Mobile, Ala.	McGee, J. W. (3 ChE)	Timmons
McAbee, T. P. (1 EE)*	Spartanburg	McGee, K. P. (1 AH)	Starr
McAdams, W. R. (1 AgEn)	Townville	McGee, R. G. (2 IM)	Clinton
McAlhane, H. T. (1 EE)*	Beaufort	McGill, D. M. (G AgEn)**	Anderson
McAlhany, F. O. (3 Dairy)	Branchville	McGill, R. H. (1 ME)*	Anderson
McAlhany, K. M. (1 IE)*	Charleston	McGill, S. D. (1 AH)	Kingstree
McAlister, J. C. (1 ME)	Anderson	McGirt, B. M. (4 CE)	Columbia
McAlister, M. A. (1 Pre-Med)	Central	McGlohon, N. E. (G PIPath)**	Clemson
McAulay, W. F. (3 Arch)	Columbia	McGraw, J. W. (1 Ed)*	Pendleton
McCahan, A. R. (3 IM)	Greenville	McGregor, A. W. (2 AgEc)	Hopkins
McCall, H. K. (1 A)	Walhalla	McGuire, A. F. (3 TMT)	Laurinburg, N. C.
McCall, J. A. (1 ChE)*	Florence	McGuirt, C. A. (1 IM)*	Rock Hill
McCanless, J. R. (2 Ed)	Asheville, N. C.	McIlwain, J. W. (1 For)	Camden
McCarley, W. K. (2 TMg)	Westminster	McInerny, J. F. (3 ME)	Columbia
McCarson, R. S. (1 CE)*	Greenville	McIntyre, B. (3 ME)	Biltmore, N. C.
McCarter, B. H. (4 EE)	Clover	McIsaac, M. M. (3 For)	Kershaw
McCarter, S. M. (4 AgEd)	York	McKay, L. H. (3 AH)	Hendersonville, N. C.
McCary, W. H. (3 ME)	Greenwood	McKay, W. S. (3 CE)	Pittsburgh, Pa.
McCaskill, B. L. (1 E)*	Cassatt	McKellar, P. A. (4 Arch)	Bennettsville
McCaskill, W. R. (G Ent)**	Pinebluff, N. C.	McKenzie, J. L. (1 IM)*	Bishopville
McCauley, J. H. (1 InEd)	Greenville	McKeown, L. D. (2 IM)	Chester
McClhmon, H. P. (3 AgEd)	Greer	McKibben, H. A. (2 IM)	Fort Mill
McClure, J. R. (1 AgEn)	Anderson	McKie, M. T. (4 Ed)	North Augusta
McClure, T. D. (3 A&S)	Orangeburg	McKinley, J. J. (1 TC)	Anderson
McColl, D. W. (1 ME)*	Bennettsville	McKinnell, H. W. (2 IE)	Charlotte, N. C.
McCollum, J. W. (1 IM)	Easley	McKinney, D. E. (3 ChE)	Greenville
McCollum, L. T. (1 Phys)*	Latta	McKinney, J. S. (2 CE)	Spartanburg
McCombs, J. W. (G EE)**	Greenwood	McKinney, J. T. (2 EE)	Anderson
McCConnell, T. S. (1 IM)*	Lancaster	McKittrick, C. W. (1 IM)	Easley
McCord, H. C. (3 Pre-Med)	Hodges	McLaulin, N. S. (4 ME)	Panama City, Fla.
McCormack, A. (1 EE)*	Spindale, N. C.	McLaurin, C. L. (2 EE)	Gaffney
McCormick, E. E. (1 Ed)*	McColl	McLaurin, C. S. (2 Agron)	McColl
McCormick, H. W. (3 ME)	Charleston	McLaurin, H. M. (4 Hort)	Wedgfield
McCormick, V. P. (4 EE)	Ward	McLaurin, J. S. (2 CE)	Clio
McCown, G. M. (2 Pre-Med)	Florence	McLean, J. D. (3 ME)	Spartanburg
McCown, W. B. (3 For)	Darlington	McLees, R. B. (4 CrEn)	Sumter
McCown, W. H. (4 ME)	Williamston	McLellan, G. R. (1 AH)	Dillon
McCoy, B. S. (1 IM)	Anderson	McLeod, D. L. (1 EE)*	Blaney
McCoy, H. H. (2 IM)	Greenville	McLeod, L. G. (3 AgEn)	Timmons
McCoy, J. D. (2 A&S)	Anderson	McLeod, N. A. (2 For)	Latta
McCoy, J. P. (1 EE)	Sumter	McLeod, W. W. (1 Hort)	McBee
McCoy, K. D. (1 A&S)*	Sumter	McLoughlin, B. A. (4 EE)	Utica, N. Y.
McCoy, R. C. (4 EE)	Iva	McMahon, F. W. (2 EE)	Charleston
McCoy, R. L. (1 ME)*	Sumter	McMakin, B. R. (2 CE)	Greer
McCoy, W. R. (1 CE)*	Anderson	McManus, R. V. (2 EE)	Lancaster
McCrary, R. B. (1 CE)*	Brevard, N. C.	McMillan, H. H. (1 CE)*	Demorest, Ga.
McCravy, E. P. (3 A&S)	Easley	McMillan, J. H. (3 EE)	Branchville
McCullough, L. E. (1 Chem)*	Newberry	McMillan, J. L. (2 IM)	Bamberg
McCullough, M. E. (1 TMT)*	Hendersonville, N. C.	McMillan, R. W. (1 Agron)	Allendale
McCullough, W. E. (1 ME)	Spartanburg		
McCutchen, H. L. (4 ChE)	Clemson		
McCutcheon, R. C. (1 AgEd)	Lake City		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
McMillan, W. J. (G Agron)**	Allendale	Martin, L. H. (1 AgEc)*	Conway
McMillian, W. W. (G Ent)**	Florence	Martin, M. V. (2 Pre-Med)	Blackville
McMullan, R. H. (2 IM)	Cornelia, Ga.	Martin, O. J. (1 Tmt)*	Greenville
McMullan, T. P. (1 AH)*	Miami, Fla.	Martin, O. M. (1 EE)*	Mullins
McNeill, R. G. (1 IM)*	Greenville	Martin, W. B. (4 For)	Strother
McPhail, W. H. (1 AH)	Seneca	Martin, W. C. (Unc)**	Clemson
McPherson, D. J. (1 CE)*	Cheraw	Martin, W. E. (1 Tmt)*	Marion, N. C.
McPherson, J. B. (2 CE)*	Hartwell, Ga.	Martin, W. H. (4 Ed)	Easley
McPherson, J. R. (1 CE)*	Greenville	Martin, W. P. (3 EE)	Charleston Heights
McQueen, S. B. (2 AgEc)	Galivants Ferry	Marvin, J. C. (2 CrEn)	Aiken
McRary, B. R. (1 IM)*	Granite Falls, N. C.	Masneri, R. P. (1 Ed)	California, Pa.
McSwain, J. A. (2 EE)	Durham, N. C.	Massingill, W. B. (4 IM)	Easley
McTeer, H. E. (1 EE)	Clemson	Masters, D. W. (4 EE)	Clinton
McTeer, J. E. (1 IM)	Frogmore	Mathewes, J. K. (4 EE)	Charleston
McTeer, P. M. (2 EE)	Hartsville	Mathews, H. G. (1 ME)*	Canton, N. C.
McTeer, T. B. (3 EE)	Hampton	Mathews, K. (1 Chem)*	Warrenville
Mabry, J. M. (3 TE)	Greenville	Mathis, J. W. (1 Tmt)*	Converse
Mabry, W. L. (1 ME)*	Beaufort	Mathis, W. H. (2 Hort)	Manchester, Ga.
Maccione, J. A. (4 IM)	Greenville	Matin, A. S. (G Ent)*	Bagra, Pakistan
Macfarlane, E. K. (G CrEn)*	Pueblo, Colo.	Matin, B. (2 Arch)*	Teheran, Iran
Macfie, J. A. (3 Chem)	Brevard, N. C.	Matthews, E. G. (1 ChE)*	Rock Hill
Mack, F. W. (4 AgEd)	North	Matthews, H. M. (2 Ed)	Lake City
Mack, K. B. (3 Hort)	Jackson	Matthews, K. E. (1 ME)*	Union
Mackey, F. C. (4 TMg)	Bennettsville	Matthews, R. L. (1 E)*	Atlanta, Ga.
Madden, S. L. (4 IM)	Greenwood	Matthews, T. M. (1 IM)	Cheraw
Maddox, E. R. (3 Chem)	Springfield, Pa.	Mattison, J. R. (3 IM)	Clemson
Maddox, J. M. (1 IM)	Anderson	Mauldin, J. A. (2 CE)	Six Mile
Maddox, W. H. (1 IM)	Easley	Mauldin, J. L. (1 ME)*	Clemson
Maffett, J. B. (1 ChE)*	Saluda	Maw, B. J. (4 Pre-Med)	Central
Magann, W. F. (3 IM)	Camden, N. J.	Maxwell, C. A. (3 IE)	Aiken
Magill, J. B. (1 Ed)	Concord, N. C.	Maxwell, E. W. (2 EE)	Greenville
Magill, R. V. (1 A&S)*	Greenville	Maxwell, J. C. (2 EE)	Aiken
Maguire, R. H. (1 Arch)*	Charleston	May, J. C. (1 For)	Greenwood
Mahaffey, D. C. (4 TMg)	Gramling	May, R. C. (1 IM)	Rock Hill
Mahaffey, F. L. (1 TS)	Gramling	May, R. O. (2 IE)	Greenville
Mahaffey, G. T. (1 Tmt)*	LaGrange, Ga.	Maybry, J. B. (1 For)*	Campobello
Mahaffey, J. G. (1 ChE)*	Greer	Mayer, E. W. (1 AgEd)	Newberry
Maheronnaghsh, M. (4 Arch)	Bid-abad Isfahan, Iran	Mayfield, J. T. (4 EE)	Marietta
Makela, B. J. (1 For)*	Bishopville	Mays, L. M. (2 A&S)	Walhalla
Malphrus, O. D. (2 CE)	Ridgeland	Meador, D. J. (4 ME)	Atlanta, Ga.
Malphrus, R. M. (1 AgEc)	Ridgeland	Meares, L. J. (1 EE)	Pelzer
Manchester, D. (1 For)*	Cotuit, Mass.	Meares, T. H. (1 EE)*	McBee
Mandy, J. A. (3 CrEn)	Brooklyn, N. Y.	Medlin, J. H. (2 ME)	Westminster
Manger, A. R. (3 ME)	Myrtle Beach	Medlock, J. C. (1 EE)*	Pendleton
Manger, B. E. (3 IM)	Myrtle Beach	Meggett, W. G. (1 Hort)	Charleston
Mangum, M. (3 For)	Spartanburg	Mehta, V. R. (PG Arch)	Bombay, India
Manis, D. E. (3 ME)	Pacolet Mills	Meier, S. K. (1 Ed)*	Englewood, N. J.
Manly, N. F. (1 EE)*	North Augusta	Melton, L. H. (1 For)	Chester
Mann, W. K. (4 Arch)**	Kingsport, Tenn.	Melton, T. D. (3 TMg)	Spartanburg
Marbert, J. A. (4 ME)	Edgefield	Mercer, G. L. (1 E)*	Summerville
Marbert, W. (1 Dairy)	Edgefield	Mercer, W. L. (1 CE)	Georgetown
Marchant, T. W. (2 ChE)	Graniteville	Merchant, C. M. (1 CE)*	Bamberg
Marchbanks, J. T. (1 EE)*	Travelers Rest	Merchant, J. L. (4 EE)	Charleston Heights
Marinos, H. (2 EE)	Greenville	Merck, H. L. (1 IM)	Central
Marinos, P. (4 EE)	Greenville	Merck, J. K. (G AgEn)**	Bishopville
Markley, J. H. (1 A)*	Westwood, N. J.	Merritt, J. E. (1 AgEn)*	Piedmont
Marsh, W. R. (2 IM)	Union	Metts, G. W. (2 CrEn)	Belvedere
Marshall, A. S. (3 Arch)	Heath Springs	Metts, L. W. (2 IM)	Orangeburg
Marshall, P. M. (1 ME)*	Sumter	Metts, W. T. (1 IM)*	Pickens
Martin, B. D. (1 IM)	Anderson	Middleton, H. W. (4 Arch)	Sumter
Martin, D. E. (3 Arch)	Newark, Del.	Middleton, M. W. (G Ed)**	Williamston
Martin, D. F. (Unc)**	Anderson	Middleton, R. E. (3 CrEn)	Clearwater, Fla.
Martin, D. W. (2 IM)	North Charleston	Mikkelsen, H. D. (PG Arch)	Clemson
Martin, F. F. (3 Pre-Med)	Newberry	Miler, G. G. (1 EE)*	Summerville
Martin, F. H. (3 ME)	Fort Mill	Miles, M. E. (1 Chem)*	Dallas, Texas
Martin, G. B. (3 ChE)	Newberry	Miley, D. H. (4 Arch)	Walhalla
Martin, G. W. (2 EE)	Greenville	Miller, B. C. (2 CrEn)	Salisbury, N. C.
Martin, H. C. (4 Pre-Med)	Liberty	Miller, D. H. (1 Tmt)*	Clemson
Martin, H. L. (2 Arch)	Greenville	Miller, D. K. (1 AgEn)*	Salters
Martin, J. C. (1 ME)	Abbeville	Miller, E. L. (3 CrEn)	Statesville
Martin, Jackson D. (1 AgEd)	Williamston	Miller, E. N. (4 Dairy)	Columbia
Martin, Jerry D. (1 ME)	Williamston	Miller, J. C. (1 ChE)*	York
Martin, J. E. (3 EE)	Dillon	Miller, J. D. (2 ME)	Greenville
Martin, J. M. (1 EE)*	Coral Gables, Fla.	Miller, L. C. (2 AgEn)	Spartanburg
Martin, J. O. (1 Pre-Med)*	Blackville	Miller, L. P. (4 TMg)	Walhalla
Martin, L. D. (1 ME)*	Union	Miller, V. L. (G Zool)**	New Ellenton
		Miller, W. E. (G CrEn)*	Salisbury, N. C.
		Miller, W. H. (3 Chem)	Hartsville
		Miller, W. M. (2 ME)	Spartanburg

