

NINTH ANNUAL CATALOGUE

OF THE

NORTH CAROLINA COLLEGE

OF

AGRICULTURE AND MECHANIC ARTS,

RALEIGH.

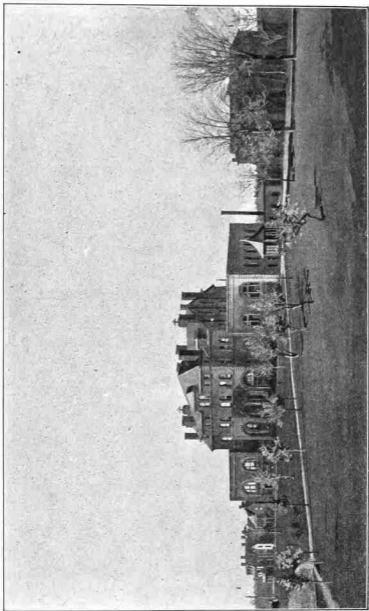
1897-1898.

FALL TERM BEGINS THURSDAY, SEPTEMBER 1, 1898.

RALEIGH:

GUY V. BARNES, PRINTER TO COUNCIL OF STATE.

1898.



COLLEGE AND GROUNDS.

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TABULAR ALMANAC.

1897.							1898.							1899.													
JULY.							JANUARY.							JULY.													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	2	3	4	5	6	7	8	3	4	5	6	7	8	9	1	2	3	4	5	6	7
4	5	6	7	8	9	10	9	10	11	12	13	14	15	10	11	12	13	14	15	16	8	9	10	11	12	13	14
11	12	13	14	15	16	17	16	17	18	19	20	21	22	17	18	19	20	21	22	23	15	16	17	18	19	20	21
18	19	20	21	22	23	24	23	24	25	26	27	28	29	24	25	26	27	28	29	30	22	23	24	25	26	27	28
25	26	27	28	29	30	31	30	31						31							29	30	31				
AUGUST.							FEBRUARY.							AUGUST.													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5		1	2	3	4	5	6	1	2	3	4	5	6	7		
8	9	10	11	12	13	14	6	7	8	9	10	11	12	7	8	9	10	11	12	13	5	6	7	8	9	10	11
15	16	17	18	19	20	21	13	14	15	16	17	18	19	14	15	16	17	18	19	20	12	13	14	15	16	17	18
22	23	24	25	26	27	28	20	21	22	23	24	25	26	21	22	23	24	25	26	27	19	20	21	22	23	24	25
29	30	31					27	28						28	29	30	31				26	27	28				
SEPTEMBER.							MARCH.							SEPTEMBER.													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	1	2	3	4	5						1	2	3					1	2	3	
5	6	7	8	9	10	11	6	7	8	9	10	11	12	4	5	6	7	8	9	10	5	6	7	8	9	10	11
12	13	14	15	16	17	18	13	14	15	16	17	18	19	11	12	13	14	15	16	17	12	13	14	15	16	17	18
19	20	21	22	23	24	25	20	21	22	23	24	25	26	18	19	20	21	22	23	24	19	20	21	22	23	24	25
26	27	28	29	30			27	28	29	30	31			25	26	27	28	29	30		26	27	28	29	30	31	
OCTOBER.							APRIL.							OCTOBER.													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2					1	2					1	2	3					1	2	3	
3	4	5	6	7	8	9	3	4	5	6	7	8	9	2	3	4	5	6	7	8	2	3	4	5	6	7	8
10	11	12	13	14	15	16	10	11	12	13	14	15	16	9	10	11	12	13	14	15	9	10	11	12	13	14	15
17	18	19	20	21	22	23	17	18	19	20	21	22	23	16	17	18	19	20	21	22	16	17	18	19	20	21	22
24	25	26	27	28	29	30	24	25	26	27	28	29	30	23	24	25	26	27	28	29	23	24	25	26	27	28	29
31							30	31						30	31						30	31					
NOVEMBER.							MAY.							NOVEMBER.													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5	1	2	3	4	5	6	7			1	2	3	4	5			1	2	3	4	5
7	8	9	10	11	12	13	8	9	10	11	12	13	14	6	7	8	9	10	11	12	7	8	9	10	11	12	13
14	15	16	17	18	19	20	15	16	17	18	19	20	21	13	14	15	16	17	18	19	14	15	16	17	18	19	20
21	22	23	24	25	26	27	22	23	24	25	26	27	28	20	21	22	23	24	25	26	21	22	23	24	25	26	27
28	29	30					29	30	31					27	28	29	30				28	29	30	31			
DECEMBER.							JUNE.							DECEMBER.													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3			1	2	3	4					1	2	3					1	2	3	
5	6	7	8	9	10	11	5	6	7	8	9	10	11	4	5	6	7	8	9	10	4	5	6	7	8	9	10
12	13	14	15	16	17	18	12	13	14	15	16	17	18	11	12	13	14	15	16	17	11	12	13	14	15	16	17
19	20	21	22	23	24	25	19	20	21	22	23	24	25	18	19	20	21	22	23	24	18	19	20	21	22	23	24
26	27	28	29	30	31		26	27	28	29	30			25	26	27	28	29	30	31	25	26	27	28	29	30	

COLLEGE CALENDAR.

1897.

Thursday, July	8,	} Examinations for admission at county-seats by county supervisors.
Thursday, September	9,	
Wednesday, September	8,	Examinations for admission.
Thursday, September	9,	Fall Terms begins; Registration Day.
Friday, September	10,	Recitations begin.
Thursday, November	25,	Thanksgiving Day.
Wednesday, December	22,	Fall Term ends.

1898.

Tuesday, January	4,	Winter Term begins; Registration Day.
Monday, February	14,	Announcement of Subjects for Theses.
Friday, March	18,	Winter Term ends.
Tuesday, March	22,	Spring Term begins; Registration Day.
Friday, May	13,	Last Day for submitting Theses.
Friday, May	20,	Senior Examinations end.
Sunday, May	29,	Baccalaureate Sermon.
Tuesday, May	31,	Annual Oration.
Wednesday, June	1,	Commencement Day.

