

AGRICULTURAL AND ENGINEERING
COLLEGE RECORD

SUMMER SCHOOL

OF THE

NORTH CAROLINA STATE COLLEGE
OF
AGRICULTURE AND ENGINEERING

JUNE 12 TO JULY 27
1917

FOR SCHOOL OFFICIALS
FOR TEACHERS
FOR CANDIDATES SEEKING
ADMISSION TO COLLEGE

Published bi-monthly by the College, and entered at the Postoffice at West Raleigh,
North Carolina, as second-class matter.

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1917

Registrar's Office

CALENDAR

June 12. Summer Session begins. Registration.

June 13. Class work begins.

June 25-30. Conference of Agricultural Teachers and Workers.

July 27. Summer Session ends.

NOTE.—The precise dates of examinations will be published at the beginning of the session.

A FEW SUGGESTIONS

Do not fail to register in time for the first classes. Work will be planned so as to begin and proceed promptly.

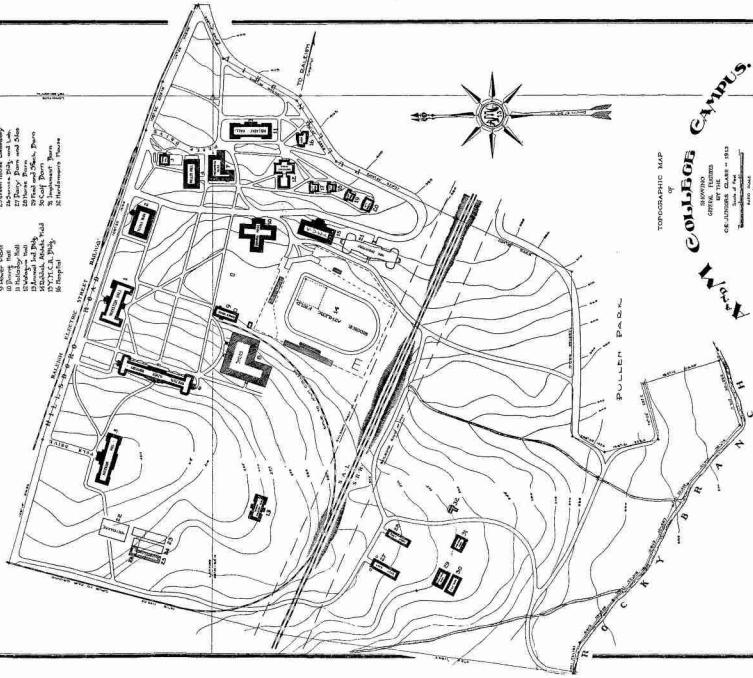
Do not attempt too much. Intellectual food in excess will conduce to intellectual indigestion. Too much exercise will make an athlete go stale.

Do not neglect the social side of the Summer Session life. It is desirable that all who attend should go away in better health and spirits than when they came.

Do not forget to ask early for dormitory rooms which may be desired.

KEY

1. Union Hall
2. North Building
3. South Building
4. De Haven Hall
5. Administration Building
6. Science Building
7. Agricultural Building
8. Shop
9. Dining Room
10. Student Union
11. Student Gymnasium
12. Student Store
13. Student Cafeteria
14. Student Library
15. Student Club
16. Student Union
17. Student Union and Cafeteria
18. Student Union
19. Student Union
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21. Student Union
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TOPOGRAPHIC MAP

OF

WAKE FOREST COLLEGE CAMPUS

PUBLISHED BY THE COLLEGE OF WAKE FOREST, WAKE FOREST, N. C. 1914

REVISED BY E. I. POOLE, C. E., 1917

PRINTED BY THE COLLEGE OF WAKE FOREST, WAKE FOREST, N. C.

SCALE: AS SHOWN

PROJECTION: UTM

UNIT: METERS

COORDINATE SYSTEM: UTM

PROJECTION: UTM

UNIT: METERS

COORDINATE SYSTEM: UTM

PROJECTION: UTM

UNIT: METERS

REVISED BY E. I. POOLE, C. E., 1917

OFFICERS OF ADMINISTRATION

W. C. RIDDICK.....	President of the College
W. A. WITHERS,	
Vice-President of the College and Director of the Summer School	
MISS CATHERINE ALBERTSON.....	Secretary
MISS MARY SHOTWELL.....	Manager Teachers' Bureau
HUBERT BENBURY HAYWOOD, JR., M.D.....	Physician
MRS. ELLA I. HARRIS.....	Hospital Matron
ARTHUR BUXTON HURLEY.....	Steward
MRS. CHARLOTTE M. WILLIAMSON.....	Librarian
MISS EUGENIA HERRING.....	Stenographer

The Council of the Summer School includes the President, the Director, and the following:

HON. T. W. BICKETT, Governor of North Carolina.
J. Y. JOYNER, State Superintendent of Public Instruction.
J. HENRY HIGHSMITH, Member of the State Board of Examiners.
D. F. GILES, Member of the State Board of Examiners.
B. W. KILGORE, Director of the Experiment Station and Extension Service.
T. E. BROWNE, State Supervisor of Secondary Agricultural Education.
F. M. HARPER, Superintendent of Raleigh Public Schools.
JOHN A. PARK, of the Raleigh Chamber of Commerce.

Requests for information and other communications concerning the Summer School should be addressed to

W. A. WITHERS, *Director*,
Rooms 216-217 Winston Hall, West Raleigh, N. C.

INSTITUTIONS REPRESENTED .

It may be of interest to note that members of the Summer School staff, though North Carolinians for the most part, represent schools and universities of all sections of the United States. It is expected that the staff as a whole will be able to bring to the summer work good things in the way of material or method from many quarters.

Members of the staff have studied in the following institutions:

UNIVERSITIES: Alabama, Central, Chicago, Columbia, Cornell, Georgia, Harvard, Johns Hopkins, Leland Stanford, Maryland, Missouri, Nebraska, North Carolina, Ohio, Tennessee, Virginia.

COLLEGES: Alabama Polytechnic Institute, New Hampshire State, North Carolina State, South Carolina Military Academy, Colorado, Davidson, Trinity, Wake Forest.

COLLEGES FOR WOMEN: Davenport, Elizabeth, Erskine, Louisburg, Mount Amena, Shorter, Simmons, St. Cecilia, St. Mary's, Tuscaloosa, Wellesley, Winthrop.

NORMAL COLLEGES: Alabama, Indiana, North Carolina, Peabody, South Dakota.

The members of the Summer Session faculty are in the permanent employment of the following:

The United States Bureau of Education.

The United States Department of Agriculture.

The North Carolina State Board of Health.

The North Carolina Agricultural Experiment Station.

The North Carolina Department of Agriculture.

The North Carolina Department of Education.

The North Carolina State Board of Examiners and Institute Conductors.

Johnston County, McDowell County, and Wake County Departments of Public Instruction.

The Public Schools of Asheville, Elizabeth City, Lumberton, Raleigh, Salisbury, Southport, Miami (Florida).

The State College of Agriculture and Engineering. The State School for the Blind. Elon College. Peace Institute. St. Mary's School. Simmons College. Trinity College. Wake Forest College.

FACULTY

ARCH. TURNER ALLEN

School Administration

Member of State Board of Examiners and Institute Conductors.

Ph. B., University of North Carolina, 1897; teacher in Statesville Public Schools, 1897-1904; teacher in Washington Public Schools, 1904-1905; teacher in Dilworth Public Schools, 1905-1907; Superintendent of Schools in Graham, 1907-1910; Superintendent of Schools in Salisbury, 1910—; President City Superintendents' Association, 1914; student Columbia University in the summers of 1910-1911; President North Carolina Teachers' Assembly, 1916-1917.

THOMAS CICERO AMICK

Algebra and Geometry

Professor of Mathematics, Elon College.

Graduate of Peabody College, 1891; teacher at Liberty Academy, N. C.; Ingram Institute, Va., 1892-1896; Liberty Normal College, N. C.; Western Maryland College; Elon College, 1909; student at University of North Carolina Summer School; State Normal College, Alabama; University of Chicago; University of Virginia; Ph. D., Central University.

GLADYS H. BECKWITH

American and English History

Head of History Department, Miami Graded Schools, Florida.

A. B., Louisburg College; B. M., Shorter College, Ga.; student American Academy of Fine Arts, Florence, Italy; head of History department, Miami Graded Schools, 1913; teacher in rural schools of New York, North Carolina, and Florida.

WILLIAM HAND BROWNE

Physics and General Science

Professor of Physics and Electrical Engineering, State College of Agriculture and Engineering.

A. B., Johns Hopkins University, 1890, in Physics and Chemistry; certificate in Electrical Engineering, Johns Hopkins University, 1892; instructor in Electrical Engineering, University of Nebraska, 1896-1898; Assistant Professor of Electrical Engineering, University of Illinois, 1898-1902; Technical Editor of the *Electrical Review*, New York City, 1902-1908.