Name and Course	Address
Milling, W. S. (1 EE)*	Greenwood
Mills, C. L. (1 IM)*	Gloverville
Mills, D. L. (3 EE)	Greensburg, Pa.
Mills, G. H. (1 ChE)*	Hampton
Mills, J. A. (3 EE)	Sumter
Mills, J. D. (2 For)	Blackstock
Mills, W. C. (4 AgEn)	Blackstock
Millwood, H. T. (1 ME)	Buffalo
Milner, A. P. (1 Arch)*	Charleston Heights
Mims, G. I. (1 EE)*	Manning
Mims, R. C. (G Ed)**	Eutawville
Minors, J. C. (4 IM)	Great Falls
Minyard, J. L. (3 EE)	Anderson
Mishoe, J. R. (1 AgEn)*	Conway
Missroon, L. G. (1 For)	Georgetown
Mitcham, M. S. (2 EE)	Camden
Mitchell, E. D. (2 CE)	Charlotte, N. C.
Mitchell, J. T. (1 CE)*	Rock Hill
Mitchell, R. Harrison (1 CrEn)*	Laurens
Mitchell, Robert H. (1 EE)*	Greenville
Mixon, E. I. (1 Ed)*	Columbia
Miyares, B. O. (4 ME)	Havana, Cuba
Miyares, C. H. (4 ME)	Havana, Cuba
Mizell, R. T. (2 ME)	St. George
Mobley, G. J. (1 ChE)*	Kershaw
Mobley, G. W. (1 ME)*	Augusta, Ga.
Mobley, R. H. (2 EE)	Bethune
Moehlenbrock, F. A. (1 A&S)*	Greenville
Molony, J. G. (1 IM)	Aiken
Molony, W. I. (G Chem)	Charleston
Monroe, B. S. (2 IM)	Anderson
Monroe, J. H. (4 A&S)	Clemson
Monson, R. E. (1 Arch)*	Myrtle Beach
Montgomery, L. K. (3 Arch)	Kingsree
Montville, D. M. (2 IE)	Decatur, Ga.
Moody, A. R. (1 CrEn)*	Yonges Island
Moody, B. D. (PG CrEn)	Seneca
Moody, H. G. (1 Phys)*	Calhoun Falls
Moody, R. C. (1 E)*	Taylor
Moody, W. H. (1 ChE)*	Spartanburg
Mooney, F. K. (2 Arch)	Columbia
Moore, A. P. (3 IM)	Savannah, Ga.
Moore, B. O. (1 TS)	Chickasaw, Ala.
Moore, C. D. (2 ChE)	Simpsonville
Moore, C. E. (1 EE)*	Spartanburg
Moore, C. L. (4 Phys)	Sumter
Moore, G. M. (G)**	Seneca
Moore, G. R. (3 EE)	Greenwood
Moore, J. A. (1 A&S)**	Seneca
Moore, J. C. (1 Arch)*	North Augusta
Moore, J. F. (1 EE)*	Canton, N. C.
Moore, J. T. (1 IM)	McCull
Moore, J. W. (3 For)	Taylor
Moore, L. A. (2 ME)	Charlotte, N. C.
Moore, L. J. (G Chem)**	Union
Moore, L. W. (1 ME)*	North Charleston
Moore, M. C. (3 A&S)	Seneca
Moore, M. D. (1 AgEd)*	Hemingway
Moore, M. S. (PG CrEn)	Charleston
Moore, R. L. (3 EE)	Lockhart
Moore, R. S. (1 IM)	Greenwood
Moore, W. E. (1 Pre-Med)	Simpsonville
Moore, W. Franklin (2 IM)	Fort Mill
Moore, W. Furman (G TC)**	Taylor
Moore, W. N. (1 CE)*	Ninety Six
Moore, W. R. (1 EE)*	Newberry
Moorhead, J. L. (1 IM)	Laurens
Moorhead, N. E. (2 CrEn)	Gaffney
Moorhead, W. (1 ME)	Greenville
Moormann, H. M. (2 Arch)	Charleston Heights
Morgan, J. H. (1 Tmt)	Whitney
Morgan, P. T. (2 IM)	North Great Falls, Mont.
Morgan, R. L. (1 IM)	New Martinsville, W. Va.
Morgan, T. F. (1 IM)*	Greenville
Morrison, D. A. (1 ME)	Hartsville
Morrison, F. J. (2 Tmt)	Hartsville
Morrison, J. S. (1 CE)*	Hartsville
Morrison, P. C. (1 A&S)*	Garwood, N. J.

Name and Course	Address
Morrison, W. L. (2 IM)	Summerville
Morrow, C. H. (4 IM)	Clover
Morrow, W. G. (4 EE)	Shelby, N. C.
Morse, G. D. (1 ME)	Atlanta, Ga.
Morton, G. C. (2 ChE)	Arlington, Va.
Moser, R. N. (2 CrEn)	Sarver, Pa.
Moser, R. W. (2 IE)	Chester
Moss, M. (1 CE)	Greenville
Mozingo, J. P. (1 Pre-Med)*	Darlington
Muckenfuss, G. E. (1 ME)*	Summerville
Muckenfuss, G. L. (1 Arch)	Greenville
Muckenfuss, J. W. (1 IM)	Aiken
Mueller, T. E. (2 ME)	Clemson
Muldrow, J. (1 ME)*	Mayesville
Mull, B. R. (3 IE)	Greenville
Mulligan, R. H. (2 TS)	Columbia
Mullinax, W. B. (PG IE)**	Clemson
Mullis, G. G. (2 TMg)	Spartanburg
Mullis, H. J. (2 Tmt)	Hartsville
Mullis, J. W. (4 EE)	Lancaster
Mundy, R. M. (3 IE)	Ware Shoals
Munford, R. E. (4 Phys)	Anderson
Munn, F. W. (2 IM)	Rock Hill
Muri, A. T. (1 Pre-Med)	Cheraw
Murph, W. S. (2 CrEn)	Aiken
Murphree, J. H. (G Ed)**	Tamassee
Murphy, C. W. (1 Tmt)*	Newry
Murphy, J. M. (3 EE)	Charleston Heights
Murphy, L. M. (2 ChE)	Joanna
Murphy, W. J. (1 IM)*	Trenton
Murr, C. D. (1 For)*	Canton, N. C.
Murray, J. C. (1 ME)*	Edisto Island
Murray, J. G. (2 AH)	Edisto Island
Murray, J. L. (1 IM)	Augusta, Ga.
Muzekari, B. (2 A&S)	Greenville
Myers, C. R. (3 For)	Westminster
Myers, D. E. (G AgEc)**	Ypsilanti, Mich.
Myers, J. A. (3 EE)	Greer
Myers, J. H. (1 CE)*	Greenville
Myers, R. E. (1 Pre-Vet)	Lynchburg
Nalley, C. E. (4 Chem)	Easley
Nalley, D. W. (2 EE)	Easley
Nalley, G. B. (3 IM)	Easley
Nalley, M. W. (1 Ed)**	Clemson
Nalley, W. M. (3 ME)	Liberty
Nance, L. A. (2 AgEn)	Galivants Ferry
Nance, L. E. (G Chem)**	Galivants Ferry
Nanney, A. B. (1 Tmt)	Chester
Nantz, J. A. (1 IM)	Iron Station, N. C.
Nasim, M. (2 ME)	Lahore, Pakistan
Nasim, M. I. (4 TMg)	Karachi, West Pakistan
Nation, F. R. (2 EE)	Pacolet Mills
Nawam, I. M. (4 TMg)**	Sidon, Lebanon
Neal, B. L. (2 TC)	Rock Hill
Neal, J. A. (4 Arch)	Greenville
Neal, R. D. (3 EE)	Anderson
Neal, W. C. (2 TMg)	Spartanburg
Neal, W. D. (1 ME)*	Woodruff
Neel, H. J. (G Ed)**	Clemson
Neel, R. C. (3 AH)	Silverstreet
Neely, C. A. (1 EE)*	Florence
Neely, R. J. (1 Pre-Med)*	York
Neely, R. O. (1 Tmt)*	Rock Hill
Neild, C. (2 ME)*	Greenville
Nelson, A. R. (3 ME)	Columbia
Nelson, H. A. (1 IM)*	Atlanta, Ga.
Nelson, J. C. (2 Chem)	Greenville
Nelson, J. W. (4 IM)	Piedmont
Nelson, L. B. (1 For)*	Columbia
Nerlinger, L. (1 E)	Wilmington, Del.
Nesmith, V. H. (1 A&S)*	Nesmith
Nettles, E. W. (4 Agron)	Sumter
Nettles, J. A. (3 A&S)	Clemson
Nettles, J. R. (2 CE)	Charleston
Nettles, W. C. (G Ent)	Clemson
Newhall, F. G. (2 CE)	Hilton Head
Newman, L. B. (3 CE)	Clemson
Newman, Q. B. (1 CE)*	Clemson
Newton, A. F. (G)**	Clemson