Thursday, July	14,	} Examinations for admission at county-seats by county supervisors.
Thursday, September	8,	
Wednesday, August	31,	Examination at the College for admission.
Thursday, September	1,	Fall Term begins; Registration Day.
Friday, September	2,	Recitations begin.
Thursday, November	24,	Thanksgiving Day.
Thursday, December	22,	Fall Term ends.

1899.

Tuesday, January	3,	Winter Term begins; Registration Day.
Monday, February	13,	Announcement of Subjects of Theses.
Friday, March	17,	Winter Term ends.
Tuesday, March	21,	Spring Term begins; Registration Day.
Friday, May	19,	Last Day for submitting Theses.
Friday, May	26,	Senior Examinations end.
Friday, June	2,	Examinations end.
Sunday, June	4,	Baccalaureate Sermon.
Tuesday, June	6,	Annual Oration.
Wednesday, June	7,	Commencement Day.

HISTORY.

The Colleges of Agriculture and Mechanic Arts now doing such useful work in the United States were established by the States largely as a result of the liberality of the General Government which, in 1862, passed a law by which each State in the Union received public lands in proportion equal to thirty thousand acres for each Senator and Representative in Congress "for the endowment, support, and maintenance of at least one college, whose leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts. * * * in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

In 1887 the Legislature of North Carolina decided that the funds arising from this act should go to this College, and ground for the institution having been given by the late R. S. Pullen, of Raleigh, the work of putting up a suitable building was finished in 1889, and the College opened its doors in October of that year.

In 1890 what is known as the "Supplementary Morrill Bill" was passed by Congress. This bill makes a direct yearly appropriation from the United States Treasury to each State that maintains an Agricultural and Mechanical College.

From these two acts the College gets about two-thirds of its annual income—the other third is supplied by State appropriation. In 1889 the new institution began its work with five members in its faculty and with one building. In the eight years since elapsing, the faculty has grown to twenty-three members and the buildings have increased to twelve.

LOCATION.

The College is situated on a commanding eminence on the Hillsboro road, one of the principal highways into Raleigh, three-fourths of a mile west of the city limit. The site is in all respects a suitable one. The ground slopes away from the buildings, giving opportunity for perfect drainage, thus securing this additional requisite of healthful surroundings.

Board of Trustees.

BOARD OF TRUSTEES.

J. C. L. HARRIS, RALEIGH,
President of the Board.

<i>First Appointed.</i>	<i>Members.</i>	<i>Representatives of</i>	<i>Term Expires.</i>
1897	L. C. EDWARDS, Oxford.....	State-at-Large.....	1903
1897	J. C. L. HARRIS, Raleigh.....	State-at-Large.....	1903
1897	JAMES J. BRITT, Bakersville.....	Ninth District.....	1903
1897	JOHN W. HARDEN, JR., Raleigh.....	State-at-Large.....	1901
1897	MATT MOORE, Warsaw.....	Third District.....	1901
1897	J. Z. WALLER, Burlington.....	Fifth District.....	1901
1897	HENRY G. CONNOR, Wilson.....	Second District.....	1899
1897	JOSEPH R. CHAMBERLAIN, Raleigh.....	Fourth District.....	1899
1897	HENRY E. BONITZ, Wilmington.....	Sixth District.....	1899
1897	B. F. DIXON, King's Mountain.....	Eighth District.....	1899
1897	S. L. CROWDER, Halifax.....	State-at-Large.....	1899
1898	First District.....	1899
1898	State-at-Large.....	1899
1898	Seventh District.....	1899
1897	ALEX. Q. HOLLADAY.....	Pres. A. & M. College.	<i>Ex officio.</i>

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ALEX. Q. HOLLADAY, S. L. CROWDER.

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JOHN W. HARDEN, JR., *Chairman.*

B. F. DIXON, L. C. EDWARDS.

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and Mechanic Arts),
Instructor in Drawing and Shop Work.

Faculty and Officers.

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Superintendent of Shops.

B. S. SKINNER,
Farm Superintendent.

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Instructor in Botany.

J. M. JOHNSON,
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Instructor in Agriculture.

*L. R. WHITTED,
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J. W. CARROLL,
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Dairyman.

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Assistant in Civil Engineering.

H. W. PRIMROSE,
(B. S., N. C. College of Agriculture and Mechanic Arts),
Assistant in Chemistry.

J. L. WATSON,
(B. S., N. C. College of Agriculture and Mechanic Arts),
Assistant in Shop Work and Drawing.

MRS. SUE C. CARROLL,
Matron.

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Physician.

THE NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION.

STATION COUNCIL.

ALEX. Q. HOLLADAY, LL. D., President.

W. A. WITHERS, A. M.	Professor of Chemistry.
F. E. EMERY, M. S.	Professor of Agriculture.
W. F. MASSEY, C. E.	Professor of Horticulture.

EXPERIMENT STATION STAFF.

W. A. WITHERS, A. M., Acting Director.

W. A. WITHERS, A. M.	State Chemist.
F. E. EMERY, M. S.	Agriculturist.
W. F. MASSEY, C. E.	Horticulturist.
C. B. WILLIAMS, M. S.	Assistant Chemist.
H. K. MILLER, M. S.	Assistant Chemist.
C. D. HARRIS, B. S.	Assistant Chemist.
A. W. BLAIR, A. M.	Assistant Chemist.
J. A. BIZZELL, B. S.	Assistant Chemist.
F. G. KELLY	Assistant Chemist.
G. S. FRAPS, B. S.	Assistant Chemist.
ALEX. RHODES	Assistant Horticulturist.
C. W. HYAMS	Assistant Botanist.
J. M. JOHNSON, M. S.	Assistant Agriculturist.
F. E. HEGE	Poultryman.
B. S. SKINNER	Superintendent of Farm.
J. M. FIX	Secretary.
H. E. KING	Chief Clerk.
C. M. HUGHES, B. E.	Clerk.
MISS M. S. BIRDSONG	Stenographer.
MRS. L. V. DARBY	Stenographer.