THOMAS EVERETT BROWNE

Rural Problems

Professor of Agricultural Extension, State College of Agriculture and Engineering.

B. A., Wake Forest College, 1902; teacher of Latin and Higher English, Atlantic Collegiate Institute, N. C.; County Superintendent of Schools, Hertford County, 1905-1911; Farm Demonstration Agent, 1908-1911; District Agent in Farm Demonstration work for Eastern District, 1911-1913; State Agent, Boys' Corn Club Work, and Professor of Extension, State College of Agriculture and Engineering; State Agent in charge of Agricultural Club work, 1915—; State Supervisor, Secondary Agricultural Education.

WILLIAM ROSWELL CAMP

Economics

Professor of Agricultural Economics, State College of Agriculture and Engineering.

B. A., 1909, Leland Stanford University; graduate student, University of Missouri; Director of the Bureau of Markets.

DAPHNE KING CARRAWAY

Primary Methods

Rural Supervisor of Elementary Schools, Wake County, North Carolina.

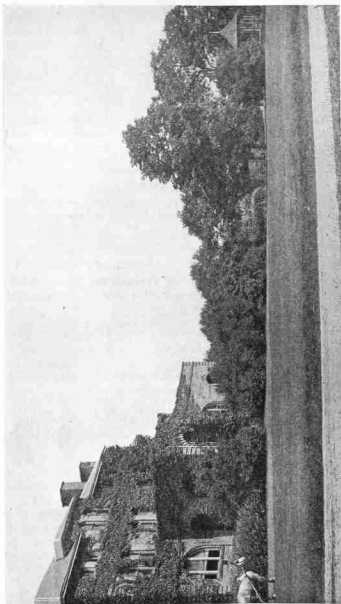
Graduate, State Normal College, Greensboro, N. C.; student in University of Tennessee and Summer School of the University of North Carolina; teacher in rural and city schools of North Carolina; graduate in Expression, Atlantic Christian College; institute assistant for five years; story-teller at State Normal Summer School; teacher of pedagogy and primary methods in Summer School of the East Carolina Teachers' Training School.

WILLIAM CARTER CROSBY

Rural Sociology

Executive Secretary, State Bureau of Community Service

Graduate Peabody Normal College, Tenn.; Educational Secretary North Carolina State Farmers' Union.



HOLLADAY HALL AND FRONT CAMPUS

- MAY HILL DAVIS** *Industrial Manual Training*
 Handicraft Teacher, State School for the Blind.
 Graduate of St. Mary's School, Raleigh; Instructor in Basketry, Cullowhee Normal Summer School; Vice-Chairman of the Arts and Crafts Department, Federation of Women's Clubs, North Carolina.
- NANNIE CARRINGTON DINWIDDIE** *French*
 Teacher in Fairmont Seminary, Washington, D. C.
 For seventeen years Associate Principal of Peace Institute; four years abroad studying languages in France and Switzerland; student in Summer School of Columbia University.
- MARTHA A. DOWD** *Music*
 Normal Training in Piano, St. Mary's School, Raleigh.
 Secretary North Carolina Music Teachers' Association, 1913-1915; President North Carolina Music Teachers' Association, 1916; member of the Association of Presidents and past Presidents of the State and National Music Teachers' Association; pupil of Edwin Farmer, formerly of the Peabody Conservatory, 1915; pupil of Clarence G. Hamilton, Associate Professor of Music at Wellesley College, 1916.
- DENNISON FOY GILES**
Classroom Management and the Rural School and Community
 Member of State Board of Examiners and Institute Conductors.
 Student of Trinity College and of the University of North Carolina; Superintendent, Marion Graded Schools; Superintendent, McDowell County Public Schools; Superintendent of Public Instruction, Wake County.
- MRS. PEARL CROSS GREEN** *Practice School and Writing*
 Teacher, Principal, and Supervisor of Penmanship, Raleigh Schools.
 Student, Evansville, Indiana, Public Schools; Indiana State Normal; Chicago University; teacher in Evansville, Indiana, Public Schools; Principal, Wake Forest schools, North Carolina; Supervisor, Raleigh Schools; Institute Conductor for State Department of Education.
- FRANK MARION HARPER** *Latin*
 Superintendent of the Raleigh Public Schools.
 Ph.B., University of North Carolina, 1888; A.M., University of Georgia, 1896; graduate student, University of Chicago, one year, with Latin as major subject; teacher of Latin in High Schools seventeen years.
- THOMAS PERRIN HARRISON** *English*
 Dean and Professor of English, State College of Agriculture and Engineering.
 B.S., South Carolina Military Academy; Ph.D., Johns Hopkins University. Associate Professor of English, Clemson College, 1893-1896; Professor of English, Davidson College, 1896-1909; Professor of English, State College of Agriculture and Engineering, 1909-; Dean of the College, 1910-; Teacher of English, Piedmont Summer School, Davidson, 1906-1908, and at University of North Carolina Summer School, 1910-1913.
- BEULAH CLARK HATCH** *Home Economics*
 Teacher in Simmons College, Boston.
 S.B., Simmons College, 1908; assistant in Household Economics, Simmons College, 1908-1909; instructor, Simmons College, 1909-1910; instructor in Home Economics, Pennsylvania State College, 1910-1911; instructor in Household Economics, Simmons College, 1911; instructor in Home Economics, Pennsylvania State College Summer School, 1912; instructor in Home Economics, Middlebury College Summer Session, 1914-1915.
- JOHN HENRY HIGESMITH** *Education*
 Member of State Board of Examiners and Institute Conductors.
 A.B., Trinity College, N. C., 1900; A.M., 1902; Principal Grammar School, Durham, N. C., 1901-1904; graduate scholar, Teachers College, Columbia University, 1904-1906; Professor of Philosophy and Bible, Meredith College, Raleigh, N. C., 1906-1907; Professor of Education, Wake Forest College, 1907; Professor of Education and Philosophy, 1915; teacher of Summer Normal School, Baton Rouge, La., 1906; Professor of Education in Summer School, State Normal College, Greensboro, N. C., 1912-1916; Conductor of Teachers' Institute, 1907-1916; Professor of Education and Philosophy, Wake Forest College, 1915.

C. L. HORNADAY

German

Instructor in German, Trinity College.

BENJAMIN FRANKLIN KAUFF

*Poultry Husbandry*Professor of Poultry Science, State College of Agriculture
and Engineering.

B.S. and M.S., Colorado Agricultural College; D.V.M., Kansas City Veterinary College; Veterinary Inspector, Bureau of Animal Industry, First Vice-President and Professor of Pathology, Kansas City Veterinary College, and Director of Anatomy Laboratory. Author of *Animal Parasites and Parasitic Diseases, Diseases of Poultry, Poultry Culture, Sanitation, and Hygiene and Anatomy of Domestic Poultry*. Pathologist, North Carolina Experiment Station and Department of Agriculture.

ELIZABETH KELLY

Community Organization

Rural School Supervisor, Johnston County.

Student in State Normal College and in various Summer Schools. Assistant Superintendent, Johnston County Schools.

JACK LONDON

Writing

Writing Expert, A. N. Palmer Company.

Supervisor of Penmanship in Central State Normal School in Edmond, Oklahoma; teacher in Summer School of Johns Hopkins University.

CLARENCE HEYLIN MACDONALD

Playgrounds and Gymnasium

Supervisor of Playgrounds, Raleigh.

Formerly Physical Director of Urbana University, Urbana, Ohio; of Ludlow Athletic and Recreation Association, Ludlow, Massachusetts; and Superintendent of Playgrounds and Public Recreation during the past four years at Jacksonville, Florida; Member of American Red Cross Life Saving Corps.

MRS. YANITA CRIBBS MANN

Practical Education

Formerly of the Faculty of St. Mary's School.

Graduate School of Oratory, Tuscaloosa Female College; special student University of Alabama; Director Expression Department, St. Mary's School, Raleigh.

ZENO PAYNE METCALE

*Nature Study*Professor of Zoölogy and Entomology, State College of Agriculture
and Engineering.

B.A., 1907, Ohio State University; Assistant Entomologist, North Carolina Department of Agriculture.

MRS. RUTH HUNTINGTON MOORE

Drawing

Director of the Art Department, Peace Institute.

Pupil at Academy of Design, New York City; Art Student League; Philadelphia Academy of Fine Arts; pupil of William M. Chase, Henry Salmem Hubber, Max Bahr, Fred M. MacMonnies, Rafael Collins; exhibitor in the Paris Salon and the Water Color Society of New York.