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Newton, C. E. (2 IM)	Clemson	Owens, R. (1 CE)*	Georgetown
Newton, C. I. (1 IM)	Augusta, Ga.	Owens, W. M. (4 TC)	Gibson, N. C.
Newton, H. H. (1 EE)	Central	Owings, A. P. (1 Pre-Med)*	Charleston
Newton, H. J. (2 ME)	Hartsville	Owings, C. R. (2 IM)	Greenwood
Newton, J. J. (1 ME)*	Clemson	Owings, H. H. (3 IM)	Greenwood
Newton, R. N. (1 IM)*	Clemson	Owings, N. C. (1 Pre-Med)*	Union
Nichols, F. M. (4 A&S)	Savannah, Ga.	Pace, H. D. (3 IM)	Pickens
Nichols, J. B. (3 Chem)	Sumter	Pace, K. L. (3 Arch)	Sumter
Nichols, K. E. (3 ChE)	Charleston	Packard, D. B. (2 CE)*	Jacksonville, Fla.
Nichols, P. W. (1 For)	Ridgeway	Padgett, A. L. (G AgEc)**	Aiken
Nicholson, J. A. (1 Arch)*	San Antonio, Fla.	Padgett, G. L. (3 ME)	McCormick
Nicholson, J. E. (1 CE)	Ware Shoals	Padgett, J. G. (3 ME)	McCormick
Nickles, T. E. (1 EE)*	Hodges	Padgett, J. W. (1 Ed)	Trenton
Nickles, W. L. (2 EE)	Abbeville	Padgett, L. G. (2 EE)	Buffalo
Nicoll, J. C. (1 Tmt)*	Greenville	Padgett, W. H. (2 CE)	Cross
Nimmer, S. J. (2 Pre-Vet)	Ridgeland	Page, A. D. (3 EE)	Marion
Nix, D. J. (1 IM)	Anderson	Page, D. K. (4 Agron)	Mullins
Nolan, F. D. (1 Pre-Vet)*	Spartanburg	Page, J. M. (1 AgEn)*	Oswego
Nolan, M. P. (2 Ent)	Marion	Page, J. R. (1 AgEd)	Galivants Ferry
Nolte, R. T. (2 EE)	Charleston	Page, J. W. (1 Tmt)*	Nichols
Norman, C. W. (3 ME)	Alexandria, La.	Page, M. E. (2 AH)	Sellers
Norman, F. C. (1 A&S)*	Clemson	Page, O. E. (2 AgEd)	Nichols
Norman, J. T. (2 Ed)	Clemson	Page, O. R. (2 AgEd)	Dillon
Norris, B. C. (1 AgEn)	Central	Palassis, C. N. (1 Tmt)	Charleston
Norris, B. J. (2 Ed)	Easley	Palmer, F. C. (1 EE)	Rock Hill
Norton, C. C. (1 Chem)*	Dillon	Palmer, J. G. (2 IM)	Anderson
Norton, C. W. (1 A&S)	North Charleston	Palmer, J. S. (1 AgEn)*	Saluda
Norton, J. H. (2 EE)	Murphreesboro, Tenn.	Pappas, C. D. (PG EE)	Charleston
Norton, L. N. (G AgEc)	Nichols	Parillo, J. A. (4 Arch)**	West Catasauqua, Pa.
Norton, T. L. (2 For)	Dillon	Parker, C. V. (4 AgEd)	Pisgah Forest, N. C.
Norwood, C. C. (1 EE)*	Florence	Parker, G. E. (4 Arch)	Sumter
Nuckolls, T. J. (1 IM)	Charlotte, N. C.	Parker, J. P. (1 EE)*	York
Nunamaker, J. L. (1 AgEc)	Manning	Parker, P. R. (1 ChE)*	Rock Hill
Nunnery, S. A. (G AgEn)**	Clemson	Parker, R. N. (1 AH)	Anderson
Nunnery, W. B. (2 EE)	Rock Hill	Parker, R. R. (4 Phys)	Anderson
Nutt, J. W. (3 AgEn)	Clemson	Parkerson, L. D. (4 ME)	Gastonia, N. C.
Oates, H. G. (4 AgEc)	York	Parkes, R. G. (3 Phys)	North Augusta
O'Barr, M. H. (1 CrEn)	Anderson	Parkins, R. A. (1 EE)*	Greenville
Oberstar, J. G. (2 EE)**	Sunset	Parks, F. L. (1 CE)*	Charleston Heights
O'Brien, J. S. (3 A&S)	Columbia	Parks, W. P. (2 AgEc)	McCormick
O'Brien, R. E. (G Ent)**	Eutawville	Parris, R. E. (3 ME)	Clemson
O'Connor, J. G. (4 ME)	Fanwood, N. J.	Parris, S. D. (2 CrEn)	Gaffney
O'Dell, W. R. (1 EE)*	Union	Parrish, F. J. (2 Arch)	Dillon
Odom, J. H. (1 E)*	Williston	Parrish, R. J. (1 IM)	Easley
Odom, R. E. (2 ME)	Greenville	Parsons, J. F. (2 Arch)*	Decatur, Ga.
O'Donnell, C. H. (1 ME)	Charlotte, N. C.	Parsons, S. A. (3 ME)	Georgetown
O'Donnell, M. T. (1 ME)	Charlotte, N. C.	Parsons, W. E. (PG EE)	Sumter
Oeland, P. J. (1 For)*	Greenville	Partin, J. H. (1 CE)	Sumter
Ohlman, E. M. (4 CE)	Greenville	Parton, C. F. (2 ME)	Rutherfordton, N. C.
Oliver, C. G. (3 IM)	London, Canada	Parton, R. M. (1 ME)	Rutherfordton, N. C.
Oliveros, R. L. (Unc)**.*	Clemson	Pasqualini, C. V. (1 Pre-Med)	Havre de Grace, Md.
Olson, D. E. (2 CE)	Decatur, Ga.	Passmore, R. C. (2 EE)	Joanna
Olson, H. V. (2 A&S)	Decatur, Ga.	Pate, J. A. (4 A&S)	Columbia
Olson, L. G. (2 Ed)	Decatur, Ga.	Pate, R. M. (1 ME)*	Hartsville
O'Neal, S. K. (1 Pre-Med)*	Fairfax	Patel, K. I. (G TC)*	Ahmedabad, India
Opperman, K. H. (1 ME)	Seneca	Patel, M. H. (1 ME)*	Nairobi, British E. Africa
O'Quinn, R. W. (2 ChE)	Spartanburg	Patrick, W. L. (2 Tmt)*	Charleston Heights
Orenstein, I. M. (3 Ent)	Merrick, N. Y.	Patten, F. C. (1 ChE)*	Timmonsville
O'Riley, M. (1 IM)*	North	Patterson, C. L. (3 EE)	Beaufort
Orr, F. H. (1 TMg)	Spartanburg	Patterson, E. R. (1 IM)*	Columbia
Orr, J. R. (1 ME)	Greenville	Patterson, I. M. (1 IM)*	Columbia
Orsini, V. A. (2 ApMath)	Guantanamo, Cuba	Patterson, J. R. (PG)**	Campobello
Osborne, R. P. (1 Tmt)	Cleveland, Ga.	Patterson, L. R. (1 Pre-Med)*	Piedmont
Osborne, T. B. (1 E)*	Fort Mill	Patterson, W. A. (1 Arch)*	Anderson
Osborne, W. G. (3 ChE)	Fort Mill	Pavilack, H. (1 IM)*	Pittsburgh, Pa.
O'Shields, B. J. (1 ME)*	Mountville	Paxton, E. H. (4 CE)	Seneca
Osmer, T. M. (2 EE)	Kingstree	Payne, J. H. (1 ME)*	Piedmont
Osteen, W. G. (2 ME)	Greenville	Payne, Jim H. (2 Ed)	Decatur, Ga.
Outen, M. D. (4 Arch)	Columbia	Pearce, B. M. (4 Arch)	Fort Mill
Ouzts, F. W. (2 EE)	Callison	Pearce, R. L. (3 EE)	Kankakee, Ill.
Overton, C. T. (1 ME)*	Salisbury, N. C.	Pearson, B. H. (3 EE)	Florence
Owen, A. D. (1 Tmt)	Easley	Pearson, T. W. (1 ChE)*	Spartanburg
Owen, B. L. (4 ME)	Laurinburg, N. C.		
Owen, W. F. (1 IM)*	Central		
Owen, W. H. (2 EE)	Liberty		
Owens, B. A. (1 AH)	Taylors		
Owens, B. J. (2 CE)	Hemingway		
Owens, L. E. (1 AH)	Columbia		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Peay, J. B. (1 ME)*	Bennettsville	Porter, H. A. (1 AgEd)**	Pickens
Peck, W. H. (1 EE)*	Gainesville, Ga.	Poston, J. A. (1 ChE)*	Pamplico
Peebles, W. P. (4 IM)	Greenville	Poteat, D. W. (1 A&S)*	Charleston Heights
Peek, R. E. (1 CE)*	Charleston	Potter, L. L. (3 ME)	Littlestown, Pa.
Peek, S. C. (2 ME)*	Marshall, N. C.	Potter, R. W. (1 ME)	Piedmont
Peeler, R. E. (2 ME)*	Asheville, N. C.	Pou, J. C. (1 AgEd)	Livingston
Peeples, N. (2 EE)	Charleston	Pound, M. E. (1 EE)*	Greenville
Pelter, A. A. (2 ME)	Baltimore, Md.	Powell, B. J. (1 TS)*	Chester
Pendarvis, Z. A. (4 TMg)	Dorchester	Powell, C. J. (1 IM)*	Pittsburgh, Pa.
Peoples, E. D. (4 Arch)	South Pittsburg, Tenn.	Powell, C. K. (2 EE)	Greenwood
Perkins, H. H. (4 TC)	Ellore	Powell, J. H. (2 ME)	Waterloo
Perry, C. E. (2 ME)	Ridgeland	Powell, J. T. (2 Dairy)	West Union
Perry, S. S. (1 ChE)*	Greenville	Powell, M. J. (1 Dairy)	West Union
Perry, T. C. (2 ME)	Greenville	Powell, M. P. (3 Arch)	Mullins
Pessanha, D. R. (Unc)*	Rio de Janeiro, Brazil	Powell, R. E. (1 Arch)	Conway
Peterson, C. H. (2 Arch)	Maspeth, N. Y.	Powell, R. L. (2 Arch)	Tampa, Fla.
Pettigrew, C. A. (3 AH)	Abbeville	Power, H. J. (2 Phys)	Saluda
Pettus, J. L. (4 EE)	Clover	Powers, D. A. (4 TMg)	Lamar
Petty, B. R. (3 EE)	Spartanburg	Powers, G. T. (2 TMg)	Columbia
Petty, J. H. (1 ChE)*	York	Powers, K. W. (4 TMg)	Stonington, Maine
Phillips, B. R. (2 TMg)	Anderson	Pratt, J. A. (2 ChE)	Liberty
Phillips, C. J. (4 EE)	Gaffney	Presley, R. F. (1 AH)	Spartanburg
Phillips, E. H. (2 Pre-Vet)	Green Pond	Pressley, G. H. (2 ME)	Asheville, N. C.
Phillips, G. E. (3 ChE)	Gaffney	Pressley, J. M. (2 IM)	Pisgah Forest, N. C.
Phillips, George W. (1 CE)	Lancaster	Preston, D. W. (1 ME)*	Tryon, N. C.
Phillips, Glenn W. (1 ME)*	Tampa, Fla.	Preston, J. Michael (1 IM)	Tryon, N. C.
Phillips, James A. (4 EE)	Rock Hill	Preston, J. Montgomery (3 Arch)	Columbia
Phillips, Joseph A. (4 TE)	Williamston	Preston, L. D. (2 EE)	Columbia
Phillips, J. B. (1 IM)	Fort Mill	Price, A. L. (2 ChE)	Rock Hill
Phillips, J. L. (2 EE)	North Augusta	Price, G. O. (1 EE)*	Gaffney
Phillips, J. U. (3 Ed)	Walhalla	Price, H. D. (4 Agron)	Casar, N. C.
Phillips, R. E. (2 Chem)	Rock Hill	Price, S. C. (1 Pre-Med)	Toccoa, Ga.
Phillips, R. G. (3 ME)	Walhalla	Price, W. T. (1 Arch)*	Wadmalaw Island
Phillips, T. A. (2 Agron)	Lynchburg	Pridmore, R. G. (1 EE)	Walhalla
Phillips, W. F. (2 Tmt)	Abbeville	Pridmore, W. K. (3 EE)	Fort Mill
Phillips, W. L. (2 ME)	Lakeland, Fla.	Priester, L. E. (G Chem)**	Georgetown
Phillips, W. O. (1 EE)*	Mt. Pleasant	Priester, R. W. (3 EE)	Grover, N. C.
Phillips, W. T. (1 AgEn)*	Kingstree	Prince, R. F. (2 EE)	Laurens
Phillpott, E. R. (3 CrEn)	New Orleans, La.	Proctor, C. (1 EE)*	Aiken
Phinney, W. A. (1 ME)	Tarawa Terrace, N. C.	Proctor, C. B. (1 AgEc)*	Dillon
Phipps, D. P. (1 InEd)	Columbia	Proctor, E. R. (2 Arch)	Greenwood
Pickens, J. P. (G AgEd)**	Taylor	Proffitt, J. C. (2 ME)**	Greenville
Pierce, L. B. (2 For)	Camden	Pruett, J. E. (2 ME)	Drayton
Pierce, R. O. (1 IM)*	Atlanta, Ga.	Pruitt, G. S. (2 IM)	Portsmouth, Va.
Pilot, J. S. (4 Ed)	Rankin, Pa.	Pruitt, J. H. (Unc)**	Hartwell, Ga.
Pinckney, J. A. (4 Arch)	Greenville	Pruitt, J. N. (1 ChE)	Duncan
Pittman, J. F. (G AgEc)**	Seneca	Pruitt, J. R. (3 EE)	Seneca
Pitts, A. H. (2 EE)	Greenwood	Pruitt, W. B. (4 CE)	Anderson
Pitts, D. L. (3 EE)	Greenville	Pryor, H. E. (4 ChE)	West Columbia
Pitts, F. E. (4 IM)	Greenwood	Puckhaber, H. H. (3 EE)	Charleston
Pitts, J. D. (1 EE)*	Greenwood	Purkerson, R. H. (2 CE)	Greenwood
Pitts, L. W. (1 ChE)	Columbia	Putman, C. E. (3 CE)	Gastonia, N. C.
Pitts, W. H. (1 AgEn)	Newberry	Putman, D. M. (4 Arch)	Laurens
Pitts, W. M. (1 IM)	Laurens	Putnam, G. R. (2 IM)	Anderson
Plant, J. H. (1 CrEn)*	Salisbury, N. C.	Putnam, H. W. (1 AgEd)*	Mount Berry, Ga.
Platt, B. A. (2 Arch)	Ocean Drive	Putnam, S. F. (3 Pre-Med)	Starr
Plaxco, J. C. (1 AH)	Lincolnton, N. C.	Pysar, E. J. (1 Hort)*	Harvey, Ill.
Player, F. L. (2 For)	Greeleyville	Quante, C. W. (1 ME)	Savannah, Ga.
Plyler, W. G. (2 IM)	Great Falls	Quarles, J. M. (1 ChE)*	Edgefield
Poe, S. E. (1 Arch)	Brunson	Quattlebaum, A. M. (1 CE)*	Florence
Polk, E. E. (1 ME)	Varnville	Queen, J. E. (1 EE)*	Gaffney
Polk, R. H. (2 CrEn)	Clemson	Queen, T. F. (2 TC)	Honea Path
Pollard, J. I. (G)**	Clemson	Query, R. M. (1 IM)*	Charlotte, N. C.
Polson, W. B. (1 For)*	Jackson	Quesenberry, G. H. (2 Ed)	Radford, Va.
Ponder, R. D. (3 IM)	Easley	Rabon, J. D. (4 ME)	Aynor
Ponder, T. B. (G NSc)***	Canton, Ga.	Rackley, C. A. (3 IM)	Easley
Poole, D. C. (3 CrEn)	Greenville	Ragin, J. J. (1 IM)	Rock Hill
Poole, D. L. (4 EE)	Rock Hill	Raines, G. T. (2 A)	Inman
Poole, E. A. (3 AH)	North	Raines, J. M. (4 TMg)	Landrum
Poole, E. R. (4 TC)	Travelers Rest	Ramey, W. S. (2 InEd)	Honea Path
Poole, J. F. (2 EE)	Florence	Rampey, J. H. (G Bact)*	Greenville
Poole, W. M. (1 CE)*	West Columbia	Rampey, W. P. (2 EE)	Easley
Poole, W. T. (3 ME)	Rock Hill	Ramsey, D. B. (2 AH)	Washington, D. C.
Poore, C. A. (2 Hort)	Greenwood	Ramsey, S. L. (1 E)*	Greenville
Poore, G. D. (2 CE)	Greenville	Randall, T. E. (2 IE)	Greenville
Porcher, J. L. (1 For)	Mt. Pleasant		
Porter, E. D. (3 Dairy)	Loris		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Raneri, A. A. (1 Phys)	Averill Park, N. Y.	Robbins, D. K. (2 EE)	Blacksburg
Rankin, J. J. (G AgEd)**	Salem	Robbins, J. W. (2 AgEn)	Inman
Rash, J. H. (G Ed)**	Chester	Roberson, J. H. (1 ME)*	Greenville
Rasheed, I. (1 ME)	Beit Merry, Lebanon	Roberts, C. L. (1 TS)*	Lancaster
Rast, B. M. (4 Agron)	Cameron	Roberts, D. L. (1 ME)	Spartanburg
Rast, J. M. (2 Phys)	Greenville	Roberts, F. A. (3 EE)	Chester
Ratchford, E. L. (1 Ed)	York	Roberts, J. B. (1 For)	Aiken
Ratchliffe, R. L. (2 ME)	Charleston	Roberts, J. H. (2 CrEn)	Ninety Six
Ratliff, R. C. (2 IM)	Aiken	Roberts, J. R. (1 IM)*	Charleston
Ratterree, P. C. (1 ChE)*	Rock Hill	Roberts, J. T. (2 Ed)	Six Mile
Rauch, C. M. (1 EE)	Lexington	Roberts, L. H. (1 IM)	Georgetown
Rauton, R. M. (4 AH)	Ridge Spring	Roberts, R. D. (2 AgEd)*	Asheville, N. C.
Ravenel, H. L. (1 IM)*	Charleston	Roberts, W. R. (4 Dairy)	Williamston
Ray, J. F. (1 IM)	Clemson	Robertshaw, W. L. (2 TMg)	Taylors
Rayon, R. L. (1 Tmt)	Flushing, N. Y.	Robertson, J. B. (1 Phys)*	Greenville
Reamer, C. S. (3 IM)	Philadelphia, Pa.	Robertson, J. D. (3 EE)	Midway Park, N. C.
Reamer, L. D. (2 EE)	Greenville	Robertson, T. M. (1 ME)*	Spartanburg
Redd, L. M. (4 ChE)	Charleston	Robertson, W. B. (1 ChE)*	Laurens
Redden, C. L. (1 ME)	Hartsville	Robinson, C. D. (1 Pre-Med)*	Seneca
Redding, G. R. (3 TMg)	Henderson, N. C.	Robinson, H. H. (1 ME)	Chester
Redeker, F. J. (1 EE)*	Sumter	Robinson, J. A. (G)**	Easley
Redmon, J. T. (3 AgEn)	Greenville	Robinson, J. C. (3 IM)	Lancaster
Reece, R. D. (2 CrEn)*	Greer	Robinson, J. D. (4 IE)	Seneca
Reeder, A. E. (3 ME)	Fort Mill	Robinson, R. L. (1 CE)*	Asheville, N. C.
Reel, E. S. L. (4 A&S)	Hickory, N. C.	Rochester, J. R. (1 Pre-Med)*	Salem
Reel, F. M. (4 CE)	Spartanburg	Rochester, W. F. (G EE)**	Clemson
Reese, D. R. (3 EE)	Greer	Roddey, R. S. (2 Tmt)	Greenwood
Reeves, R. A. (3 AgEn)	Seneca	Rodgers, A. D. (2 CE)	Sumter
Reid, J. C. (4 EE)	Charleston	Rodgers, D. T. (2 CrEn)	Greenville
Reid, T. P. (PG)**	Walhalla	Rodgers, J. C. (2 AH)	Williston
Rentz, H. H. (1 CE)*	Varnville	Rodgers, W. S. (2 EE)	Columbia
Rettew, R. R. (1 Chem)	Greenville	Rodriguez, F. O. (1 CE)	Havana, Cuba
Reynolds, R. G. (4 ME)	Harrisburg, Ill.	Rogers, D. K. (4 Ed)	Pelzer
Reynolds, R. W. (2 Tmt)	Greenville	Rogers, F. B. (1 IM)*	Pelzer
Rhem, C. F. (3 Hort)	Greer	Rogers, G. J. (2 IM)	Easley
Rhett, R. C. (1 ME)*	Charleston	Rogers, J. D. (2 CE)	Williamston
Rhodes, E. R. (1 EE)	Lake City	Rogers, J. F. (1 EE)*	Williamston
Rhodes, H. W. (2 IM)	Rock Hill	Rogers, J. H. (4 EE)	Savannah, Ga.
Rhodes, J. C. (2 ME)	Hartsville	Rogers, James L. (1 Dairy)	Mullins
Rhodes, J. W. (1 ME)*	Startex	Rogers, Jerry L. (4 TMg)	Williamston
Rhodes, W. S. (2 ChE)	Rock Hill	Rogers, J. M. (2 AgEn)	Mullins
Rhyne, J. L. (2 EE)	Spartanburg	Rogers, L. A. (1 EE)*	Easley
Rians, C. W. (1 CE)*	Charleston Heights	Rogers, M. D. (3 AgEc)	Cowpens
Rice, E. C. (1 IM)	Plum Branch	Rogers, R. B. (2 ME)	Mullins
Rice, J. D. (3 ME)	Greenwood	Rogers, R. K. (2 TMg)	Mullins
Rice, L. B. (G Phys)**	St. Francisville, Ill.	Rogers, Robert P. (1 Agron)	Blackville
Rice, R. R. (1 EE)*	Anderson	Rogers, Rodney P. (1 ME)*	Mullins
Rice, W. H. (1 CrEn)*	Greenville	Rogers, R. T. (2 ME)	Walhalla
Rice, William H. (3 CE)	Anderson	Rogers, T. L. (2 TMg)	Williamston
Richards, D. S. (4 Hort)	Charlotte, N. C.	Rogers, T. N. (2 AH)	Fork
Richardson, A. L. (4 EE)	Florence	Rogers, V. A. (PG)**	Abbeville
Richardson, A. P. (4 For)	Columbia	Rogers, W. F. (1 IM)*	Cayce
Richardson, E. D. (3 AgEd)	Gresham	Rogers, W. P. (2 AgEd)	Mullins
Richardson, F. L. (1 ChE)*	Lancaster	Rogerson, R. W. (1 EE)*	Georgetown
Richardson, H. E. (4 ChE)	Lancaster	Roller, J. A. (2 ME)	Camden
Richardson, J. A. (2 Dairy)	Great Neck, N. Y.	Rollo, J. M. (3 ME)	Jackson
Richardson, J. G. (1 ChE)*	Greenville	Ronemous, W. C. (1 ME)	Charleston
Richardson, W. L. (4 ME)	Toccoa, Ga.	Roper, W. C. (1 EE)*	Easley
Richbourg, J. R. (2 CrEn)	Clemson	Ros, J. V. (4 EE)	Georgetown
Richey, J. W. (4 EE)	Piedmont	Rosamond, J. E. (1 IM)	Greenville
Richey, R. M. (4 IE)	Baltimore, Md.	Rose, B. S. (1 For)*	Greenville
Rickenbaker, L. D. (3 ME)	St. George	Rose, G. S. (1 TC)	Camden
Riddle, J. E. (3 CrEn)	Greenville	Ross, C. B. (1 ME)*	North Charleston
Ridgill, J. O. (2 Arch)	Manning	Ross, G. A. (2 Arch)	Kingstree
Ridley, J. C. (2 CE)	Mountain Rest	Ross, W. E. (1 IE)	Easley
Rigdon, J. D. (3 EE)	Anderson	Roth, T. L. (2 EE)	Charleston
Riley, J. W. (2 AH)	Summerville	Rothell, R. D. (3 Chem)	Westminster
Riley, R. C. (G Ent)**	Scarsdale, N. Y.	Rourk, B. M. (1 IM)*	Charleston
Riley, W. M. (1 ME)*	Seneca	Rourke, J. E. (1 IM)*	North Charleston
Rimmer, H. W. (2 CE)	Clemson	Rourke, L. W. (1 Pre-Med)*	North Charleston
Ripley, E. G. (3 EE)	Greenville	Rousey, J. E. (2 ChE)	Spartanburg
Riser, W. H. (1 ChE)*	Whitmire	Rowe, H. B. (PG Pre-Vet)	West Palm Beach, Fla.
Rishel, E. B. (1 CE)*	Greenville	Rowe, R. L. (4 ME)	West Palm Beach, Fla.
Risher, J. H. (2 ChE)	Jackson	Rowe, W. S. (2 Pre-Vet)	Charleston
Roache, C. E. (1 AgEd)	Pelzer	Rowell, D. H. (1 IM)	Anderson
Roark, W. B. (1 IE)*	Blacksburg	Rowell, M. L. (1 IM)	Anderson
Robards, W. T. (4 CE)	Greenwood	Rowland, B. R. (4 IM)	Sandy Springs