The Director's office is in the main building of the College. Telephone No. 135 C. The street cars pass within one hundred yards of the College building.

EXPERIMENT STATION PUBLICATIONS.

These publications are prepared for the benefit of the farmers of the State, the truckers, nurserymen, stock-raisers, etc. The value of these publications to the individual receiving them depends entirely upon the amount of thought and consideration given to them. There is such a demand for them in the State, and outside, that it is not desirable to send them to those who do not wish to profit by them. They are sent cheerfully and free of charge, on request, to anyone in the State who will read and study them. Make the request on a postal card, addressed *Agricultural Experiment Station, Raleigh*.

These bulletins are different from the Monthly Bulletins published by the Department of Agriculture, application for which should be made to the Commissioner of Agriculture.

COURSES OF STUDY.

The three general courses of study offered in this institution are in Agriculture, in Engineering and in Science.

In the Freshman year, all students have the same subjects of study. These subjects are given by the following table:

FRESHMAN CLASS.

SUBJECTS.	Number of hours per week.			For brief description see	
	1st Term.	2d Term.	3d Term.	page	number
✓ Arithmetic	4	—	—	29	1
✓ Algebra	2	5	5	29	2
✓ Introductory Rhetoric	3	3	3	31	1
✓ Composition	1	1	1	31	2
✓ American History	1	1	1	32	1
✓ Human Physiology	4	—	—	22	1
✓ Soil Physics	—	4 (part)	—	23	1
✓ Market Gardening	—	4 (part)	—	23	2
✓ Elementary Morphology	—	—	2	23	3
✓ Elements of Agriculture	—	—	2	22	2
✓ Elementary Physics	3	3	3	26	1
✓ Free Hand Drawing	3	—	—	27	2a
✓ Elementary Mechanical Drawing	—	3	3	27	2b
✓ Carpenter Shop	4	4	4	27	3a

At the beginning of the Sophomore year the courses begin to specialize, and the student selects the course best fitted to his needs. With each of the higher classes, more time is given to the technical studies of the course. A thesis is required for graduation.

THE COURSE IN AGRICULTURE.

The technical work of this course includes work in the departments of Agriculture, Horticulture and Chemistry.

Inasmuch as this is not a manual labor training school, no attempt is made to educate a young man to be *simply* a farm laborer, but he receives, in addition to his practical work, a higher training that will fit him for a life of more extended usefulness.

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SOPHOMORE CLASS.

SUBJECTS.	Number of hours per week.			For brief description see	
	1st Term.	2d Term.	3d Term.	page	number
✓ Breeds of Live Stock.....	—	2 (part)	—	22	4
✓ Stock Feeding.....	—	2 (part)	—	22	5
✓ Zoology.....	—	—	2	22	6
✓ Agricultural Practice.....	—	2	4	22	3 ^d
✓ Structural Botany.....	2	2	—	23	4
✓ Entomology.....	—	2	—	24	6
✓ Pomology.....	3	4	—	24	5
✓ Systematic Botany.....	—	—	4	24	7
✓ Inorganic Chemistry.....	3	3	3	25	1
✓ Experimental Chemistry.....	4	4	4	25	2
✓ Geometry.....	5	5	4	29	3
✓ Trigonometry.....	—	—	2	30	4
✓ Architecture.....	3	—	—	30	13
✓ Architectural Drawing.....	5	—	—	30	14
✓ American Literature.....	1	1	1	31	3
✓ Rhetoric.....	2	2	2	31	4
✓ Ancient and Mediaeval History.....	1	1	1	32	2
✓ Book-keeping.....	—	1	1	31	15

JUNIOR CLASS.

✓ Staple Crops.....	3 (part)	—	—	22	7
✓ Veterinary Science.....	3 (part)	—	—	23	8
✓ Dairying.....	—	3	—	23	9
✓ Dairy Bacteriology.....	—	—	3	23	10
✓ Agricultural Practice.....	4	8	—	22	3 ^b
✓ Physiological Botany.....	4 (part)	—	—	24	8
✓ Forestry.....	4 (part)	—	—	24	9
✓ Vegetable Histology.....	4	—	—	24	10
✓ Palaeobotany.....	—	2	—	24	11
✓ Green-house Propagation.....	—	2	—	24	12
✓ Cryptogamic Botany.....	—	—	2	24	13
✓ Agricultural Chemistry.....	3	3	3	25	3
✓ Industrial Chemistry.....	—	—	2	25	4
✓ Qualitative Analysis.....	6	6	6	25	5
✓ Surveying.....	—	2	2	30	9
✓ Surveying, Field Work.....	—	—	9	30	10
✓ Trigonometry.....	3	—	—	30	4
✓ Logic.....	3	—	—	31	5
✓ Studies in Prose.....	—	3	—	31	6
✓ Poetic Study.....	—	—	3	31	7
✓ English History.....	1	1	1	32	3

SENIOR CLASS.

SUBJECTS.	Number of hours per week.			For brief description see	
	1st Term.	2d Term.	3d Term.	page	number.
✓ Meteorology	5	—	—	23	11
✓ Soil Physics	—	5	—	23	12
✓ Stock Breeding	—	—	5 (part)	23	13
✓ Agricultural Economics	—	—	5 (part)	23	14
✓ Agricultural Practice	4	4	4	22	3c
✓ Horticulture	2	—	—	24	14
✓ Floriculture	—	2	—	24	15
✓ Landscape Gardening	—	—	4	24	16
✓ Horticultural Practice	4	4	4	24	17
✓ Organic Chemistry	3	3	3	25	6
✓ Introductory Quantitative Analysis	8	—	—	25	7
✓ Advanced Quantitative Analysis	—	8	8	25	8
✓ History of English Literature	3	3	3	32	8
✓ Ecclesiastical and Modern History	1	1	1	32	4
✓ Military Tactics	1	1	1	33	1
Thesis.					