CLIFFORD LEWIS NEWMAN

Chairman Conference for Agricultural Teachers and Workers

Professor of Agronomy and Chairman Agricultural Faculty.

B.S. 1886, M.S. 1887, Alabama Polytechnic Institute. Assistant Professor of Agriculture, University of Tennessee, 1887-1889; Principal, North Alabama Agricultural School, 1889-1891; Assistant Agriculturist, Arkansas Experiment Station, 1891-1892; Agriculturist in charge of Branch Experiment Station, Camden, Arkansas, 1892-1897; Professor of Agriculture and Agriculturist Experiment Station, University of Arkansas, 1897-1905; Professor of Agronomy and Agronomist of Experiment Station, Clemson College, 1905-1908.

R. BLINN OWEN

Voice and Chorus

Dean of Music, St. Mary's School.

M.Mus. Detroit School of Music; pupil of Zimmermann, Mazurette, Theo. Beach of Detroit; Kreutschmar, in New York; Ellison Van Hoose; teacher in Detroit and New York; private teacher in Bluefield, W. Va., and Greensboro, N. C., 1906-1909; organist and choir director, Christ Church, Raleigh; Conductor of the St. Cecilia Club.

JOSHUA PLUMMER PILLSBURY

Horticulture

Professor of Horticulture, N. C. State College of Agriculture and Engineering.

Missouri Botanical Garden; B.S., Pennsylvania State College.

JAMES KEMP PLUMMER

Household Chemistry

Member of the Chemistry Staff, North Carolina Agricultural Experiment Station.

M.S., North Carolina State College of Agriculture and Engineering; Ph.D., Cornell University; assistant chemist, North Carolina Agricultural Experiment Station; University Scholar and Instructor, Cornell University.

CLARENCE POE

Rural Sociology

Editor *The Progressive Farmer*.

LL.D., Wake Forest College; author "A Southerner in Europe," "Where Half the World is Waking Up," etc.

ALICE DAY PRATT

Practice School

Supervisor of Schools, McDowell County

Graduate South Dakota Normal School; student of kindergarten methods, University of Chicago.

J. L. RANDALL

School Gardening

Specialist in School and Home Gardening, United States Bureau of Education.

B.S., M.S., New Hampshire State College, Assistant Principal, Biological Science, High School, Clinton, Massachusetts; head of Department of Science, State Normal School, California, Pennsylvania; supervisor of Nature Study and Gardening, Pittsburgh Playground Association; director of Nature Study and Gardening, Pittsburgh Public Schools; Professor of City Agricultural Education and Nature Study, School of Education, University of Pittsburgh; specialist, United States Bureau of Education, 1915; member of faculty, summer session, George Peabody College for Teachers, 1915-1916. Author of bulletins and special articles on Nature Study and School Gardening.

WATSON SMITH RANKIN

Physiology and Hygiene

Secretary of the North Carolina State Board of Health.

M.D., University of Maryland; graduate student, Johns Hopkins Medical School; dean of the School of Medicine, Wake Forest College.

ROBERT E. RANSON

School Law and Civics

Superintendent, Southport, N. C., Graded Schools.

A.B., Erskine College, 1901; student at Winthrop Summer School, 1902; Davidson Summer School, 1904 and 1905; University of North Carolina Law School, summer session of 1912; granted license to practice law by Supreme Court, 1913; graduate student, University of North Carolina, summer sessions of 1915 and 1916; teacher in public schools of South Carolina, North Carolina, Arkansas and Florida, 1901-1908; Superintendent, Nash County Schools, 1909-1911; Principal, Troy High School, 1911-1913.

MRS. ROBERT EUGENE RANSON

Story-Telling

Reader and Story-Teller.

Graduate, Mont Amona Seminary, 1904; graduate, School of Expression, Elizabeth College, 1906; teacher of English and Expression, Mount Amona Seminary, 1907-1908; teacher Music and Expression, Shelby Graded School, 1908-1909; Principal, Kings Mountain High School, 1909-1910; story-teller, Nash County Schools, 1910-1911; teacher of Expression, Troy High School, 1911-1913; President of North Carolina Story-Tellers' League; Editor Story-Tellers' Page, *North Carolina Education*; Campus Story-Teller and Assistant Instructor in Story-Telling, University of North Carolina Summer School, 1915 and 1916; teacher of Music and Expression and Story-Teller, Southport, 1913-.

R. E. SENTELLE

Arithmetic and Geography

Superintendent of Lumberton Graded Schools.

A.B., Wake Forest College; teacher in Wakefield Classical and Mathematical School; Superintendent of Elizabeth City schools; Director of Summer School at Chowan College; Conductor of Institute work, State Department of Education.

DEE GRANVILLE SULLINS

Dairying

Assistant Professor of Animal Industry and Dairying, State College of Agriculture and Engineering.

Graduate, of the Sixth Agricultural School of Alabama; B.S., Alabama Polytechnic Institute; B.S.A. and A.M., University of Missouri; teacher in rural schools of Alabama and in Sixth Agricultural School of Alabama.

MARY ETHEL TERRELL

Primary Reading and Language

First Grade Teacher in Asheville City Schools.

Graduate of Davenport College; student, Summer School of the South, 1910; student, State Normal College, summer sessions of 1912 and 1914; special grade teacher, Wadesboro City Schools.

LILLIAN LEE VAUGHAN

Drawing and Shopwork

Assistant Professor of Experimental Engineering, State College of Agriculture and Engineering.

B.E. in Mathematical Engineering, North Carolina State College of Agriculture and Engineering; M.E., Columbia University.

MRS. KATE BREW VAUGHN

Home Economics

Lecturer, Author, and Demonstrator of Culinary Work.

Graduate of St. Cecilia Academy, Nashville, Tenn.; pupil American School of Home Economics, Chicago; Teachers College, Columbia University, New York; lecturer for five years for newspapers in United States; special course, Tribune Institute. Author *Culinary Echoes from Dixie*, *High Cost of Living*, etc., etc.

CHARLES BURGESS WILLIAMS

Agriculture

Vice Director North Carolina Experiment Station.

B.S. and M.S., North Carolina State College of Agriculture and Engineering; student, Johns Hopkins University; assistant chemist in State Department of Agriculture; attended Summer School of Agriculture at the Ohio State University; Chief Division of Agronomy, North Carolina Experiment Station, Department of Agriculture and Extension Service.

LEON FRANKLIN WILLIAMS

Chemistry and Geology

Associate Professor of Chemistry, State College of Agriculture and Engineering.

A.B., A.M., Trinity College; Ph.D., Johns Hopkins University; teacher of Chemistry, West Virginia University Summer School, 1914.

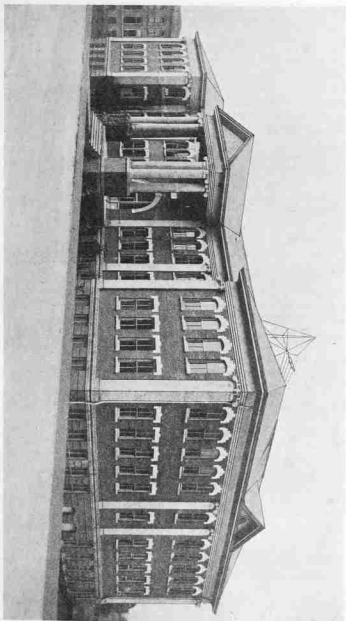
FREDERICK A. WOLF

Botany

Professor of Botany, State College of Agriculture and Engineering.

A.B., University of Nebraska, 1907; A.M., 1908; instructor in Botany, University of Texas, 1908-1910, and in the summer school of the University; 1910-11, Goldwin Smith fellow in Cornell University; Ph.D., Cornell University, 1911; special agent, Bureau of Plant Industry, United States Department of Agriculture, summer 1911; Plant Pathologist, Alabama Experiment Station, 1911-1916.

WINSTON HALL, ENGINEERING BUILDING AND OFFICE OF THE DIRECTOR OF THE SUMMER SCHOOL.