Name and Course	Address	Name and Course	Address
Rowland, G. H. (1 ME)	Sumter	Skews, K. T. (1 IM)	Myrtle Beach
Rowland, H. R. (2 IM)	St. Marys, Ga.	Shalforoosh, A. Asghar (1 CE)*	Teheran, Iran
Rudisail, H. L. (2 ChE)	Greer	Shample, G. W. (2 A&S)	McKeesport, Pa.
Rudolph, C. C. (3 EE)	Savannah, Ga.	Shane, J. R. (2 ME)	Florence
Rugheimer, J. P. (1 Ed)	Charleston	Shank, T. L. (3 For)	Mullins
Rush, A. L. (4 IM)	Greenwood	Shankle, N. H. (1 EE)*	Mount Gilead, N. C.
Rush, C. L. (3 EE)	Greenwood	Shanley, M. A. (1 ME)	Bethesda, Md.
Rush, S. L. (1 Ed)*	Clemson	Shannon, D. P. (2 ME)*	Gastonia, N. C.
Rush, W. G. (3 TE)	Union	Shannon, R. J. (1 IM)	Chester
Russell, D. M. (2 ChE)	Florence	Shannon, W. H. (2 For)	Blackstock
Russell, E. D. (2 CE)	Florence	Sharpton, G. W. (4 TC)	McCormick
Russell, W. K. (1 CE)*	Sumter	Shaver, R. J. (2 TE)	Danville, Ill.
Ruth, R. E. (1 CE)	York	Shaw, B. F. (1 Arch)	Abbeville
Rutherford, J. S. (1 Phys)	Charlotte, N. C.	Shaw, W. A. (3 Chem)	Greenwood
Rutledge, E. E. (2 EE)	Sumter	Shealy, E. A. (1 ME)*	Seneca
Ryan, J. H. (2 CE)	Sumter	Shealy, J. D. (1 A&S)	Columbia
Ryan, L. J. (1 ME)*	Spencer, N. C.	Shealy, R. G. (2 CrEn)	Newberry
Ryttenberg, H. J. (2 Ent)	Sumter	Shealy, Robert W. (1 ME)*	Batesburg
Sabin, G. E. (4 For)	Charleston	Shealy, Rosalind W. (2 A&S)	Seneca
Sabiston, R. D. (1 IM)	Oakley	Shearin, A. T. (4 For)	Darlington
Sale, A. M. (1 ChE)*	North Augusta	Sheeley, D. R. (1 ChE)*	Newberry
Salette, E. L. (2 ME)	Port Wentworth, Ga.	Shell, R. C. (3 ME)	Fountain Inn
Salley, D. B. (3 CrEn)	Orangeburg	Shelley, B. B. (2 Ed)**	Clemson
Salley, M. G. (2 For)*	Orangeburg	Shelley, F. E. (G AgEd)	Cades
Samples, H. C. (1 EE)*	North Augusta	Shelley, J. L. (1 CE)*	Tabor City, N. C.
Sams, F. D. (4 ME)	Clemson	Shelton, B. N. (4 ME)	North Charleston
Sanchez, G. Z. (3 TMg)	Havana, Cuba	Shenman, J. E. (1 IM)	Staten Island, N. Y.
Sanders, B. L. (1 ME)*	Gaffney	Shepherd, K. G. (1 ME)*	Barnwell
Sanders, C. (4 AH)	Ritter	Sherard, R. C. (4 AgEc)	Calhoun Falls
Sanders, C. R. (2 EE)	Charleston	Sherer, L. H. (2 Arch)	Columbia
Sanders, C. T. (4 TMg)	Richburg	Sherer, R. L. (1 ME)*	Sharon
Sanders, H. L. (2 EE)*	Blacksburg	Sherman, J. E. (1 IM)	Clemson
Sanders, R. C. (1 IM)	Greenwood	Shick, C. R. (1 Phys)*	Sarver, Pa.
Sanders, R. K. (2 TMt)	Jonesville	Shick, R. L. (3 APMath)	Sarver, Pa.
Sanders, T. L. (3 CrEn)	Greer	Shideler, P. E. (1 EE)*	Aiken
Sanders, T. O. (2 ChE)	Kline	Shillinglaw, D. A. (1 EE)*	Blacksburg
Sanders, W. T. (2 ME)	Cordova	Shinde, V. K. (3 TE)	Yeotmal, B. S. India
Sanderson, W. M. (3 AH)	Dillon	Shingler, L. P. (2 CrEn)	Greenwood
Sandifer, G. T. (3 AH)	York	Shipman, C. L. (1 EE)	Sumter
Sarratt, S. C. (1 Arch)*	Gaffney	Shirley, H. R. (4 IM)	North Charleston
Satterfield, J. R. (1 CE)*	Greenville	Shirley, T. W. (1 IM)	Greenville
Satterfield, J. W. (1 CE)	Anderson	Shirley, W. A. (2 IM)	Honea Path
Sauls, E. N. (3 ME)	Charleston Heights	Shirley, W. H. (1 ChE)*	Ninety Six
Saunders, S. J. (2 TE)	Rock Hill	Shockley, D. E. (1 ME)*	Greenville
Savage, H. R. (2 ChE)	Sumter	Shoemaker, G. H. (3 Arch)	Odenton, Md.
Scarola, J. T. (2 Arch)	Brooklyn, N. Y.	Shore, R. J. (2 CrEn)	Greenville
Scarpa, E. A. (4 CrEn)	Charleston	Shuler, B. E. (1 AgEn)*	Holly Hill
Schachte, J. H. (1 ME)*	Charleston	Shuler, E. G. (1 EE)*	Santee
Schachte, W. L. (1 A&S)*	Charleston	Shull, J. L. (2 CrEn)	Lexington
Schilletter, W. A. (3 Arch)	Columbia	Siau, F. L. (2 ME)	Georgetown
Schirmer, F. B. (2 ChE)	Clemson	Sigg, F. G. (2 Arch)	Columbia
Schladensky, R. J. (1 ME)	Coolee, N. C.	Sijon, S. L. (2 IM)	Greenville
Schultz, F. J. (1 E)*	Abbeville	Sikes, J. L. (2 EE)	Charleston
Schumpert, J. M. (2 EE)	McCormick	Sikes, W. W. (1 EE)*	Arlington, Va.
Scoff, G. J. (1 CrEn)	Brackenridge, Pa.	Simmons, C. E. (3 EE)	Pickens
Scott, A. (1 IM)	Mamaroneck, N. Y.	Simmons, L. L. (4 EE)	Greenville
Scott, G. C. (2 IM)	Darlington	Simmons, W. C. (4 CrEn)	Greenville
Scott, G. D. (1 For)	Anderson	Simmons, W. R. (2 CE)	Greenville
Scott, H. L. (1 EE)*	Madison	Simpson, D. C. (2 EE)	Anderson
Scott, J. C. (3 IM)	Gaffney	Simpson, D. G. (1 ME)*	Chester
Scoville, W. N. (2 Arch)	Orangeburg	Simpson, M. B. (1 EE)*	Edgemoor
Scrudato, R. J. (1 A&S)*	Nutley, N. J.	Simpson, T. G. (1 ChE)*	Graniteville
Scruggs, M. J. (3 EE)	Greenville	Simpson, W. L. (4 CE)	Greenville
Scurry, W. M. (2 CE)	Chappells	Simpson, W. S. (1 Pre-Med)*	Iva
Seaber, J. A. (2 IE)	Blythewood	Simril, R. M. (2 TS)	Rock Hill
Sears, W. J. (1 IM)	Olar	Sims, J. N. (2 EE)	Greenville
Sease, J. D. (G CrEn)	Columbia	Sims, L. R. (1 EE)*	Central
Seastrunk, S. J. (3 Pre-Med)	Columbia	Sims, R. E. (3 TC)	Lancaster
Seay, C. W. (1 IM)*	Greenville	Sinclair, J. V. (1 AH)	Camden
Seidenstricker, J. A. (4 A&S)	Charlotte, N. C.	Sinclair, W. C. (2 EE)	Lancaster
Sellers, A. H. (1 ME)*	Conway	Singleton, J. E. (1 CE)	Walhalla
Senn, H. B. (G Ent)	Inman	Singleton, W. T. (1 AgEn)*	Westminster
Serrano, S. (1 AgEn)*	Quito, Ecuador	Skelton, B. J. (G Hort)**	Clemson
Sessions, H. T. (4 EE)	Conway	Skelton, G. M. (2 ME)	Greenville
Severy, P. R. (1 Chem)*	Hendersonville, N. C.	Skelton, T. E. (G Ent)	Clemson
Shalforoosh, A. A. (1 AgEn)*			