THE COURSE IN ENGINEERING.

The course in Engineering is designed to prepare the student to make the most of his subsequent experience, so that he may be soonest fitted to meet the demands of modern practice as an engineer, as a draughtsman, as a practical mechanic, or as an electrician.

The technical work is included in the departments of Mechanical, Civil and Electrical Engineering, and toward the end of the course the student is allowed to specialize somewhat in one of these departments.

SOPHOMORE CLASS.

SUBJECTS.	Number of hours per week.			For brief description see	
	1st Term.	2d Term.	3d Term.	page	number.
Architecture	3	—	—	30	13
Architectural Drawing	5	5	—	30	14
Mechanical Drawing	—	2	5	27	2c
Inorganic Chemistry	3	3	3	25	1
Experimental Chemistry	4	4	4	25	2
Geometry	5	5	4	29	3
Trigonometry	—	—	2	30	4
American Literature	1	1	1	31	3
Rhetoric	2	2	2	31	4
Ancient and Mediaeval History	1	1	1	32	2
Book-keeping	—	1	1	31	15
Turning and Pattern Shop	6	6	6	27	3b

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JUNIOR CLASS.

SUBJECTS.	Number of hours per week.			For brief description see	
	1st Term.	2d Term.	3d Term.	page	number
Kinematics	1	—	—	27	1
Steam Engine	3	2	—	28	5
Valve Gears	2	2	—	28	6
Drawing and Designing	5	5	5	27	2d
Forge Shop	9	9	—	27	4a
Mechanics	3	—	—	30	7
Graphical Statics	—	3	—	30	8
Surveying	—	2	2	30	9
Surveying, Field Work	—	—	9	30	10
Elementary Electricity and Magnetism	—	—	3	26	2
Physical Laboratory	—	—	2	26	7a
Industrial Chemistry	—	—	2	25	4
Trigonometry	3	3 (part)	—	30	4
Analytical Geometry	—	3 (part)	3	30	5
Logic	3	—	—	31	5
Studies in Prose	—	3	—	31	6
Poetic Study	—	—	3	31	7
English History	1	1	1	32	3

SENIOR CLASS.

Analytical Mechanics	3	3	—	28	9
Strength of Materials	—	—	3	29	10
Mechanics of Machinery	—	—	2	28	8
Machine Design	4	3	3	29	11
Boiler Design	1	2	2	28	7
Hydraulics	—	—	2	30	12
Machine Shop	7	7	7	27	4b
Elementary Electricity and Magnetism	3	—	—	26	2
Electrical Laboratory	4	—	—	26	8
Mechanical Laboratory	—	4	5	29	12
Roofs, Bridges and Arches	—	3	2	30	11
Dynamo Electric Machinery	—	3	3	26	6
Electrical Engineering Laboratory	—	4	4	27	9
Calculus	4	4	—	30	6
History of English Literature	3	3	3	32	8
Ecclesiastical and Modern History	1	1	1	32	4
Military Tactics	1	1	1	33	1
Thesis					

NOTE.—Those who elect Electrical Engineering take B, other Engineers take A.

THE COURSE IN SCIENCE.

This course affords the student an opportunity to devote his time to special work in Entomology, Zoology, Botany, Agricultural and Analytical Chemistry, Physics, applied Electricity, applied Mathematics, etc., in addition to the general studies. During the Senior year the work is very largely elective and the subjects are arranged in groups so as to suit the needs of the student.

SOPHOMORE CLASS.

SUBJECTS.	Number of hours per week.			For brief description see	
	1st Term.	2d Term.	3d Term.	page	number
Breeds of Live Stock.....	—	2 (part)	—	22	4
Stock Feeding.....	—	2 (part)	—	22	5
Zoology.....	—	—	2	22	6
Agricultural Practice.....	—	2	4	22	3 ^a
Structural Botany.....	2	2	—	23	4
Entomology.....	—	2	—	24	6
Pomology.....	3	4	—	24	5
Systematic Botany.....	—	—	4	24	7
Inorganic Chemistry.....	3	3	3	25	1
Experimental Chemistry.....	4	4	4	25	2
Geometry.....	5	5	4	29	3
Trigonometry.....	—	—	2	30	4
Architecture.....	3	—	—	30	13
Architectural Drawing.....	5	—	—	30	14
American Literature.....	1	1	1	31	3
Rhetoric.....	2	2	2	31	4
Ancient and Mediaeval History.....	1	1	1	32	2
Book-keeping.....	—	1	1	31	15

JUNIOR CLASS.

SUBJECTS.	Number of hours per week.			For brief description see	
	1st Term.	2d Term.	3d Term.	page	number
Physiological Botany	4 (part)	—	—	24	8
Forestry	4 (part)	—	—	24	9
Vegetable Histology	4	—	—	24	10
Palaeobotany	—	2	—	24	11
Green-house Propagation	—	2	—	24	12
Cryptogamic Botany	—	—	2	24	13
Agricultural Chemistry	3	3	3	25	3
Qualitative Analysis	6	6	6	25	5
Industrial Chemistry	—	—	2	25	4
Surveying	—	2	—	30	9
Mechanics	3	—	—	30	7
Elementary Electricity and Magnetism	—	—	3	26	2
Physical Laboratory	—	—	2	26	7a
Trigonometry	3	3 (part)	—	30	4
Analytical Geometry	—	3 (part)	3	30	5
Logic	3	—	—	31	5
Studies in Prose	—	3	—	31	6
Poetic Study	—	—	3	31	7
English History	1	1	1	32	3

SENIOR CLASS—CHEMICAL GROUP.