LECTURERS

- THOMAS WALTER BICKETT, A.B., Governor of North Carolina.
- CHARLES EDWARD BREWER, A.M., Ph.D., President of Meredith College.
- THOMAS EVERETT BROWNE, A.B., Professor of Extension, State College of Agriculture and Engineering.
- WALTER CLARK, LL.D., Chief Justice of the North Carolina Supreme Court.
- ROBERT DIGGS WIMBERLY CONNOR, A.B., Secretary of the North Carolina Historical Commission; author of *Cornelius Harnett*, etc.
- JOSEPHUS DANIELS, LL.D., Secretary of the Navy.
- B. B. DOUGHERTY, Superintendent of the Appalachian Training School.
- MARY OWEN GRAHAM, President of Peace Institute.
- THOMAS PERRIN HARRISON, Ph.D., Dean of the State College of Agriculture and Engineering.
- DANIEL HARVEY HILL, LL.D., ex-President State College of Agriculture and Engineering.
- JAMES YADKIN JOYNER, LL.D., State Superintendent of Public Instruction.
- GEO. W. LAY, A.B., D.C.L., Rector of St. Mary's School.
- MRS. JANE SIMPSON MCKIMMON, State Home Demonstration Agent. Three lectures on country organization. These lectures will treat of the method of conducting club work for rural women and girls and of the organization of communities, and will include the social aspect of this type of work and the financial problems involved.
- EMILIE WATTS McVEA, LL.D., President of Sweet Briar College, Virginia: Woman and Her New Responsibilities.
- FREDERICK A. OLDS, Director of the State Hall of History: Your Raleigh as You See It.
- CLARENCE POE, LL.D., Editor of the Progressive Farmer: The Development of the Rural Community.
- CHARLES ALPHONSO SMITH, Ph.D., Poe Professor of English, University of Virginia; Professor-elect, United States Naval Academy; author of *Elementary English Grammar*, *Studies in English Syntax*, *What Can Literature Do for Me?* and *O. Henry Biography*; (1) American Literature in Foreign Lands, (2) Poe as a World Influence. (3) English and Scottish Ballads in the South, (4) The Deeper Significance of the Uncle Remus Stories, (5) O. Henry.
- JAMES R. YOUNG, State Insurance Commissioner: Fire Prevention.

GENERAL INFORMATION

History and Purpose

During the summer of 1917, by authority of the Board of Trustees, the North Carolina State College of Agriculture and Engineering will give to the teachers of the State the opportunity of using, for six weeks, its magnificent plant, the value of which is in excess of one million dollars.

On two previous occasions this College had a summer school. The first session was during the summer of 1903 and under the presidency of Dr. George T. Winston. The total attendance during that session was 338, representing 9 States, and 57 counties in North Carolina. The teachers in attendance came from 167 rural schools, 66 city graded schools, and 39 academic and high schools.

The second session was during the summer of 1904. There was an enrollment of 840 teachers. This enrollment was, at that time, the second largest in the South. It had never been exceeded by any summer school in North Carolina before that time, and has been exceeded since only a single time by one summer school.

The Trustees have authorized the summer session in order that the splendidly equipped and centrally situated college plant may be useful at a time when teachers, principals, supervisors, and others have leisure for self-improvement. As the public has a vital interest in the education of teachers and leaders, the College can do no better work during the summer than put its equipment at the disposal of those teachers, school officials, and agricultural workers who are ambitious to increase their usefulness.

The courses have been arranged to cover the subjects taught in the primary, grammar, and high school grades. They will, therefore, be adapted to teachers and to officials connected with any department of school work.

Professional courses in education, etc., will be given, and there will also be cultural subjects of advanced grade.

These courses will also give an opportunity for better preparation to those who contemplate entering this or some other college.

The School will afford a splendid opportunity to secure or renew a Teacher's Certificate; to increase efficiency as a teacher; to prepare for leadership in the new education for agriculture and other industries; to receive inspiration from association with fellow teachers; and to enjoy a sojourn at the State's Capital and Educational Center.

Situation

Raleigh is centrally and conveniently situated on the main lines of the Seaboard Air Line and Norfolk Southern railways and on the Greensboro-Goldsboro line of the Southern Railway.

The College, in West Raleigh, may be reached by street cars bearing the sign "Hillsboro." All other cars except those marked "South Street" transfer to the Hillsboro Street line.

To reach the College from the Union Station, take the Blount Street car (southbound) immediately in front of station, and transfer at the Soldiers' Monument (Salisbury Street, Hillsboro, and Capitol) to the car marked "Hillsboro." Do not take the car northbound from station, because this would mean an inconvenient delay.

Raleigh has been variously named the city of schools, the city of churches, the city of oaks, and the city of homes. Whichever be the right name, it is a hospitable and attractive place, the center of the State Government, and a city which has good streets, handsome public buildings, and excellent public utilities. The State Museum, the Capitol, the Department of Agriculture, and the numerous industrial plants furnish rare opportunities for those who have eyes to see.

The people of Raleigh, through their Chamber of Commerce, have rendered material aid to the school, which is already counted among the permanent institutions in the Capital City.

Reduced Railway Fares

The Associated Railways of Virginia and the Carolinas (including the Atlantic Coast Line, Charleston & Western Carolina, Norfolk Southern, Piedmont & Northern, Seaboard Air Line, and Southern) have announced that tickets at reduced rates will be sold on dates as follows, return limit in all cases being July 31:

June 8 to 12 inclusive.

June 22 to 25 inclusive.

July 2 to 13 inclusive.

These arrangements will make it possible to secure reduced railway rates for the whole session or for the Conference of Agricultural Teachers and Workers. It is suggested, however, that those who are coming to the Summer School inquire of their agents two or three days in advance in order to make sure that tickets of the right form are on sale.

Fees and Expenses

The expenses for the entire session will be as follows:

Tuition	\$ 6.50
Room rent, two in room.....	5.00
Medical fee ¹ (for students rooming and boarding in College)75
Gymnasium fee50
Library fee25
Board	18.75
	<hr/>
	\$31.75

There will be no refund of fees after the first ten days.

¹The services of the College Physician and use of the Infirmary will be restricted, except by special arrangement at individual expense, to students rooming and boarding in College. Except in case of protracted illness, there will be no charge beyond the 75-cent fee; but consultations must be at the Infirmary at the hours designated by the College Physician. From those who room or board outside of the college the medical fee will not be collected.

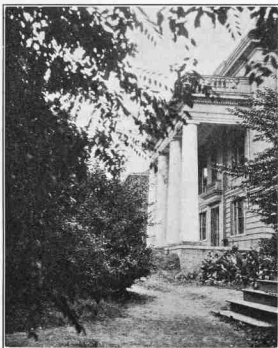
Registration

The office of registration will be in Winston Hall.

Students are urged to register on Tuesday, June 12, in order that they may begin class work at the beginning; but there will be opportunity to register on Wednesday, June 13.

Hours of Work

It is important to notice that students are required to take fifteen hours weekly in order to earn certificates, and that no one will be permitted to take more than twenty hours. It has been the experience of Summer School



PULLEN HALL AND LIBRARY

faculties that ambitious students, unless prevented by a rigid rule, will take much more work than they can assimilate, with the result that they are bewildered rather than instructed, and that they go stale instead of being heartened by their work.

In addition to the fifteen or twenty hours regularly taken, each student will be allowed a limited number of visiting hours.

Except where there is specification to the contrary, each course is given five hours a week.

Certificates and Credits

Examinations will be held at the end of the session and certificates will be issued to those who make satisfactory grades. Admission to examination will be based upon satisfactory attendance.

The certificates will specify the courses taken and the grades, and will be valid under the general provisions of the school law. The character of the Faculty and the standard of work maintained will give the certificates solid value aside from satisfying formal requirements. The courses in education have been specially approved by the Superintendent of Public Instruction. Summer School certificates will count in lieu of attendance at county institutes, and will be good for two years.

Board and Lodging

Board may be had in College. See schedule of charges. A limited number of young ladies may earn \$18.75 of their expenses by waiting on the tables in the College dining-room.

The 1911 and South dormitories will be assigned to ladies exclusively. Chaperons have been engaged for each of these buildings, among them being Mr. and Mrs. H. H. McKeown, Mocksville; Mrs. E. D. Miller, West Raleigh; Miss Eliza Parker, Chadbourn; Mrs. Leak Peace, Hester; Miss Zoe Porter, Roanoke Rapids; Mr. and Mrs. R. E. Ranson, Southport; and Mrs. Wingate Underhill, Louisburg.

Many of the homes in Raleigh will supply board and lodging. A list of the names will be found on page 32.

Baggage

Arrangements have been made by which baggage may be checked from the Union Station direct to students' rooms.

Postal Arrangements

Except for students boarding in Raleigh, mail should be addressed to West Raleigh, N. C. The West Raleigh postoffice is near the College.

What Students Should Bring

Those who room in the College will need to bring sheets for single bed, pillow-cases, spreadings, towels, a pillow, and a mirror.

Books and Stationery

For the convenience of students, books and stationery will be sold at the Summer School Bookstore in the Y. M. C. A. Building. This is the building which will be used as the Summer School social center.

The Summer School will use, so far as they cover the ground, the text-books adopted by the State. The State adoptions include books used in the first seven grades.

Chapel and Vesper Services

In addition to the chapel services which will be held at 10:20 every weekday morning, there will be a vesper service each Sunday with appropriate music. The services planned and the ministers in charge are as follows:

June 17—Rev. J. L. MORGAN, Pastor of the Lutheran Church.