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Skinner, J. T. (3 IE)	Wedgfield Teheran, Iran	Stalvey, T. W. (3 EE)	Georgetown
Skinner, T. W. (1 ME)	Oswego	Stanley, H. R. (3 EE)	Conway
Slaton, J. A. (4 Phys)	Townville	Stanley, R. L. (2 IM)	Varnville
Slice, G. G. (1 AgEn)*	Chapin	Stansell, B. G. (1 CE)*	Easley
Slice, R. L. (2 EE)	Columbia	Stansell, J. T. (3 EE)	Easley
Sligh, E. E. (2 CE)	Norway	Stanton, D. L. (1 IM)	Clover
Sloan, A. P. (3 CrEn)	Mt. Pleasant	Stanton, R. C. (1 For)	Cassatt
Slough, R. S. (1 A&S)*	Dade City, Fla.	Stapleton, F. H. (2 IE)	Augusta, Ga.
Sluder, G. D. (1 EE)	Seneca	Starnes, G. K. (3 AgEd)	Lancaster
Small, R. D. (1 IM)	Greenville	Staton, J. P. (2 CE)	Greenville
Smalley, R. L. (3 ME)	Gaffney	Stecki, T. S. (3 ME)	Camden, N. J.
Smith, B. D. (1 ChE)*	Bishopville	Steed, E. E. (2 Chem)	Jackson
Smith, C. P. (3 EE)	Belton	Steed, J. H. (3 ME)	Jackson
Smith, C. R. (2 EE)	Hendersonville, N. C.	Steele, T. F. (1 TS)*	Lancaster
Smith, C. W. (3 TMg)	Union	Stephens, G. J. (4 A&S)	Central
Smith, D. E. (2 IM)	Sunset	Stephens, J. E. (2 IE)	Central
Smith, E. H. (1 ME)	Rock Hill	Stephens, L. B. (2 CrEn)	Greenville
Smith, E. S. (1 IM)	Charlotte, N. C.	Stepp, J. B. (2 EE)	Greer
Smith, H. D. (2 IM)	Gainesville, Ga.	Stevens, E. J. (3 EE)	Clemson
Smith, H. J. (1 Pre-Vet)*	Miami, Fla.	Stevens, H. R. (1 IM)	Hartsville
Smith, H. M. (1 For)	Jackson	Stevens, M. S. (1 Pre-Med)*	Mt. Holly
Smith, J. A. (1 Ed)	Saluda	Stevenson, B. M. (1 A&S)*	Anderson
Smith, John B. (3 CE)	Athens, Ga.	Stevenson, D. R. (1 EE)	Denmark
Smith, Joseph B. (1 ME)*	Edgefield	Stevenson, J. E. (1 ME)	Blackstock
Smith, J. D. (3 ME)	Jackson	Stevenson, John H. (1 ME)	Orangeburg
Smith, J. E. (4 CE)	Florence	Stevenson, J. Hunter (4 ME)	Warwick, R. I.
Smith, J. E. H. (2 Chem)	Toccoa, Ga.	Stevenson, R. F. (1 Tmt)	Greenwood
Smith, Johnny E. (1 AgEd)	Smoaks	Stevenson, R. W. (4 EE)	Townville
Smith, Joseph E. (2 IM)	Ridgeland	Stewart, D. W. (1 CE)*	Clinton
Smith, J. M. (3 TMg)	Spartanburg	Stewart, H. E. (3 A&S)	Greenville
Smith, John M. (4 Pre-Med)	Saluda	Stewart, R. C. (1 CE)*	Pickens
Smith, John R. (2 ME)	Hendersonville, N. C.	Stewart, R. J. (G ME)**	Clemson
Smith, Junius R. (4 IM)	Greenville	Stewart, T. C. (3 Pre-Med)	Clinton
Smith, J. S. (1 ME)*	Decatur, Ga.	Still, D. D. (1 A)*	Blackville
Smith, J. T. (PG)	Easley	Stillwell, H. L. (1 EE)	Anderson
Smith, K. E. (2 EE)	Woodruff	Stoddard, C. G. (1 ME)	Fountain Inn
Smith, K. W. (2 Pre-Med)	Walhalla	Stoddard, R. M. (1 IM)	Pelzer
Smith, Lee C. (G Math)**.*	Florence	Stogner, L. B. (4 EE)	Hartsville
Smith, L. Carroll (1 IE)	York	Stokes, C. D. (2 IM)	Greer
Smith, R. D. (2 IM)	Bishopville	Stokes, H. A. (4 ME)	Taylors
Smith, R. E. (1 EE)*	Greenville	Stokes, M. L. (1 A&S)*	Greer
Smith, R. Harvin (4 EE)	Dillsboro, N. C.	Stokes, T. C. (2 ME)	Greer
Smith, R. Henry (2 ME)	Newberry	Stone, C. R. (1 IM)	Greenville
Smith, R. L. (1 Tmt)*	Greer	Stone, F. R. (2 TMg)	Buffalo
Smith, V. H. (2 A&S)	Pendleton	Stone, H. B. (2 EE)	Williamston
Smith, W. E. (1 Pre-Med)*	Barnwell	Stone, J. D. (3 AgEd)	Johnsonville
Smith, William E. (1 ChE)*	Union	Stone, W. J. (4 EE)	Anderson
Smith, W. T. (2 ME)	Clinton	Stork, W. S. (1 For)*	Charlotte, N. C.
Smoak, C. G. (1 ME)*	Greenville	Stoudenmire, A. G. (1 EE)	Pendleton
Smoke, W. G. (3 ChE)	St. Matthews	Stover, L. A. (1 ME)*	Greenville
Snavely, J. T. (1 Pre-Med)*	Anderson	Stow, E. J. (1 ME)*	Gainesville, Ga.
Snead, S. A. (1 Arch)*	Easley	Stowe, H. R. (1 Ed)	Gastonia, N. C.
Snelgrove, L. M. (1 AgEd)	Leesville	Strawn, D. J. (3 A&S)	Rock Hill
Snipes, C. E. (1 Arch)*	Rock Hill	Stribling, J. L. (1 A&S)*	Clemson
Snipes, L. E. (1 AgEc)	Marion	Strickland, C. M. (2 IM)	Anderson
Snow, D. C. (4 A&S)	Greer	Strickland, J. F. (1 AgEd)	Scranton
Snow, G. H. (G Ed)	Clemson	Strickland, R. S. (1 EE)*	Greenwood
Snowden, J. G. (3 AgEd)	Lake City	Strickland, S. G. (2 CE)	Anderson
Snyder, R. D. (G ME)**	Lancaster, Pa.	Strickler, J. H. (4 ChE)	Folly Beach
Snyder, R. P. (2 InEd)	Baltimore, Md.	Stroman, T. H. (1 CE)	Florence
Sok, B. A. (1 Chem)*	Chicago, Ill.	Strong, J. H. (1 For)*	Sumter
Sorensen, G. W. (2 EE)	Columbia	Stroud, E. L. (4 Pre-Med)	Woodruff
Spangenberg, R. B. (Unc)**	Clemson	Stuart, B. W. (4 InEd)	Hamer
Spangler, P. E. (1 AgEn)*	Wyncote, Pa.	Stubbs, P. G. (Unc)**	Clemson
Spearman, D. J. (1 CE)	Piedmont	Stubbs, S. W. (4 Arch)	Sumter
Spearman, E. H. (1 ME)	Central	Stuckey, G. L. (1 Ed)*	Columbia
Spearman, M. W. (1 For)	Royston, Ga.	Styles, C. D. (1 ME)	Travelers Rest
Spearman, R. J. (4 EE)	Central	Suber, C. (3 TMg)	Anderson
Spearman, R. R. (1 CE)*	Easley	Suber, J. C. (1 For)	Jackson
Spencer, C. S. (4 A&S)	Charleston	Suddeth, J. A. (2 ME)	Greenville
Spitzer, T. F. (1 ME)*	Barnwell	Suggs, R. A. (1 A)	Gastonia, N. C.
Sports, W. L. (1 IM)*	North Charleston	Suggs, R. W. (3 Agron)	Loris
Spratt, S. N. (1 IM)*	Greenville	Sullivan, P. B. (1 A&S)	New Orleans, La.
Sprawls, P. (G NSc)**	Williston	Sumerel, W. M. (2 EE)	Laurens
Springfield, M. E. (1 IM)	Greenville	Sumner, C. S. (2 IM)	Union
Sprouse, D. W. (2 ME)	Slater	Sumner, D. T. (1 CE)*	Union
Stafford, G. L. (1 EE)*	Ware Shoals	Sumner, I. Leonard (3 A&S)	Clemson
Staley, W. L. (4 CE)	Bucksport	Sumner, I. Livingston (2 EE)	Fort Mill
		Sutherland, E. S. (1 ME)	Newberry
		Sutherland, M. H. (G AgEc)**	Clemson