History of English Literature		3	3	3	32	8
Ecclesiastical and Modern History		1	1	1	32	4
Organic Chemistry		3	3	3	25	6
Theoretical Chemistry		—	2	2	26	10
Introductory Quantitative Analysis	required subjects.	8	—	—	25	7
Advanced Quantitative Analysis		—	8	8	25	8
Theories of Light and Heat	A	3	—	—	26	3
Theory of Electricity and Magnetism		—	3	3	26	4
Physical Laboratory		2	2	2	26	7b
Military Tactics		1	1	1	33	1
Meteorology		5	—	—	23	11
Soil Physics		—	5	—	23	12
Stock Breeding	B	—	—	5 (part)	23	13
Agricultural Economics		—	—	5 (part)	23	14
Elementary Electricity and Magnetism	C	3	—	—	26	2
Physical Laboratory		4	4	4	26	7b
Advanced Quantitative Analysis	D	10	10	10	25	8
Thesis						

NOTE.—In addition to the required subjects, A, one of the groups B,

SENIOR CLASS—PHYSICAL GROUP.

SUBJECTS.	Number of hours per week.			For brief description see	
	1st Term.	2d Term.	3d Term.	page	number
History of English Literature.....	3	3	3	32	8
Ecclesiastical and Modern History.....	1	1	1	32	4
Theories of Light and Heat	3	—	—	26	3
Theory of Electricity and Magnetism.....	—	3	3	25	4
Elementary Electricity and Magnetism.....	3	—	—	26	2
Theoretical Mechanics.....	—	3	3	26	5
Physical Laboratory.....	6	6	6	26	7 ^b
Introductory Quantitative Analysis.....	8	—	—	25	7
Advanced Quantitative Analysis.....	—	8	8	25	8
Military Tactics.....	1	1	1	33	1
Calculus.....	4	4	2	30	6
Organic Chemistry.....	3	3	3	25	6
Thesis.....					

NOTE.—In addition to the required subjects, E, one of the two groups, F or G, must be taken.

SENIOR CLASS—BIOLOGICAL GROUP.

History of English Literature.....	required subjects.	3	3	3	32	8
Ecclesiastical and Modern History.....		1	1	1	32	4
Horticultural Practice.....	H	4	4	4	24	17
Organic Chemistry.....		3	3	3	25	6
Biology.....	I	6	6	6	24	18
Military Tactics.....		1	1	1	33	1
Meteorology.....	J	5	—	—	23	11
Soil Physics.....		—	6	—	23	12
Stock-Breeding.....	I	—	—	5 (part)	23	13
Agricultural Economics.....		—	—	5 (part)	23	14
Agricultural Practice.....	J	4	4	4	22	3 ^c
Chemical Laboratory.....		12	12	12	25	7&8
Thesis.....						

NOTE.—In addition to the required subjects, H, one of the groups I or J must be taken.

POST-GRADUATE COURSES.

Post-graduate courses have been established, leading to the degrees of Master of Science (M. S.), Mechanical Engineer (M. E.), Civil Engineer (C. E.), and Electrical Engineer (E. E.).

The Faculty will recommend for advanced degrees candidates who, having taken the Bachelor's Degree at this College, in Agriculture, Science or Engineering, shall pursue for at least two years a course of study as indicated below, and shall pass the required examinations:

Candidates for the Master's degree may take their major subject in the departments of Agriculture, Horticulture, Chemistry or Physics. Minor subjects may be taken in Agricultural Analysis, Organic Synthesis, Theoretical Chemistry, Vertebrate Zoology, Veterinary Science, Cryptogamic Botany, Invertebrate Zoology, Heat, Optics, Electricity and Mechanics, two of which must be taken.

Candidates for the degrees of M. E., C. E. and E. E., may choose some special line of work in one of the Engineering departments. The professor in charge will prescribe a course made up largely of general studies and practice in the work of his department, but including also special subjects in the line chosen by the student.

A thesis embodying some special design, or the results of some original investigation, must be submitted and accepted before the final examinations are taken.

The studies will be carefully adapted to the expansion and development of the special lines of work selected by graduate students for a professional calling.

IRREGULAR WORK.

Students who are otherwise qualified may be allowed to elect certain studies from the regular courses already provided in the College, if no inconvenience result therefrom to the members of the regular class.

SUB-FRESHMAN CLASS.

A Sub-Freshman Class has been organized, to give special preparation to such young men as are unable to enter the Freshman Class, and who nevertheless desire a technical education. No county will be allowed to have more representatives in this class than it has in the House of Representatives of the General Assembly.

SUBJECTS OF INSTRUCTION.

AGRICULTURE.

PROFESSOR EMERY.

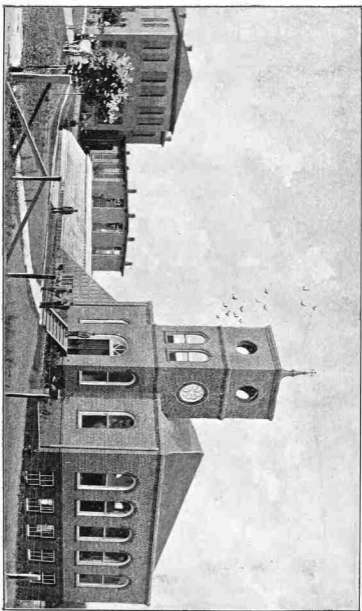
MR. JOHNSON.

MR. SKINNER.

In the instruction in Agriculture the attempt is made to present the affairs pertaining to the farm as nearly as possible in harmony with the presentation of scientific truths which the students are receiving in Chemistry, Physics, Physiology and other branches. All these are required by the intelligent Agriculturist to enable him to understand and turn to his own account, as he must constantly be doing, the natural laws of these sciences. He is taught that it is important to know the reason for every farm operation, and that this knowledge, logically applied to farm practice with diligence, will insure success.

The practice given during the regular course is educational rather intended to be of much economic value to the College. Regular laborers and students working for pay, outside of regular hours for college exercises, must be depended on for farm operations. For such work as students perform on Saturdays and regularly mornings and evenings, in the care of stock and on such other work as can be found for them to do, students are paid by the hour.