June 24—Rev. Dr. WESTON BRUNER, Pastor of the Tabernacle Baptist Church.

July 1—Rev. Dr. W. McC. WHITE, Pastor of the First Presbyterian Church.

July 8—Rev. C. A. ASHBY, Rector of the Church of the Good Shepherd.

July 15—Rev. M. BRADSHAW, Pastor of the Edenton Street Methodist Church.

July 22—Rev. R. L. WILLIAMSON, Pastor of the Christian Church.

Medical Attendance

The services of the College Physician and use of the Infirmary will be restricted, except by special arrangement at individual expense, to students rooming and boarding in College. Except in case of protracted illness, there will be no charge beyond the seventy-five-cent medical fee; but consultations must be at the Infirmary at the hours designated by the College Physician. From those who room or board outside of the College the medical fee will not be collected.

The Physician will make daily visits to the Infirmary.

Employment Bureau

The Employment Bureau will, without charge, assist principals to secure teachers who may be registered in the school and assist teachers registered in the school to learn of positions which are open. Miss Mary G. Shotwell, Supervisor of Schools of Granville County, will be in charge.

School Boards and Superintendents are invited to notify the Employment Bureau of their needs.

Practice School

The courses designated as Education XXI and XXII, under the general supervision of Mr. D. F. Giles, of the State Board of Examiners, will give interesting and thoroughly practical demonstrations of useful methods. The work of the second and third grades will be conducted by Miss Alice D. Pratt, of the McDowell County Schools. The fourth grade and fifth grade work will be conducted by Mrs. Pearl Cross Green, of the Raleigh Public Schools.

Conference for Agricultural Teachers and Workers

This conference (designated elsewhere as Agriculture IX) will be under the chairmanship of Professor C. L. Newman, Chairman of the Agricultural Faculty, with the coöperation of Professor T. E. Browne, State Supervisor of Secondary Agricultural Education, who has also been engaged to give a lecture. *The dates are June 25-30.*

Among the lecturers will be Dr. J. Y. Joyner, State Superintendent of Public Instruction; Dr. Clarence Poe, Editor of *The Progressive Farmer*; B. W. Kilgore, Director of Agricultural Experiment Station and Extension Service; J. L. Randall, of the United States Bureau of Education.

The Department of Agriculture, the College, and the Experiment Station will be represented, and there will be a large attendance of County Superintendents, County Supervisors, and others who are interested in agriculture and education.

Library and Reading-Room

The College Library, containing about eight thousand volumes, with about a hundred and fifty periodicals, will be at the disposal of the Summer School, the College Librarian, Mrs. Charlotte M. Williamson, being in charge.

The Olivia Raney Library and the State Library will also be open to those attending the Summer School.

The Social Center

The Y. M. C. A. Building will be the social center of the School. This building contains a reading room, an auditorium, several reception rooms, a bowling alley, a gymnasium, and a swimming pool. The chaperon in charge of this building will be Mrs. J. A. Beam, of Woodsdale, N. C.

Recreations

Though the Summer School will be a place for work, every effort will be made to make the session at once profitable and enjoyable. Among the recreations planned are at least two concerts, numerous popular lectures, folk-dancing, playground work, a reception by the Woman's Club of Raleigh, and personally conducted expeditions to points of interest in or near Raleigh, under Col. Fred A. Olds, Director of the Hall of History. There will also be opportunities to enjoy swimming, tennis, and other kinds of exercise.

Concerts

There will be at least two evenings of music, and it is probable that others will be arranged.

Miss EMILIE ROSE KNOX, formerly of the Cincinnati Conservatory of Music, will give a violin recital. Miss Knox, an artist with a successful concert record, is at present a pupil of Kneisel, who ranks as the dean of American quartet leaders.

Mr. R. BLINN OWEN, Dean of Music at St. Mary's School and a very successful chorus director, will train a Summer School chorus for the production of Cadman's cycle, "Morning of the Year," with special soloists. Another choral concert will probably be arranged in addition.

Miss ANNA GRAHAM HARRIS, contralto, of Wilmington, N. C., will give a song recital.

DEPARTMENTS OF INSTRUCTION

AGRICULTURE

(See also Economics, Education, Science.)

The teaching of agriculture in the rural schools of the State is of the most fundamental importance. If properly presented to the pupils it should not only be exceedingly interesting to them but be equally as valuable for mind training as any other subject that is taught. When properly presented it will be a means of linking the students to rural life and of developing in them an interest in efforts taken in the building up of life in the country. Not only this, but it will bind them to the farm by cords that cannot be severed by the attractions of city life.

I. Elementary Agriculture. This course is intended for rural and other teachers who are required to teach agriculture in the lower grades and who have not had an opportunity previously to study this subject. The course will deal in an elementary way with some of the main economic characteristics of the soils of the farm, dwelling particularly upon how these in a vital way influence and determine crop growth. Chief attention, however, will be given to the nature of plants commonly grown on the farm, their requirements, and how they grow and are improved under proper management by the farmer. An attempt will be made in the course to link the subject matter with the everyday home life of the pupils on the farm, teaching them the reasons for the different operations required to produce crops which they have had more or less experience with or have observed on the home farm. In some cases the instruction will be along the line of using better methods to replace those that are already in use. In order to carry out the work as it should be, field trips, demonstrations, and laboratory exercises will be required. The kind of apparatus, however, that will be used will be of a very simple kind, in fact, the kind that any rural teacher would be expected to secure from his local store. Textbook, *Agriculture for Beginners*, supplemented by appropriate bulletins and pamphlets. Mr. WILLIAMS.

II. Advanced Agriculture. This course is intended for teachers in farm-life and high schools, for supervisors of rural schools, demonstration agents, corn club agents, especially those who are contemplating going into this kind of work, as well as others who are interested in teaching more advanced agriculture in the schools of the State. The subject matter will include the fundamental principles of crop production such as seed selection, judging, seed testing, cultivation, drainage, soil moisture and its conservation, etc. Special attention will be given to those crops like corn, which are the chief ones grown in the State at this time. Some attention, too, will be given to seed-bed preparation, tillage, planting and harvesting of the crop. In this course laboratory exercises to verify the demonstrations given in the class will be required. Reference texts, appropriate State and Federal bulletins on agriculture. Mr. NEWMAN and Mr. PILLSBURY.



DINING HALL.



Y. M. C. A. BUILDING. THE SUMMER SCHOOL SOCIAL CENTER

III. Dairying. This course will consist primarily of demonstrations and actual practice in the operation of laboratory apparatus that may be easily used in rural schools at a very low cost. The demonstrations will include the testing of milk and cream for butterfat and the operation of cream separators and churns. Special emphasis will be laid on methods that are entirely practical on farms. The use of the score card in judging cows will be explained and some actual practice given. Such practice is possible in rural schools and should be very interesting and profitable. So far as possible, actual practice will be given in all of the above work. Some time will be devoted to lectures treating of sanitation in handling milk, methods of keeping milk records, and the lighting and ventilation of dairy barns. Mr. SULLINS.

IV. Elementary Poultry Work. This course will be given one period a day for the last three weeks of the summer term, ten one-hour periods and five two-hour periods. This course is designed to meet the needs of the children of the grades. There will be taught fundamentals of farm poultry work: how to make a hen's nest, set the hen, care and feed the hen; how to construct the combination sitting and brooding coop; the care and feeding of the hen and her flock; how to protect the chicks from the hawks and other enemies, as rats; simple methods of candling eggs; how to grade eggs for the market and to select eggs for sitting; how to select birds for breeding, and the care and management of the farm flock; kinds of feeds best suited and how to mix them; how to care for and feed the flock in the winter for eggs; the community circle and coöperative community poultry work; breeds best suited for utility and for eggs; how to select and breed for vigor, and best results for which the mating is being made. Mr. KAUFF.

V. Gardening. Open to those who wish to prepare themselves to teach or supervise school and home gardening. Topics: Planning, planting, cultivating; controlling of insect enemies and plant diseases of the garden; methods of propagation; best varieties for certain seasons; fall and winter gardens; making and caring for cold frames and hot beds; floral planting about the home and school; the window box; problems connected with gardening. Practice work in the garden is required of all students, and the possibilities of home gardening in cities are demonstrated by visits to successful home gardens. Mr. RANDALL.

VI. Agricultural Education (Seminar). Advanced problems in Agricultural Education. Open to those who have completed courses in gardening, and have had practical experience. This course is open to advanced students, principals, and superintendents of schools. Theory and practice of agricultural instruction in public schools will be the main theme of instruction. Mr. RANDALL.