Name and Course	Address	Name and Course	Address
Sutherland, T. F. (3 A&S) _____	Abbeville	Timmerman, J. H. (1 Pre-Med)* _____	Hartsville
Sutton, M. R. (3 TMg) _____	Lancaster	Tindall, S. E. (1 IM) _____	Spartanburg
Swain, H. L. (1 EE)* _____	Catechee	Tinsley, C. B. (2 CE) _____	Easley
Swart, J. B. (2 TMT) _____	Caracas, Venezuela	Tinsley, R. K. (1 CrEn)* _____	Easley
Swartzfager, J. G. (3 Dairy) _____	Columbia	Tipper, L. E. (1 EE) _____	North Charleston
Sweat, J. R. (1 ME)* _____	Savannah, Ga.	Toal, C. E. (4 Poul) _____	Columbia
Sweat, L. W. (2 CE) _____	Ladson	Tobias, J. C. (1 IM) _____	Columbia
Sweeny, L. R. (3 Phys) _____	Cincinnati, Ohio	Todd, C. E. (1 EE)* _____	Laurinburg, N. C.
Swofford, C. P. (1 IM) _____	Laurens	Todd, E. L. (3 CE) _____	Greenville
Swofford, R. P. (2 IM) _____	Laurens	Todd, G. C. (Unc)**.* _____	Aiken
Sykes, J. H. (3 IM) _____	Morristown, Tenn.	Todd, G. J. (1 EE)* _____	Conway
Syracuse, H. J. (2 IM) _____	Greenville	Todd, J. A. (4 CE) _____	Aiken
Talbert, K. A. (1 ChE)* _____	Spartanburg	Todd, J. D. (1 TE) _____	Spartanburg
Talley, H. R. (4 IM) _____	Penrose, N. C.	Todor, P. C. (3 CE) _____	Parma, Ohio
Tanksley, W. T. (1 IE)* _____	Seneca	Toledano, F. E. (1 IM) _____	Greenville
Tanner, C. M. (1 TS)* _____	Warwick, R. I.	Tolin, W. T. (1 IM)* _____	Maysville, N. C.
Tant, L. R. (1 EE) _____	Seneca	Tolley, H. W. (2 IM) _____	Asheville, N. C.
Tapp, G. G. (1 Ent)* _____	Greer	Tollison, H. E. (3 IM) _____	Greenville
Tarrant, W. E. (2 A&S)* _____	Clemson	Tolson, B. A. (2 ME) _____	Timmonsville
Tavarone, L. R. (1 InEd) _____	Jersey City, N. J.	Tomblin, R. L. (1 ME) _____	Clemson
Taylor, B. J. (1 ME)* _____	Greenville	Tomlinson, J. A. (2 EE) _____	Lynchburg
Taylor, E. M. (1 IM) _____	Kershaw	Tomlinson, J. C. (3 EE) _____	Florence
Taylor, J. A. (3 TMg) _____	Greenville	Tomlinson, P. (1 Phys) _____	Bamberg
Taylor, J. P. (4 Pre-Med) _____	Batesville	Toncray, G. W. (2 ME) _____	Kingsport, Tenn.
Taylor, J. R. (1 TS)* _____	Catechee	Toney, F. H. (3 Chem) _____	Greenwood
Taylor, L. T. (1 Chem)* _____	Taylor	Touchstone, R. W. (2 Arch) _____	Anderson
Taylor, T. K. (2 EE) _____	Laurens	Townsend, F. (1 TC)* _____	Aiken
Taylor, W. J. (1 ME)* _____	Rock Hill	Townsend, F. D. (1 ME) _____	Greenville
Teague, B. W. (1 IM) _____	Franklin, N. C.	Townsend, J. L. (2 Arch) _____	Orangeburg
Teague, R. M. (1 EE)* _____	Laurens	Townsend, J. N. (4 ME) _____	Rock Hill
Team, J. W. (2 Arch) _____	Lugoff	Townsend, R. T. (1 EE)* _____	Laurens
Tegen, C. R. (G)**.* _____	Central	Townsend, S. C. (1 A&S)* _____	Greenville
Templeton, F. G. (2 CE) _____	Charlotte, N. C.	Townsend, T. P. (3 TMg) _____	Laurens
Templeton, R. E. (1 For)* _____	Ninety Six	Trammel, J. A. (G Dairy)** _____	Woodruff
Templeton, R. S. (2 TMT) _____	Owings	Trammell, J. D. (1 EE)* _____	Greenville
Templeton, T. W. (2 EE) _____	Greenwood	Traylor, P. W. (3 For) _____	Blackstock
Terry, J. D. (1 CE)* _____	Anderson	Traylor, R. A. (1 ME)* _____	Jacksonville, Fla.
Terry, J. P. (4 IM)** _____	Hartsville	Treadway, R. M. (3 IE) _____	Columbia
Tharpe, J. B. (1 ME)* _____	Lancaster	Tribble, R. L. (1 CE) _____	Westminster
Thayer, C. R. (4 ME) _____	Adamstown, Md.	Trimmier, D. C. (3 A&S) _____	Bedford, Pa.
Thigpen, J. E. (3 Dairy) _____	Lake City	Trimmier, J. R. (G Phys)** _____	Bedford, Pa.
Thode, C. D. (Unc)** _____	Walhalla	Tripp, B. B. (1 AH)* _____	Greenwood
Thomas, A. W. (2 EE) _____	Johnston	Tripp, C. H. (G Chem)** _____	Piedmont
Thomas, D. F. (1 EE)* _____	Moncks Corner	Tripp, W. O. (3 TMg) _____	Greenville
Thomas, F. B. (1 AgEc)* _____	Cottageville	Trively, T. C. (3 A&S) _____	Clemson
Thomas, H. J. (Unc)**.* _____	Central	Trotman, R. (3 ApMath) _____	Syracuse, N. Y.
Thomas, J. D. (2 ME) _____	Ulmers	Trotter, L. N. (Unc)** _____	Anderson
Thomas, J. H. (1 IM)* _____	Hampton	Truitt, W. R. (2 EE) _____	Spartanburg
Thomas, J. M. (2 CrEn) _____	Greenville	Truluck, H. R. (4 AgEn) _____	Olanta
Thomas, M. H. (G PlPath) _____	Mullins	Trupp, H. F. (1 IM) _____	Brooklyn, N. Y.
Thomas, R. M. (1 TS) _____	Chesterfield	Tseng, H. D. (Unc)* _____	Taipei, Formosa
Thomas, W. L. (1 Ed) _____	Layton, Pa.	Tucker, J. D. (4 TMg) _____	Inman
Thomason, E. H. (1 Agron) _____	Olanta	Tucker, R. B. (2 IM) _____	Lake City
Thomason, F. W. (1 EE)* _____	Startex	Tucker, R. F. (1 IM)* _____	Cornelia, Ga.
Thomason, G. M. (2 IE) _____	Laurens	Tull, E. W. (G Ed)* _____	Clemson
Thomason, M. C. (1 IE)* _____	Laurens	Tumblin, J. R. (4 ME) _____	Greenville
Thomasson, J. C. (1 IE)* _____	Greenville	Tumblin, W. E. (2 IM) _____	Honea Path
Thompson, A. J. (1 A&S)* _____	Clemson	Tunstall, J. H. (2 CE)* _____	Easley
Thompson, B. D. (4 AgEn) _____	Gaffney	Tupper, G. L. (4 Dairy) _____	Summerville
Thompson, D. H. (1 IM) _____	Anderson	Turnbull, T. P. (3 ChE) _____	Mullington, N. J.
Thompson, E. A. (2 CE) _____	Reevesville	Turner, C. J. (G AgEn)** _____	Marietta, Ga.
Thompson, G. G. (1 E) _____	Anderson	Turner, F. H. (2 EE) _____	Columbia
Thompson, J. D. (2 Pre-Med) _____	Manning	Turner, H. L. (1 Agron)* _____	Mayesville
Thompson, J. H. (2 Pre-Med) _____	Columbia	Turner, J. D. (4 TC) _____	Inman
Thompson, J. N. (1 ChE) _____	Chester	Turner, M. (1 TS)* _____	Nesmith
Thompson, J. P. (4 ME) _____	Davidson, N. C.	Turner, M. J. (1 A)* _____	Liberty
Thompson, R. E. (3 AgEn) _____	Abbeville	Turner, M. O. (1 IM) _____	Marion
Thompson, S. J. (1 Pre-Med)* _____	Timmonsville	Turner, R. M. (2 A&S) _____	Greenville
Thompson, W. B. (2 Pre-Med) _____	Clemson	Turner, W. D. (1 EE)* _____	Pickens
Thompson, W. C. (3 IM) _____	Lancaster	Turner, W. L. (4 EE) _____	Clemson
Thornton, N. G. (1 A&S)* _____	Seneca	Tuten, W. A. (1 Pre-Med)* _____	Columbia
Thornton, S. W. (1 IM)* _____	Union	Tutterow, T. L. (1 CE)* _____	Greenville
Thorsland, O. A. (1 Ed)* _____	Teaneck, N. J.	Tuttle, W. A. (G Phys)**.* _____	Greensboro, N. C.
Threatt, J. W. (1 ChE)* _____	Lancaster	Tuttle, W. C. (1 IM) _____	Lane
Tibbs, J. A. (1 ME)* _____	Great Falls	Twiggs, H. C. (G Chem)** _____	Pendleton
Tiller, H. D. (4 Phys) _____	Anderson	Tyler, W. S. (4 CE) _____	Columbia
Timbes, L. C. (1 Arch)* _____	Conway	Tyner, R. L. (1 E)* _____	Greenville
Timmerman, J. A. (G Zool)** _____	Pelzer		