1. HUMAN PHYSIOLOGY.—*Hutchinson's Text-book*, supplemented by charts and illustrations. Four hours, first term. Required of all Freshmen.
2. ELEMENTS OF AGRICULTURE.—Recitations. Two hours, third term. Required of all Freshmen.
- 3*a*. AGRICULTURAL PRACTICE.—Work in the field, stable, dairy, and with farm machinery. Two hours, second term, and four hours, third term. Required of Sophomores in Agriculture and Science.
- 3*b*. AGRICULTURAL PRACTICE.—Continuation of 3*a*. Four hours. Required of Juniors in Agriculture.
- 3*c*. AGRICULTURAL PRACTICE.—Continuation of 3*b*. Four hours. Required of Seniors in Agriculture and in Science-I.
4. BREEDS OF LIVE STOCK.—Two hours, second term (part). Required of Sophomores in Agriculture and Science.
5. STOCK FEEDING.—Stoichiology. Two hours, second term (part). Required of Sophomores in Agriculture and Science.
6. ZOOLOGY.—Two hours, third term. Required of Sophomores in Agriculture and Science.
7. STAPLE CROPS.—Lectures. Three hours, first term (5 weeks). Required of Juniors in Agriculture.



HORTICULTURAL DEPARTMENT.

8. VETERINARY SCIENCE.—Three hours, first term (5 weeks). Required of Juniors in Agriculture.
9. DAIRYING.—Lectures. Three hours, second term. Required of Juniors in Agriculture.
10. DAIRY BACTERIOLOGY.—Russell's *Dairy Bacteriology*. Three hours, third term. Required of Juniors in Agriculture.
11. METEOROLOGY.—Recitations. Five hours, first term. Required of Seniors in Agriculture and in Science-B and -I.
12. SOIL PHYSICS.—Recitations and Lectures. Five hours, second term. Required of Seniors in Agriculture and in Science-B and -I.
13. STOCK BREEDING.—Text-Book and Notes. Five hours, third term (part). Required of Seniors in Agriculture and in Science-B and -I.
14. AGRICULTURAL ECONOMICS.—Lectures. Fertility of soils, farm machinery, farm management. Five hours, third term (part). Required of Seniors in Agriculture and in Science-B and -I.

HORTICULTURE, ARBORICULTURE AND BOTANY,

PROFESSOR MASSEY.

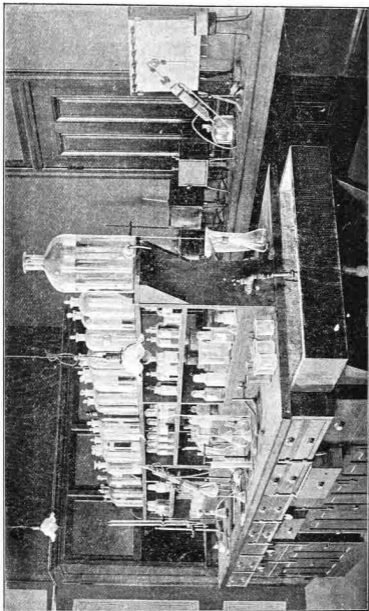
MR. HVAMS.

A thorough knowledge of the structure and physiological functions of plants being the basis of all accurate knowledge of Horticulture, special effort will be made to give thorough instruction in Botany as a branch of Biology. Systematic Botany will also receive attention, and will be taught, not by the mere memorizing from a text book, but by a practical study of plants and the characteristics upon which classification is founded. Horticulture in all its branches will be treated as advanced work, to come in after the work in science is completed, so that in the Senior year there may be an opportunity for those who wish to make a specialty of Commercial Horticulture to prepare for the work of a professional Horticulturist, by practical study of green-house propagation, the forcing of vegetables, fruits and flowers under glass, landscape gardening, road-making, the construction of horticultural buildings, and forestry.

1. SOIL PHYSICS.—Four hours, second term (part). Required of all Freshmen.
2. MARKET GARDENING.—Massey's *Trucking in the South*. Four hours, second term (part). Required of all Freshmen.
3. ELEMENTARY MORPHOLOGY.—Bailey's *Lessons with Plants*. Plant structure with practical study of natural forms. Two hours, third term. Required of all Freshmen.
4. STRUCTURAL BOTANY.—Bailey's *Lessons with Plants*. Two hours, first and second terms. Required of Sophomores in Agriculture and Science.

Subjects of Instruction.

5. POMOLOGY.—Practice. Application of principles to pomology with practice in budding, pruning and grafting. Three hours, first term; four hours, second term. Required of Sophomores in Agriculture and Science.
6. ENTOMOLOGY.—Comstock's *Elemente*. Two hours, second term. Required of Sophomores in Agriculture and Science.
7. SYSTEMATIC BOTANY.—Practice. Collection of native plants and formation of herbarium. Four hours, third term. Required of Sophomores in Agriculture and Science.
8. PHYSIOLOGICAL BOTANY.—Lectures. Four hours, first term (part). Required of Juniors in Agriculture and Science.
9. FORESTRY.—Lectures on forests, timbers and forest products. Four hours, first term (part). Required of Juniors in Agriculture and Science.
10. VEGETABLE HISTOLOGY.—Spalding's *Introductory* and Hill-house's *Translation of Strasburger*. Laboratory work with microscope. Four hours, first term. Required of Juniors in Agriculture and Science.
11. PALÆOBOTANY.—Dawson's *Geological History of Plants*. A general outline of geology, directed especially to the tracing of the development of plant life with geological periods. Two hours, second term. Required of Juniors in Agriculture and Science.
12. GREEN-HOUSE PROPAGATION.—Practice in green-house. Two hours, second term. Required of Juniors in Agriculture and Science.
13. CRYPTOGAMIC BOTANY.—Laboratory practice. Two hours, third term. Required of Juniors in Agriculture and Science.
14. HORTICULTURE.—Lectures. The principles and practices of market gardening, the culture of small fruits and vegetables out of doors and under glass, green-house management, structure of green-houses and heating apparatus. Two hours, first term. Required of Seniors in Agriculture, and in Science-I.
15. FLORICULTURE.—Lectures. Commercial culture of flowers in open ground and under glass. Two hours, second term. Required of Seniors in Agriculture and Science.
16. LANDSCAPE GARDENING.—Lectures. Laying out of grounds, and history of garden art. Four hours, third term. Required of Seniors in Agriculture, elective for Seniors in Science.
17. HORTICULTURAL PRACTICE.—Practice in field, green-house and grounds, to supplement Nos. 14, 15 and 16. Four hours. Required of Seniors in Agriculture and in Science-H.
18. BIOLOGY.—*Dodge*. Six hours. Required of Seniors in Science-H.
19. ELEMENTS OF BACTERIOLOGY.—*Abbott*. Elective for Seniors in Science, and Post-Graduates.
20. BACTERIOLOGICAL LABORATORY.—Practice. Elective for Seniors in Science, and Post-Graduates.