VII. Rural Life Problems (Lecture Course). A brief study of rural communities in the United States, with special emphasis upon conditions in North Carolina. In this will be studied the different types of communities and the factors determining these types. A careful study will be made of the relation between modern agricultural methods, education, good health, recreation, transportation, communication, immigration, coöperative enterprises, etc., and the social problem in the country. The numerous agencies which are available, and the manner in which they may be used in the solution of the rural problems will be given detailed consideration. The rural survey and its value in working out a solution of country life problems will be

studied. As a text *Constructive Rural Sociology*, by John M. Gillette, will be used. Frequent references will be made, also, to other standard books on sociology and country life. Mr. T. E. BROWNE.

VIII. **Nature Study.** (Also listed as Science II.) This course is designed to fit the teacher to give courses in nature study in the rural schools of the State. The work will be given so that it will apply to whatever elementary grades the teacher may be interested in. The work in nature study is strictly introductory to elementary agriculture and is designed to give the student a general understanding of the realm of birds, flowers, bees, insects, trees, and stars. The work will be pursued in library, field, laboratory, and classroom. Mr. METCALF.

IX. **Conference of Agricultural Teachers and Workers** (June 25-30). Conferences of superintendents, extension workers, teachers of agriculture, and specialists. Dr. Clarence Poe and Superintendent J. Y. Joyner will be among the speakers. Mr. NEWMAN, Chairman; Mr. T. E. BROWNE cooperating.

DRAWING AND MANUAL TRAINING

I. **Primary Drawing.** Realistic study of Nature; reduction of realistic forms to conventional; adaptation of conventional forms to pattern, with explanations; principles of color in art, its relation to nature and to decoration; decorative lettering; elements of perspective aerial and linear; principles of art. This course is arranged with special reference to having teachers present the subject. Mrs. MOORE.

NOTE. Mrs. Moore will take private pupils in portrait painting and landscape and illustrating. Persons interested will please communicate directly with her.

II. **Mechanical Drawing.** Instruction in the principles of mechanical drawing for those who expect to teach this subject and manual training in the grade and high schools. The course will cover such work as line exercises, lettering, orthographic and isometric projection, and geometric construction. The aim of the course is the making and reading of work drawing. Study of projects for pupils of various grades and correlation of drawing and shop work will be included. Mr. VAUGHAN.

III. **Industrial Manual Training.** Basketry for all grades; caning chairs, stools, etc.; pine-needle work; raffia and reed basketry; chair seating in woven work. The purpose of this work is to meet the needs of the average school, showing the uses of various materials suitable for handwork in both rural and city school. The place of industrial work in education should be that of practical value, and the handwork taught will be supplemented by talks on materials, methods, and dyeing used in basketry. Miss DAVIS.

IV. **Woodwork.** This course is designed to give instruction in the use, care, and adjustment of the tools as used in simple bench work, to those who expect to teach manual training in the grade and high schools. Simple exercises in bench work will be given. The exercises will consist of such work as squaring-up rough stock, laying off work, and the construction of simple useful articles. Special attention will be given to the use of work drawings as applied to shop work. Mr. VAUGHAN.

ECONOMICS

(See also Home Economics.)

I. Markets and Credits. The school is the first center to teach the principles of organization and educate the community to realize three purposes: (1) Organization for improving and growing the same varieties of products, for standardizing the grade and pack, for selling in large lots, and for finding the best markets; (2) organization for the cooperative purchase of supplies; (3) organization of (a) credit unions for encouraging saving and making short-time loans to members, and (b) national farm loan associations for long-time loans. Five hours, three weeks. Mr. CAMP.

EDUCATION

I. Reading in the Primary Grades. This course will deal with the subject matter and methods of teaching reading in the first three grades. There will be fifteen lectures on the mechanics of reading, emphasizing the means of starting the child properly, and fifteen lectures based on the child's interests, activities, and social needs. Miss TERRELL.

II. Primary Language. This course will cover the language through the first three grades, and will be based on oral and written reproduction, dramatization, and study of poems. Miss TERRELL.

III. School Administration. Five hours. The purpose of this course will be primarily to familiarize the students with the plan of school administration in North Carolina for (a) county schools, (b) special charter schools, (c) the new certification law. Running parallel with this study, selected chapters of Cubberly's *School Administration* and Sneddon's *High School Administration* will be studied. Investigations and reports. Mr. ALLEN.

IV. Reading and Grammar. Three hours. Books: *Reading Literature*, books IV and V; *Practical English*; *Essential Studies in English*; Reading Circle books on State list; certain selections be taken from the adopted books on reading and grammar. They will be studied from the following standpoints; (1) How to motivate, (2) How to analyze values, (3) How to outline and organize, (4) The child's contribution. Reference Books: Hughey's *The Psychology of Reading*, Jenkins' *Reading in the Grades*, Bolenius's *Literature in the Grades*. Mr. ALLEN.

V. Methods of Teaching History. Two hours. Study of special topics in "Our Republic." These topics will be studied in small subheads, in each case about sufficient for a seventh-grade lesson. The study of these topics will be for the purpose of trying to find out the best way of presenting them to children. The chapters in the Reading Circle books of the State list will be consulted and the results applied to the lessons. Reference books: Johnson's *The Teaching of History*, Hartwell's *The Teaching of History*. Mr. ALLEN.

VI. Methods of Teaching Latin. (See Language I, II.) Mr. HARPER.

IX. Practical Elocution. Purpose, to broaden the power of individual thinking and arouse an appreciation of literature by the lucid interpretation

of it to others, and to train teachers. Particular attention paid to the standing position, articulation, pronunciation, projection, breath control and voice development. Work in aesthetic physical culture for use in gestures. Mrs. MANN.

X. The Rural School and the Rural Community. Five hours per week. This course is offered to those engaged in, and expecting to engage in, rural school work or organization. It will be assumed that some communities are organized and some are not. The organized rural community will be discussed as follows: (a) How it was organized; (b) Possible results from the organization; (c) New community activities easily introduced in the organized community. The unorganized community will be discussed and named. Definite plans for the organization will be given, and the place or part of the teacher or teachers will be outlined. The social, economic, and religious problems of the community will be a factor in this course, and the work of the teacher in their solution will be paramount. The course will be offered to teachers of all grades above the third. Mr. GILES.

XI. Psychology.—Three hours a week. All good teaching is based on psychology. This course is elementary in its scope, the aim being to acquaint teachers who have had limited training in education with the leading facts and principles of psychology. The course will cover such topics as instinct, sensation, perception, mental images, imagination, attention, interest, memory, the emotions and the will. Textbook, Betts's *The Mind and Its Education*. Mr. HIGHSMITH.

XII. Principles of Teaching. In this course an attempt will be made to base the chief principles of teaching upon the laws of psychology. The aim of the course is to help teachers, both rural and urban, to be more scientific in their work. Mr. HIGHSMITH.

XIII. Educational Psychology. Three hours a week. This is an elementary course in educational psychology, giving a general introduction to the study of mental development. The instinctive responses of the child and his mental traits and characteristics at various stages of development will be discussed, and this will form the basis for a study of the child's educational progress in the school. Mr. HIGHSMITH.

XIV. Classroom Management. Five hours per week. This course will relate more directly to the organization of the classroom work in the grades in three, five, and ten-teacher schools. Special attention will be given to the making of lesson plans, daily schedules, and supplementary work that connects the schoolroom with outside activities. Mr. GILES.

XVI, XVII. Story Telling. The purpose of this course is to teach the value of story telling. An effort will be made to show how the story telling may be correlated with the regular work of the schoolroom. Various kinds of stories will be told and studied, a suggestive list of these being given. There will be practice in adapting and telling stories, and also in the dramatization of them. Suggestions will be made for arranging programs for county commencements and other public occasions. There will be two sections, each meeting five hours a week:

- (1) Primary Section, for teachers of first, second, third and fourth grades.
- (2) Grammar and High School Section, for teachers of fifth, sixth, seventh, and high school grades. Mrs. RANSON.

NOTE. An informal gathering for the purpose of singing, playing simple games, and telling stories will be held each evening at the twilight hour on the campus. All who care to attend are invited.

XVIII. **Play and Playground Course.** There is a growing demand throughout the country, and especially the South, for men and women teachers who are able to lead children in physical activities and playground work. The demand arises because of the increasing realization of the importance of organized play as a real part of general education. The course is designed especially for grammar school or high school teachers, both men and women, and for principals and superintendents. The course will embrace the following phases of playground work: (a) *Play and Recreation:* Theories of play, function and need of play, place of play in life and education, play as a factor in health and physical development, need for organized play in school, city, rural community. (b) *Construction and Equipment:* Selection of sites, arrangement of facilities; specifications of plans and equipment for various types of playground, home-made apparatus, etc. (c) *Administration:* Installation and care of equipment, conduct of playground activities; most successful activities and their organization; contests, leagues, tournaments, and athletic features. (d) *Personal Hygiene:* It is the duty of every teacher to instruct his pupils in the simple laws of healthful living. This course takes up the subjects of muscular exercise, bathing, fatigue, care of teeth; narcotics and stimulants, etc. (e) *First Aid to Injured:* This course offers in detail a consideration of cause, nature, and treatment of sprains, dislocations and fractures; hemorrhages and wounds; fainting, drowning and asphyxiation; artificial respiration and resuscitation.