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Uhler, W. B. (2 TMt) _____	Spartanburg	Washington, R. E. (3 Arch) _____	Clemson
Uhlig, W. J. (2 Ed) _____	Murrysville, Pa.	Washington, T. E. (3 EE) _____	Honea Path
Uldrick, L. B. (1 CrEn) _____	Greenville	Wasson, G. E. (1 IM) _____	Laurens
Uldrick, T. S. (2 ME) _____	Donalds	Waters, D. B. (2 CE) _____	Ellenboro, N. C.
Underwood, J. A. (3 EE) _____	Greenwood	Waters, J. A. (2 Ed)* _____	Ellenboro, N. C.
Usry, G. H. (2 EE) _____	Waycross, Ga.	Watkins, D. H. (4 Pre-Med) _____	Rock Hill
Vaccaro, J. E. (1 IM) _____	New York, N. Y.	Watkins, J. F. (1 IM)* _____	Johnson City, Tenn.
Vaigneur, H. O. (G AgEn)** _____	Clemson	Watson, D. B. (1 IM)* _____	Chapin
Valdes, S. G. (1 Arch)* _____	Caracas, Venezuela	Watson, D. K. (3 ME) _____	Central
Valentine, B. M. (1 Pre-Vet)* _____	Jackson	Watson, G. L. (2 IM) _____	Laurens
Vanadore, W. J. (2 IE) _____	Easley	Watson, H. E. (3 ME) _____	Johnston
Vardell, H. H. (2 Ent) _____	Summerville	Watson, J. V. (1 ME) _____	Greenville
Varn, D. W. (2 EE) _____	Kingstree	Watson, L. M. (1 Arch) _____	Sumter
Varnier, M. V. (1 TS) _____	Greenville	Watson, R. G. (1 TS)* _____	Taylors
Vaughan, B. A. (1 ME) _____	Union	Watson, R. J. (2 EE) _____	Greenville
Vaughan, T. H. (1 ChE)* _____	Charleston	Watson, S. J. (2 A&S) _____	Florence
Vaughn, J. H. (2 EE) _____	Gaffney	Watson, W. H. (1 IM)* _____	Rock Hill
Vaughn, J. R. (2 Pre-Med) _____	Fountain Inn	Watson, W. S. (2 IM) _____	Conway
Venning, H. A. (1 CE)* _____	Summerton	Watson, W. T. (1 AgEn)* _____	Simpsonville
Verdery, R. F. (1 ME) _____	Baltimore, Md.	Watson, W. V. (4 ME) _____	Greenwood
Verdin, D. B. (2 Pre-Vet) _____	Lyman	Watt, C. K. (4 EE) _____	Pelzer
Veronee, J. C. (1 EE)* _____	Charleston Heights	Watt, J. R. (3 EE) _____	Pickens
Vickers, A. M. (3 IE) _____	Durham, N. C.	Way, J. R. (1 TMt) _____	Walterboro
Vines, J. S. (3 AH) _____	Greenwood	Weaver, J. T. (1 ChE)* _____	Greenville
Vinson, D. J. (1 TMt)* _____	Chester	Weaver, M. D. (3 Chem) _____	Greenwood
Wagener, E. H. (1 Chem)* _____	Clemson	Weaver, R. D. (1 ChE)* _____	Summerville
Wagers, P. B. (1 Arch)* _____	St. George	Webb, A. R. (Unc)** _____	Anderson
Wagner, C. W. (1 IM) _____	Alexandria, Va.	Webb, B. K. (G AgEn)** _____	Cross Anchor
Wagner, L. M. (2 Ed) _____	Spencer, N. C.	Webb, E. A. (1 Arch) _____	Myrtle Beach
Waite, D. B. (2 A&S) _____	Clemson	Webb, J. A. (1 EE)* _____	Charlotte, N. C.
Waldrep, D. S. (1 IE) _____	Cedartown, Ga.	Webb, J. E. (1 Ed) _____	Pittsburgh, Pa.
Waldrep, G. C. (1 ME) _____	Greenville	Webb, M. D. (2 ChE) _____	Nashville, Tenn.
Waldrep, J. G. (Unc)**-* _____	Anderson	Webb, T. B. (2 CrEn) _____	Bishopville
Waldrop, J. P. (1 E)* _____	Greenville	Webb, T. E. (1 AH)* _____	Saluda
Waldrop, T. E. (3 ME) _____	Lyman	Webb, W. A. (2 Pre-Med) _____	Jackson
Walker, D. E. (3 Agron) _____	Winston-Salem, N. C.	Webb, W. H. (1 A&S)* _____	Morrisville, Pa.
Walker, D. H. (1 AgEn) _____	Anderson	Webber, G. E. (1 TMt)* _____	Spartanburg
Walker, J. G. (2 IE) _____	Marion	Webber, J. T. (1 EE) _____	Spartanburg
Walker, J. H. (1 IM)** _____	Greenwood	Webster, G. W. (1 InEd) _____	Lake City
Walker, R. F. (2 CE) _____	Newport News, Va.	Weddle, H. E. (3 InEd) _____	North Charleston
Walker, R. J. (1 IM) _____	Washington, D. C.	Weeks, C. J. (2 ChE) _____	Florence
Walker, W. C. (3 Arch) _____	Graniteville	Weeks, H. O. (2 ME) _____	Aiken
Walkup, J. B. (4 ME) _____	Florence	Weeks, T. L. (1 Pre-Med)* _____	Hickory Grove
Wall, D. J. (1 EE) _____	McCormick	Weeks, W. J. (4 Agron) _____	Florence
Wall, M. W. (G AgEc)** _____	Chesnee	Weeks, W. U. (2 For)* _____	Elloree
Wall, R. E. (1 TS)* _____	Summerville	Weinberg, B. A. (1 Pre-Vet)* _____	Sumter
Wallace, C. E. (3 AgEn) _____	Gray Court	Weir, J. M. (2 IE) _____	Honea Path
Wallace, D. A. (1 CrEn) _____	Spartanburg	Weisner, R. R. (3 ME) _____	Lancaster
Wallace, James B. (2 Ent) _____	Cades	Welborn, J. C. (1 CrEn)* _____	Easley
Wallace, Joseph B. (1 ME)* _____	Clover	Welborn, J. H. (1 ME)* _____	Pelzer
Wallace, J. M. (1 ME)* _____	York	Welborn, N. P. (4 Pre-Med) _____	Liberty
Wallace, M. G. (2 TMg) _____	Laurens	Welborn, T. E. (3 IM)** _____	Easley
Waller, S. T. (4 ME) _____	Redondo Beach, Calif.	Welch, J. Z. (1 TS)* _____	Lexington
Wallen, G. G. (1 A&S)* _____	Wadmalaw Island	Welch, T. C. (2 ME) _____	Charleston
Wallis, J. E. (2 CE) _____	Pickens	Wellmaker, J. A. (1 TS) _____	Ninety Six
Walpole, H. B. (1 For) _____	John's Island	Wells, J. B. (1 EE) _____	Darlington
Walsh, M. E. (1 IM) _____	Hendersonville, N. C.	Wells, J. D. (3 ME) _____	Charlotte, N. C.
Walters, L. D. (3 ChE) _____	Lancaster	Wells, M. E. (2 ChE) _____	Columbia
Walters, L. R. (2 EE) _____	Rock Hill	Wells, R. D. (1 ME) _____	Greenville
Walton, W. T. (1 ChE)* _____	Batesburg	Wernitz, E. J. (1 ME)* _____	Albany, Ga.
Wanlass, R. C. (4 CE) _____	Hendersonville, N. C.	Werts, F. M. (2 AH) _____	Ninety Six
Wannamaker, B. B. (1 ChE) _____	Orangeburg	Wessinger, J. B. (1 ME) _____	Columbia
Warbler, W. M. (2 CrEn) _____	Kohler, Wis.	Wessinger, K. D. (2 ME) _____	Lexington
Ward, H. P. (2 Phys) _____	Georgetown	West, D. M. (2 IM) _____	Union
Ward, J. C. (1 ME)* _____	Lugoff	West, E. C. (1 Pre-Med) _____	Kershaw
Ward, J. L. (1 E)* _____	Kingstree	West, J. A. (1 TMt) _____	Moncks Corner
Ward, L. D. (2 CE) _____	Clemson	West, R. D. (1 Arch) _____	Gramling
Ward, R. H. (1 ME)* _____	Georgetown	West, W. B. (4 EE) _____	Greenville
Warner, J. R. (3 EE) _____	Charleston Heights	Westbury, C. E. (2 Arch) _____	Murrells Inlet
Warner, T. E. (2 CrEn) _____	Rock Hill	Westbury, R. A. (3 Arch) _____	Charleston
Warren, F. H. (1 TS) _____	Lancaster	Westendorff, W. G. (1 Pre-Vet)* _____	North Charleston
Warren, I. A. (2 ME) _____	Gastonia, N. C.	Westerlund, E. R. (4 IM) _____	Rock Hill
Warren, W. L. (2 IM) _____	Pittsburgh, Pa.	Weymon, J. K. (2 EE) _____	Chatsworth, Ga.
Wash, C. M. (1 AH)* _____	Edgefield	Whaley, B. F. (1 EE)* _____	Columbia
Washington, J. R. (1 Arch)* _____	Clemson	Whaley, W. H. (3 Ed) _____	Wadmalaw Island
		Wheeler, T. C. (1 EE)* _____	Walhalla
		Welchel, D. C. (4 Ed) _____	Gaffney
		Welchel, H. W. (2 ME) _____	Gaffney