CHEMICAL LABORATORY.

CHEMISTRY.

PROFESSOR WITHERS.

MR. BIZZELL.

MR. PRIMROSE.

1. **INORGANIC CHEMISTRY.**—The common elements and their principal compounds are studied, together with some of the fundamental principles of the science. Due attention is given to Stoichiometry. The lectures and recitations are illustrated with experiments and the exhibition of specimens, to which reference is made. Remsen's *Introduction to the Study of Chemistry*. Three hours. Required of all Sophomores.
2. **EXPERIMENTAL CHEMISTRY.**—The student repeats for himself, under the eye of the instructor, the experiments performed in the lecture room. He records in a note book his results and his explanations of the same. Remsen and Randall's *Laboratory Guide*. Four hours. Required of all Sophomores.
3. **AGRICULTURAL CHEMISTRY.**—The lectures follow Mayer. Attention is given to a consideration of the atmosphere as a plant feeder; the mineral and organic constituents of the plant, and their functions; the soil and its relations to the plant; means of improving the soil; the preparation of manures and composts; green manuring; the composition of fodder, and the different means of curing and preserving it; chemistry of butter, of milk, etc. Three hours. Required of Juniors (or Seniors) in Agriculture.
4. **INDUSTRIAL CHEMISTRY.**—Attention is given to the more common chemical industries, as sulphuric-acid-making, bleaching, dyeing, fertilizer-making, paints, oil, gas, fuels, metallurgy of iron and other useful metals, etc. Visits are made with the class to plants in the vicinity. Two hours, third term. Required of Juniors in all courses.
5. **QUALITATIVE ANALYSIS.**—The student is taught the identification of the more common elements in unknown compounds. He is required to write the reactions involved. Caldwell's *Chemical Analysis*. Six hours. Required of Juniors in Agriculture and Science.
6. **ORGANIC CHEMISTRY.**—*Remsen*. Three hours. Required of Seniors (or Juniors) in Agriculture, and of Seniors in Science.
7. **INTRODUCTORY QUANTITATIVE ANALYSIS.**—*Caldwell*. The student is taught the use of the balance and familiarized with a few of the more common volumetric and gravimetric determinations. Eight hours, first term. Required of Seniors in Agriculture and Science.
8. **ADVANCED QUANTITATIVE ANALYSIS.**—A continuation of 7. The student may devote his time to Agricultural, Technical or Physical Chemistry, depending upon his wishes. Eight (or more) hours, second and third terms. Required of Seniors in Agriculture and in Science-C and -E. Elective for Post-Graduates.

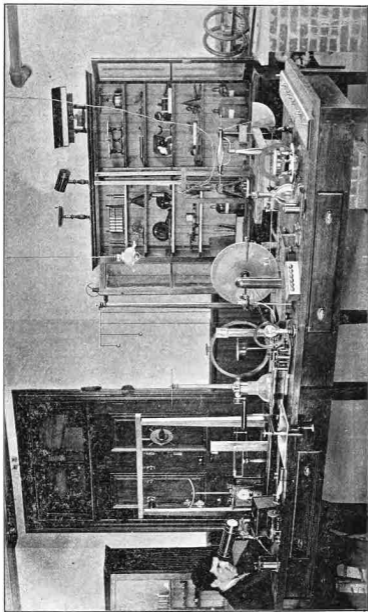
9. ORGANIC SYNTHESIS.—Orndorff's *Manual*. Seven hours. Elective for Juniors in Science and Post-Graduates.
10. THEORETICAL CHEMISTRY.—*Meyer*. Two hours. Required of Seniors in Science-A. Elective for Post-Graduates.
11. HISTORICAL CHEMISTRY.—*Von Meyer*. One hour. Elective for Seniors in Science and Post-Graduates.

PHYSICS AND ELECTRICAL ENGINEERING.

PROFESSOR WEIHE.

MR. WHITTED.

1. ELEMENTARY PHYSICS.—Matter and its properties, dynamics of fluids, general dynamics. Molecular energy: Heat, sound. Radiant Energy: Light. Three hours. Required of all Freshmen.
2. ELEMENTARY ELECTRICITY AND MAGNETISM.—Frictional electricity, magnetism, current electricity, electro statics, electro-magnets, thermo-electricity, heat, power and light from electric currents, induction, electro-chemistry. Three hours, third term. Required of Juniors in Science and Engineering. Three hours, first term. Required of Seniors in Science-C and -E.
3. THEORIES OF LIGHT AND HEAT.—Light: Reflection, refraction, spectrum analysis, interference, polarization, optical instruments. Heat: Thermometry, calorimetry, properties of gases, thermodynamics. Three hours, first term. Required of Seniors in Science-A and -E.
4. THEORY OF ELECTRICITY AND MAGNETISM. Three hours, second and third terms. Required of Seniors in Science-A and E.
5. THEORETICAL MECHANICS.—Laws of motion, harmonic motion, statics, moments of inertia, pendulum, elasticity, hydro-mechanics. Three hours, second and third terms. Required of Seniors in Science-E.
6. DYNAMO ELECTRIC MACHINERY.—Electro-magnets, magnetic properties of iron, magnetic circuits, characteristic curves, efficiencies. Three hours, second and third terms. Required of Seniors taking Electrical Engineering.
- 7^a. PHYSICAL LABORATORY.—Weighing, determination of density, measurement of length, area and volume, parallelogram of forces and couples, law of pendulum. Two hours, third term. Required of Juniors in Science and Engineering.
- 7^b. PHYSICAL LABORATORY.—Thermometry, specific heats, co-efficient of expansion, curvature of lenses, laws of reflection and refraction, polarization, velocity of sound, electric and magnetic measurements. Two hours. Required of Seniors in Science-A. Six hours. Required of Seniors in Science-C and -E.
8. ELECTRICAL LABORATORY.—Measurements of resistance, currents, electro-motive force, induction and capacity. Four hours, first term. Required of Seniors taking Engineering.