Much stress will be laid upon the practical application of playground methods and procedure, including group games of low and high organization; "stunts"; athletic competitions; playground gymnastics, tumbling, and other activities. Playground apparatus will be erected on the campus and will be used for demonstration work. Instruction will be given in the use of each individual piece of apparatus. The general purpose of this course is to offer opportunity for a pleasant six weeks of improvement in the technical phases and broader aspects of physical education and play. One hour daily. MR. MACDONALD.

XIX. **Swimming.** Facilities will be offered for instruction in this important exercise.

XXI. **Primary Practice School: Grades 2 and 3.** MR. GILES, MISS PRATT.

XXII. **Practice School: Grades 4 and 5.** MR. GILES, MRS. GREEN.

XXIII. **Community Organization.** A course in which attention will be paid to the problem of getting community to unite for purposes of education and improvement. MISS KELLY.

Teachers' Institutes, held June 12-25 and July 12-25, will give an opportunity of summer instruction to many who cannot attend the entire Summer School. MR. HIGSMITH and other members of the Summer School Faculty.

ENGLISH

I. **English for the Grades.** Grammar and elementary composition form the basis of the course. Methods of teaching as well as the principles involved will be considered. As time allows, reading in the grades below the

high school will be discussed. Emerson and Buehler, *Modern English*, Books 1 and 2. Mr. HORNADAY.

II. **English for High Schools.** The entire subject will be considered with a view to adjusting the College entrance requirements, so that while preparing students for college, the greatest benefit may also accrue to students who will not enter college. Textbooks: any standard rhetoric of high school or college grade; any edition of Shakespeare's *Hamlet*, *Macbeth*, and *Julius Cæsar*, Milton's *Minor Poems*, Macaulay's and Lincoln's *Speeches*, Carlyle's *Essay on Burns*. Five hours a week. Mr. HARRISON.

III. **English Literature of the Victorian Period.** The facts and the spirit of the period will be interpreted in lectures, and in reports by members of the class upon work done in the College library. The greater poets, novelists, and essayists will be studied. Five hours a week. Mr. HARRISON.

GEOGRAPHY AND GEOLOGY

I. **Geography.** A course in teaching geography in the grammar grades. Five hours per week for six weeks. The minimum essentials for an elementary course in geography will be worked out, and the geographic influences upon local, State, and national life will be shown. Lectures, assignments, research work, illustrative materials, devices, standard tests, and lesson plans will take their places upon the program. Members of the class will be called upon to prepare and bring before the class model lessons in geography. These lessons will be followed by criticisms and general discussions. Mr. SENTELLE.

II. **Geology.** Among the topics treated will be the formation and changes in the rock, the agencies at work in soil formation, the dynamic changes and the chief geologic features and agencies in the earth. Special emphasis will be laid upon the geological features of this State. Textbook, Norton's *Elements of Geology*. Mr. WILLIAMS.

HISTORY

I. **North Carolina History.** A course in North Carolina History, stressing especially the Colonial and Revolutionary Period, with the English background. Textbook, Hill's *History of North Carolina*. References: Ashe's *History of North Carolina*, Albertson's *In Ancient Albemarle*, Connor's *Makers of North Carolina History*, and Cheney's or Green's *Short History of England*. Miss ALBERTSON.

II. **American History.** A course which will serve as a review but not a mere recapitulation. The present international situation will make American history a highly interesting subject and one which will furnish opportunity for new viewpoints. Miss BECKWITH.

III. **English History.** Either Cheney's *Short History of England* or Green's *Short History of the English People* will serve the purpose in this course. The work will aim at instruction in the history of a great people whom Americans have fresh reason to appreciate. Miss BECKWITH.

HOME ECONOMICS

I. **Teachers' Course.** Two hours weekly. First week: (1) Lecture: types of school, equipment, problems, textbooks, uniforms, methods, sequence of lessons, reference readings. (2) Demonstration: typical lessons taught

through recipes—cereals, vegetables, batters, doughs. Second Week: (1) Lecture: dishwashing, cost accounting, budgets, menu building, fuel. (2) Demonstration of batters, doughs, cheese, sauces, casserole, yeast-leavened rolls. Third week: (1) Lecture: digestion, nutrition, hygiene, combinations. (2) Demonstration: meats, deep fat frying, salads and simple salad dressings. Fourth week: (1) Lecture: invalid cookery, for sick and for convalescent, dining-room courtesies. (2) Demonstration: invalid tray, eggs, milk, gelatine, tapioca. Mrs. VAUGHN.

II. **Housekeepers' Course.** Three lessons weekly, three hours. First week: (1) Lesson: baking powder breads, plain and fancy. (2) Discussion: leavens. Second week: Yeast-leavened breads, various types of rolls, babas, brioche, light cake. Third week: Cakes—sponge, angel, sunshine, and hot-water types; butter cakes and icings, fruit cakes and icings. Fourth week: Pastries—plain, flake, puff; frozen desserts—parfaits, creams, ices, puddings; salads, salad dressings. Mrs. VAUGHN.

Joint Lesson for Teachers and Housekeepers. Table service; dining-room courtesies. Mrs. VAUGHN.

III. **Principles of Cookery.** Lectures, recitations, and laboratory exercises. This course presents a study of typical foods, including their composition and the principles underlying their cookery. Practice is given to illustrate the simple processes of cookery and to secure skill in the use of utensils and materials. Miss HATCH.

IV. **Household Chemistry.** The textbook will be Weed's *Chemistry in the Home*, which will be studied at the rate of two chapters each time. After the text has been completed, there will be discussions of such subjects as vegetarianism, pellagra, and wartime diet. Mr. PLUMMER.

LANGUAGE

(See also English.)

I. **Latin.** Pearson's *Essentials of Latin*. Emphasis will be laid on method of teaching the subject. Mr. HARPER.

II. **Latin: Advanced Class.** Cæsar or Æneid as class prefers. Method of teaching the subject will be emphasized. Mr. HARPER.

III. **Elementary French.** Reading and oral practice with elements of grammar. This course is intended for students who have no previous knowledge of French. Practice in the pronunciation and hearing of French will be afforded by means of reading, dictation, and, as early as practicable, the recitations will be conducted at least partially in French. Texts: Aldrich and Foster's *Foundations of French*; *Le Premier Livre*, Meras; *Le Petit Vocabulaire*, Meras. Miss DINWIDDIE.

IV. **French—Teachers' Course.** French in secondary schools, study of material, lectures, recitations and papers. This course aims to organize the various kinds of knowledge necessary for teaching French in secondary schools. It deals with the subject matter and with the apparatus of French teaching, giving practical work in the most approved modern methods of teaching the language. Texts: *Conversational Reader*, Bierman and Frank; *Trois Contes Choisis*, Daudet; *Huit Contes Choisis*, Maupassant. Miss DINWIDDIE.



NINETEEN-ELEVEN DORMITORY



PATERSON HALL—THE AGRICULTURAL BUILDING

V. **German.** A practical course in a language which is important for literary purposes and as a gateway to much of the most valuable technical material in philology, medicine, chemistry, and other sciences. Textbooks, Joynes and Wesselhoeft's *German Grammar* (or Voss's *Essentials of German*, new edition) and Bacon's *Im Vaterland*. Mr. HORNADAY.

MATHEMATICS

I. **Arithmetic.** This course is for advanced pupils and for teachers. Five hours per week for six weeks. One purpose of this course will be to discover the best methods of teaching arithmetic in the grammar grades. The four fundamental principles—addition, subtraction, multiplication, and division—will be applied in practical problems from everyday life. Lectures, individual assignments, lesson plans, and standard tests will be given a place in the course. Model lessons will be worked out by members of the class. Time will be given for criticisms and general discussions. Mr. SENTELLE.

II. **Algebra: Beginners' Class.** This course is intended for those who have never studied algebra, but who wish to prepare themselves for better work as teachers by widening their knowledge of Mathematics. The course will begin with the most elementary principles and concepts of algebra and will cover the ground ordinarily completed in one year of high school work. To prepare this work will require two or three hours of study daily out of class. Daily. Mr. AMICK.

III. **Review of High School Algebra.** The general purpose of this course is to give to the teachers of high school algebra a thorough review of the work beginning with simple equations. The ground covered in the six weeks is that of a full year's work in the high school, so that a fair knowledge of algebraic principles and methods is presupposed. The following subjects will be studied: simple equations, involution, evolution, exponents, radicals, quadratics, and simultaneous quadratics. Special emphasis will be laid upon the solution of problems illustrating the principles. Textbook, Wells' *High School Algebra*. Daily. Mr. AMICK.