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Whetsell, A. H. (1 ChE)*	Bowman	Wilson, C. H. (3 ChE)	Sumter
Whiston, G. E. (1 IM)	Charleston	Wilson, D. L. (4 AgEc)	Cades
Whitaker, J. M. (3 CrEn)	Columbia	Wilson, D. W. (2 EE)*	Kings Mountain, N. C.
Whitaker, M. T. (1 EE)*	Greenville	Wilson, E. K. (3 AgEd)	Cades
White, H. M. (G Chem)**	Clemson	Wilson, F. R. (1 IM)	Spartanburg
White, H. T. (3 Pre-Med)	Greenwood	Wilson, G. A. (1 CE)*	Greenville
White, Joe E. (2 AgEd)	Clover	Wilson, H. E. (1 AH)	Lobeco
White, John E. (1 IM)*	Greenwood	Wilson, J. D. (2 EE)	Fort Mill
White, J. M. (2 ChE)	Timmons ville	Wilson, Joseph F. (1 EE)	Abbeville
White, J. R. (3 TE)	Clinton	Wilson, Judd F. (1 ME)	Anderson
White, J. T. (1 TS)	Anderson	Wilson, J. H. (1 ME)*	Icard, N. C.
White, M. V. (4 Arch)	Anderson	Wilson, J. P. (3 Arch)	Wickford, R. I.
White, M. W. (3 Dairy)	Anderson	Wilson, L. G. (4 TMg)	Wellford
White, P. K. (2 IM)	Dillon	Wilson, L. M. (2 EE)	Clinton
White, T. A. (2 Pre-Med)	Clemson	Wilson, L. R. (2 IM)	Greenville
White, W. E. (1 ME)*	Simpsonville	Wilson, R. L. (2 ChE)	Aiken
White, W. H. (1 IM)*	Seneca	Wilson, W. G. (1 EE)	Greenville
White, W. J. (1 IM)*	Pendleton	Wilson, W. J. (2 AgEd)	Calhoun Falls
White, W. T. (1 E)*	Conway	Wilson, W. S. (4 ME)	Greer
Whiteaker, J. A. (3 EE)	Rock Hill	Wilson, W. V. (4 IM)	Cades
Whitener, R. S. (2 CE)	Union	Winchester, J. D. (1 TMg)	Pickens
Whitesides, C. P. (2 AH)	Sharon	Winchester, J. W. (1 Arch)*	Easley
Whitfield, D. P. (1 Chem)*	Townville	Winesett, J. D. (2 Arch)	Marion
Whitfield, F. A. (2 Ed)	Townville	Wingo, J. C. (2 IE)	Union
Whitlaw, N. O. (3 TMg)	Latta	Winn, E. D. (2 Tmt)	Charleston Heights
Whitlow, H. D. (3 IE)	Lavonia, Ga.	Winn, W. G. (1 ChE)	Rock Hill
Whitlow, J. A. (3 EE)	Royston, Ga.	Winning, J. R. (4 Pre-Med)	Greenville
Whitman, B. D. (2 EE)	Easley	Wipf, A. S. (G Chem)**	Greenville
Whitten, W. A. (1 CE)	Anderson	Wise, D. J. (1 ME)	Marion
Whitten, W. C. (PG)**	Clemson	Wise, G. W. (1 Agron)*	Bakersfield, Calif.
Whitworth, W. A. (1 For)*	West Columbia	Wise, J. F. (G AH)**	Clemson
Wier, J. B. (2 IM)	Thomson, Ga.	Wise, J. W. (1 CE)*	Pamplico
Wiggins, E. C. (4 Arch)	Garnett	Witherspoon, B. (3 Chem)	Westminster
Wiggins, J. C. (1 CE)	Garnett	Witherspoon, J. H. (3 IM)	Columbia
Wiggins, J. E. (G)**	Seneca	Witt, T. R. (1 For)	North
Wiggins, R. L. (1 InEd)	Greenville	Wolcken, F. W. (2 Arch)	Havertown, Pa.
Wigington, J. T. (3 AgEn)	Piedmont	Wood, A. P. (1 Arch)	Florence
Wild, O. F. (2 Ed)	Charleston	Wood, B. R. (1 EE)*	Greenville
Wilfong, G. R. (2 IE)	Hickory, N. C.	Wood, F. M. (4 A&S)	Westminster
Wilkerson, T. E. (1 CE)*	Troy, Ala.	Wood, H. A. (2 Pre-Med)	Cheraw
Wilkerson, W. M. (1 Pre-Vet)*	Greenwood	Wood, Jimmy C. (2 Phys)	Spartanburg
Wilkes, G. C. (PG Arch)	Clinton	Wood, Joseph C. (3 ME)	Dillon
Wilkes, R. L. (2 EE)	Ninety Six	Wood, J. G. (1 Pre-Med)*	Florence
Wilkins, E. B. (1 ME)	Columbia	Wood, J. H. (1 AgEn)*	Anderson
Wilkins, J. C. (2 AgEn)	Charleston	Wood, K. J. (3 ME)	Greenville
Willcox, J. H. (1 ChE)*	Darlington	Wood, P. H. (4 ME)	Spartanburg
Williamson, P. S. (G AgEc)**	Clemson	Wood, W. C. (3 ME)	Edgefield
Williams, A. L. (1 EE)	Lancaster	Woodhurst, C. L. (4 TE)	Williamston
Williams, C. C. (1 E)*	Rock Hill	Woodle, A. G. (4 EE)	Greenwood
Williams, D. P. (1 Arch)	Spartanburg	Wooten, T. W. (1 IM)	Columbia
Williams, F. D. (1 Arch)*	Charlotte, N. C.	Workman, J. P. (1 CrEn)*	Woodruff
Williams, G. B. (1 ME)*	Sumter	Workman, N. J. (2 ChE)	Chattanooga, Tenn.
Williams, H. E. (2 ME)	Central	Wortman, R. L. (2 CE)*	Shelby, N. C.
Williams, J. A. (3 IE)	Asheville, N. C.	Wrenn, J. E. (1 AgEn)*	Fountain Inn
Williams, J. L. (4 AgEc)	Abbeville	Wright, D. I. (2 EE)	Camden
Williams, J. R. (2 EE)	Kershaw	Wright, F. S. (4 AgEn)	Grover, N. C.
Williams, L. (4 AH)	Marion	Wright, H. L. (1 ME)	Greenville
Williams, L. A. (3 EE)	Summerton	Wright, J. P. (3 CrEn)	Greenville
Williams, M. A. (4 Arch)	Swansea	Wright, T. D. (3 CE)	North Charleston
Williams, R. F. (2 Ed)	Sumter	Wright, T. T. (1 EE)	Buffalo
Williams, R. O. (4 AgEc)	Seneca	Wyatt, B. F. (3 AgEd)	Williamston
Williams, R. R. (2 EE)	Rock Hill	Wyche, D. B. (G Chem)	Fletcher, N. C.
Williams, S. A. (1 ChE)*	Seneca	Wylie, A. (1 Tmt)	Marion, N. C.
Williams, S. S. (Unc)*	Clinton	Wyndham, F. C. (1 EE)*	Moncks Corner
Williams, T. L. (1 EE)*	Camden	Wysong, W. H. (3 Arch)	Florence
Williamson, J. A. (G Chem)	North Charleston	Yandle, G. R. (4 ChE)	Pageland
Williamson, R. E. (4 AgEn)	York	Yarboro, J. A. (2 ME)	Douglas, Ga.
Williford, P. D. (1 EE)*	Union	Yarborough, B. J. (2 ME)	Gastonia, N. C.
Willimon, E. P. (1 ChE)*	Clemson	Yarborough, D. A. (4 EE)	Clinton
Willingham, H. M. (4 TMg)	Joanna	Yarborough, J. H. (1 A&S)*	Chattanooga, Tenn.
Willingham, R. (1 IE)	Marietta, Ga.	Yarborough, T. C. (2 ME)	Timmons ville
Willingham, T. D. (1 ME)	York	Yates, D. N. (4 CrEn)	Alexandria, Va.
Willis, C. E. (1 Ed)	Chesterfield	Yates, H. W. (1 A&S)	Liberty
Willis, J. C. (1 For)	Chesterfield	Yates, R. V. (1 Phys)*	Sumter
Willis, K. M. (1 CE)	Charleston Heights	Yeager, T. J. (1 ME)*	Spartanburg
Willis, R. M. (1 EE)*	Edgmoor	Yeary, R. C. (2 IM)	Nicholasville, Ky.
Wilson, C. F. (3 CrEn)	Anderson	Yike, D. R. (2 ME)*	Charlotte, N. C.

<i>Name and Course</i>	<i>Address</i>	<i>Name and Course</i>	<i>Address</i>
Yike, R. M. (G)**	Clemson	Young, W. H. (2 TMt)	Sumter
Yockel, V. M. (2 IM)	Jersey City, N. J.	Young, W. L. (1 CE)	Yonges Island
Yon, D. R. (4 AgEn)	Anderson	Youngblood, J. (2 A&S)	Columbia
Yon, R. C. (2 IM)	Loris	Youngblood, J. R. (2 IE)	Easley
Yonce, C. E. (2 Ent)	Ridge Spring	Younginer, H. L. (1 EE)*	Florence
Yonce, J. E. (4 AH)	Trenton	Zager, E. (2 EE)	McKeesport, Pa.
York, F. H. (3 IE)	Allendale	Zahler, E. C. (3 Hort)	Yemassee
York, J. M. (1 Chem)*	Allendale	Zalewski, E. (3 ME)	Carteret, N. J.
Young, D. L. (1 E)*	Greenville	Zimmerman, J. C. (2 ME)	Cameron
Young, D. M. (2 ME)	Asheville, N. C.	Zink, E. M. (1 AgEn)	Lexington, Ky.
Young, J. H. (4 EE)	Brunson	Zivari, F. (4 Arch)	Teheran, Iran
Young, J. P. (1 Pre-Med)*	Charleston	Zoretich, F. N. (2 Agron)	Monessen, Pa.
Young, M. L. (1 Arch)*	Hemingway		

**ENROLLMENT BY COUNTIES AND STATES
FIRST SEMESTER, 1958-1959**

<i>County</i>	<i>Total</i>	<i>State or Country</i>	<i>Total</i>
Abbeville	27	Alabama	13
Aiken	98	Argentina	1
Allendale	21	Arizona	1
Anderson	223	Brazil	4
Bamberg	23	British E. Africa	1
Barnwell	25	California	2
Beaufort	22	Canada	1
Berkeley	20	Colorado	1
Calhoun	10	Connecticut	2
Charleston	180	Cuba	11
Cherokee	46	Delaware	4
Chester	47	District of Columbia	8
Chesterfield	28	Ecuador	1
Clarendon	19	El Salvador	1
Colleton	19	Florida	30
Darlington	64	Formosa	1
Dillon	44	Georgia	131
Dorchester	26	Guatemala	1
Edgefield	19	Illinois	10
Fairfield	11	India	3
Florence	96	Indiana	1
Georgetown	35	Iowa	2
Greenville	366	Iran	8
Greenwood	98	Iraq	1
Hampton	21	Kentucky	5
Horry	74	Korea	5
Jasper	7	Lebanon	2
Kershaw	39	Louisiana	2
Lancaster	53	Maine	1
Laurens	83	Maryland	17
Lee	13	Massachusetts	5
Lexington	41	Michigan	2
Marion	38	Minnesota	3
Marlboro	21	Mississippi	1
McCormick	17	Missouri	2
Newberry	30	Montana	2
Oconee	153	New Jersey	32
Orangeburg	60	New Mexico	1
Pickens	231	New York	41
Richland	105	North Carolina	245
Saluda	27	Ohio	3
Spartanburg	186	Oklahoma	1
Sumter	73	Pakistan	3
Union	45	Pennsylvania	54
Williamsburg	35	Puerto Rico	1
York	139	Rhode Island	5
		South Carolina	3,058*
South Carolina Total	3,058*	South Dakota	1
		Syria	2
		Tennessee	22
		Texas	3
		Venezuela	4
		Virginia	24
		West Virginia	5
		Wisconsin	2
		Grand Total	3,793*

*Includes 5 part-time graduate students enrolled at Branch Stations.

NUMBER OF STUDENTS MAJORING IN EACH CURRICULUM, FIRST SEMESTER, 1958-1959

Classification	Enrollment by Classes																													
	Agricultural Education	Agriculture	Forestry	Pre-Veterinary	Architectural Engineering	Architecture	Applied Mathematics	Arts and Sciences	Chemistry	Education	Industrial Education	Industrial Management	Physics	Pre-Medicine	Agricultural Engineering	Ceramic Engineering	Chemical Engineering	Civil Engineering	Electrical Engineering	Industrial Engineering	Mechanical Engineering	Textile Chemistry	Textile Engineering	Textile Management	Textile Manufacturing	Textile Science	Postgraduate	Graduate	Unclassified	
Senior	7	41	6	0	0	25	0	17	8	11	2	61	10	14	10	13	17	25	70	6	61	12	9	0	25	0	-----	-----	450	
Junior	12	37	14	2	0	33	3	23	13	8	2	54	4	17	16	30	29	29	94	22	77	5	11	1	20	0	-----	-----	556	
Sophomore	19	53	25	6	1	39	1	30	9	36	7	104	7	25	15	34	43	72	156	27	127	8	4	31	23	8	-----	-----	910	
Freshman	27	97	71	17	0	56	0	50	22	45	12	227	15	59	42	33	95	145	248	30	256	7	1	66	2	38	-----	-----	1,661	
Postgraduate	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	29
Graduate	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	149*
Unclassified	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	38
Total	65	228	116	25	1	153	4	120	52	100	23	446	36	115	83	110	184	271	568	85	521	32	25	98	70	46	29	149*	38	3,793*

*Includes 5 part-time graduate students enrolled at Branch Stations.

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