IV. **Advanced Algebra.** In this course the work will begin with quadratic equations and will proceed with the study of the binomial formula, the different progressions, convergence and divergence of series and a special study of the binomial, exponential, and logarithmic series. The course will be closed by a study of inequalities, determinants, and the theory of equations. The first few lessons will be devoted to review work so that the course may be made intelligible to those teachers who have some acquaintance with algebra. Text, Reitz and Crathorne's *Treatise on Algebra*. Daily. Mr. AMICK.

V. **Plane Geometry.** This course is designed for students who wish to repair deficiencies, or to prepare themselves for teaching geometry, or who wish to prepare for college entrance. The course will be a rapid survey of all the principal parts of the plane geometry, and presupposes some knowledge of the subject. However, the work will be of such a nature that those who have never studied the subject will be able to make the course by doing some two or three hours of work out of class daily. There will be discussed the logical connection of the theorems and processes of elementary geometry; the definitions and the fundamental concepts; the axioms of geometry and

the nature of geometrical proof; the systematic study of the original solution and the methods of attack of geometrical problems; the theory of geometric graphical solution; and the problems pertaining to all the principles studied. Text, Wells and Hart's *Plane Geometry*. Daily. Mr. AMICK.

MUSIC

I. **Public School Music, for Primary Grade.** Sight singing, ear training, rhythm; the rote song, how to present it; its educational values and aims; how to train and develop the child's voice. Mr. OWEN.

II. **Public School Music, for Intermediate Grade.** Sight singing, psychology of the voice, rhythmic problems in sight singing intervals, dictation, vowel formation and poise. Mr. OWEN.

III. **Normal Course in Piano Teaching.** This course will consist of a daily lectures on the following subjects: (1) Exercises for touch, (2) the trill, (3) scales, major and minor, (4) common chords and arpeggios, (5) octaves and double thirds, (6) the pedal, (7) dominant seventh and diminished seventh chords, chromatic exercises. Each lecture will be illustrated with practical examples. There will be on exhibition a selection of desirable teaching material for Grades 1, 2, 3, and 4, from the classic and modern schools, with illustrations and explanations. Five hours a week. Miss DOWN.

NOTE. For more advanced work, private lessons will be given by Mr. Owen in deep breathing, roulades, sustained singing scales, vowel formation, dictation, principles of Italian, French, and German songs and arias; also private lessons in piano and organ.

PHYSIOLOGY AND HYGIENE

I. Lectures will be given by Drs. RANKIN, COOPER, McBRAYER, GORDON, WASHBURN, CROUCH, and SHORE, and Mr. BOOKER of the State Board of Health, and a representative of the Federal Children's Bureau.

II. First aid, by a member of the Red Cross Society.

SCHOOL LAW

I. **School Law and Civics.** The aim of this course is to prepare the teacher to train the children in citizenship, and also to qualify the teacher to become a leader in the civic life of the community. The course in civics will be based on the adopted book, Peelle's *Civil Government*, and will consist of textbook assignments, parallel readings, and class discussions. The sections of the school law pertaining to the duties of teachers will receive special emphasis, and the sections in regard to voting special taxes, the establishment of farm-life and county high schools, and the enforcement of the compulsory attendance law will be studied carefully. An incidental purpose of the course will be to prepare teachers to take the State and county examinations on school law and civil government. Five hours a week. Mr. RANSON.

SCIENCE

(See also Agriculture, Geography and Geology, Physiology and Hygiene.)

I. **General Science.** A course planned to meet the needs of the rural schools. The impossibility of giving satisfactory courses in all the sciences at the rural schools is recognized. Yet no class of pupils offer a better oppor-

tunity for the study of the elementary facts of science. The country boy or girl sees on every side phenomena of nature which he does not understand and to which too frequently he gives no thought. A scientific interpretation of these phenomena not only increases the ability of the man to adapt himself to his environment and to use the forces of nature most effectively but adds much to the pleasure of life in the country. The subjects taken up in this course will be: Air, its characteristics and effects on season and climate; Water and its uses; Work and Energy. The course is accompanied by demonstrations and experiments with simple apparatus. MR. W. H. BROWNE.

III. Elementary Physics. A modified or abbreviated course in College Physics cannot be given satisfactorily in the high schools; yet a knowledge of the fundamental laws of Physics should be of the greatest value to ninety-seven per cent of the high school pupils who do not go to college. These laws can be developed from the study of phenomena common in the everyday life of the pupil, and he may thereby not only learn the scientific method of studying any problem but gain beside a large fund of useful information. The course is accompanied by demonstrations and simple laboratory exercises. MR. W. H. BROWNE.

IV. Elementary Chemistry. This course will deal with the fundamental theories and laws of chemistry and with the more common elements and their compounds. The lectures will be illustrated with experiments. The work is designed to meet the needs of teachers in the high schools, and emphasis will be laid upon the connection between chemistry and life as well as upon methods of presentation and experimental demonstration of chemical processes. Textbook, McPherson and Henderson's *First Course in Chemistry*. Daily except Saturday. MR. WILLIAMS.

VIII. Elementary Botany. This course is open to teachers of botany in high schools or to those who may wish credit for entrance to College. Attention will be directed to such topics as the anatomy and function of the organs of plants, namely, roots, stems, leaves, flowers, fruits, and seeds. An attempt will further be made to become familiar with representative forms of the great groups of plants, slime molds, algae, fungi, bacteria, liverworts, mosses, ferns, and seed plants. Lecture and laboratory work. MR. WOLF.

SOCIOLOGY

II. Rural Sociology—Community Service in Principle and Practice (Lecture Course). In this course a picture of community development in North Carolina, through coöperative effort, will be presented. The records of the State Bureau of Community Service will be used to furnish concrete examples of coöperation in the regularly organized communities of the State. In addition to this, a number of men and women who have proven themselves successful community leaders will lecture before the class. MR. POE and MR. CROSBY.

WRITING

I. Palmer Method. Courses will be offered in blackboard work, critic classes, and classes in the mechanics and pedagogy of the Palmer method of business writing. Some time will also be given to conferences. MR. LONDON.

II. Berry Method. MRS. GREEN.

BOARDING ACCOMMODATIONS

ENTIRE SESSION JUNE 15-JULY 27.

Name	Board (Without Room)		Roomers		Board (Room and Table)		Preference
	No.	Rate	Num-ber in Room	Rate Each Person	No.	Rate Each Person	
		Week		Session		Week	
Mrs. J. C. Allison, 117 Hillcrest Rd.*	4		1	\$ 5.00	\$ 10.00		Men.
Mrs. S. A. Blue, Hillsboro Rd.*	13		1	1.50	2.00		Men.
Mrs. J. D. Davis, 12 Enterprise St.	30	4.25	2	3.50	15.00		
			2	1.25	7.50		
			4	1.00	6.00		
			1	3.00	17.50	7.00	40.00
			2	2.50	12.50	5.00	30.00
			4	2.25	10.00	4.50	27.50
Mrs. M. E. Gardner, 212 S. Harrington St.*	4		1	3.00	18.00		
			2	2.00	12.00		
			4	1.25	7.50		
Mrs. Thos. M. Jordan, 532 N. Wilmington St.*	10		1	4.00	22.50		
			2	3.75	15.00		
			4	1.50			
Mrs. H. V. Joslin, 207 Park Drive*	20	4.50	1	1.50	9.00	4	7.00
Mrs. C. R. Lee, 118 Groveland Ave.			2	1.50	9.00	2	6.50
Carleton F. Miller, 116 Groveland Ave.			5	1.40	9.00		39.00
Mrs. I. Mack Pittenger, 1903 Park Drive*	8		1	3.50	18.50		
			2	2.50	13.50		
			4	2.00	10.00		
Mrs. Hinson Pos, 116 Woodburn Rd.*	6		2	2.00	10.00		Women.
Mrs. C. C. Rich, 15 Maiden Lane.	20	4.00	1				
Mrs. Fannie W. Smith, 213 Hillsboro St.*	20	7.00	1			8	10.00
Mrs. L. G. Yorbby, 7 Maiden Lane.			2				9.00
J. L. Skinner, 211 Groveland Ave.	4		4	1.25	7.50		Men.
Mrs. W. A. Withers, 403 Park Ave.	4		1	2.00	10.00		
			2	1.50	7.50		
Mrs. C. S. Parker, Smith Street.	3		1	2.00	12.00		
Mrs. W. J. Crews, 132 Park Ave.	2		2	1.75	10.00		Men.
	20	4.00	1	2.50	12.50		
			2	1.60	8.00		

*Raleigh (not West Raleigh), N. C.