PHYSICAL LABORATORY.

9. ELECTRICAL ENGINEERING LABORATORY.—Calibration of measuring instruments, measurements on electric machinery. Continuation of 8. Four hours, second and third terms. Required of Seniors taking Electrical Engineering.

MECHANICAL ENGINEERING.

PROFESSOR SCRIBNER.

MR PRITCHETT. MR PARK.

MR. WATSON

1. KINEMATICS.—Elementary combinations, pulleys and belts, link work, gearing, etc. Goodeve's *Elements of Mechanism*. One hour, first term. Required of Juniors in Engineering.
2. FREE-HAND DRAWING.—An elementary drill in the use of the pencil, beginning with simple forms. Sketches of objects, usually some piece of a machine. Three hours, first term. Required of all Freshmen.
- 2b. ELEMENTARY MECHANICAL DRAWING.—Use of instruments. Drawing practice on elementary machine pieces. Elementary projections. Drawings made to scale, from working sketches of pieces of machines. Three hours, second and third terms. Required of all Freshmen.
- 2c. MECHANICAL DRAWING.—Isometric sketches from Mechanical drawings. Elements of machine designs. Working sketches and drawings of simple machine parts from the model. Shadow lines. Two hours, second term; five hours, third term. Required of Sophomores in Engineering and Science.
- 2d. DRAWING AND DESIGNING.—Making working sketches, finished drawings, tracings and blue prints, from the tools and machines in the laboratories. Designing parts of tools or some piece of mechanism. Five hours. Required of Juniors in Engineering.
- 3a. CARPENTER SHOP.—Bench work in wood. Exercises made from working drawings involving use of various tools, fitting of joints, etc. Making and finishing simple articles. Four hours. Required of all Freshmen.
- 3b. TURNING AND PATTERN SHOP.—Use of wood-working machinery, exercises from working drawings made on lathes and other tools, principles of pattern-making. Six hours. Required of Sophomores in Engineering.
- 4a. FORGE SHOP.—Smith work in iron and steel. Exercises from drawings, involving forging, welding, tempering, etc. Nine hours, first and second terms. Required of Juniors in Engineering.
- 4b. MACHINE SHOP.—Machine work in iron, steel, brass, etc. Exercises made from drawings on various machine tools. Construction

- of parts of a steam engine, dynamo or some other machine, or of laboratory apparatus involving machine tool work. Seven hours. Required of Seniors in Engineering.
5. STEAM ENGINE. Descriptive study of Engines and Boilers, covering the details of cylinders, pistons, valves, connecting-rods, bed plates, foundations, and the ordinary types of boilers with their settings. Holmes' *The Steam Engine*, supplemented by sketching from cuts, drawings, and such engines and boilers as are accessible. Three hours, first term; two hours, second term. Required of Juniors in Engineering.
 6. VALVE-GEARS.—General theory of the slide-valve and link motions, and its application in the study and design of the valve mechanism of steam engines; problems and exercises. McCord's *The Slide Valve*. Two hours, first and second terms. Required of Juniors in Engineering.
 7. BOILER DESIGN.—Value of fuels, determination of proper proportions for grate and heating surfaces, area and length of flues and tubes, diameter and thickness of shell, arrangement and proportions of stays, etc., for various forms of boilers. Making sketches and working drawings from original designs. Each student is required to design every part of a boiler after one of the well-known types, stationary, marine or locomotive (no two having the same), and to make complete working drawings and tracings. Peabody and Miller's *Steam Boilers*, supplemented by lectures. One hour, first term; two hours, second and third terms. Required of Seniors in Engineering.
 - 7a. STEAM ENGINE DESIGN.—Determination of the proper proportions for cylinders, valves, pistons, rods, shafts, fly-wheels, etc. Making rough sketches and working drawings from original designs. Unwin's *Machine Design*, Part II. Each student is required to design the principal parts of an engine after one of the well-known types, calculating the parts when the question of strength enters, and following the general design of the chosen type when the proportions are matters of experience. Two hours, for Post-Graduates.
 8. MECHANICS OF MACHINERY.—Application of the laws of forces to machines, determination of motive or driving forces, including considerations of acceleration, inertia, friction, wear and efficiency by use of analytical and graphical methods; solution of problems, lecture notes and reference books. Two hours, third term. Required of Seniors and Post-Graduates in Engineering.
 9. ANALYTICAL MECHANICS.—Nature and measure of forces, moments, conditions of equilibrium, moment of inertia, laws of motion, constraining and accelerating forces, dynamics of a rigid body, momentum and impact, work, power, friction, application of principles to various engineering problems. Bowser's *Analytical Mechanics*. Three hours, first and second terms. Required of Seniors in Engineering.

10. STRENGTH OF MATERIALS.—Study of materials, law of stress and strain, bending and resisting moments, shear and moment diagrams, shear and elastic curves of cantilever, simple, restrained and continuous beams, column formulas, torsion, maximum internal stresses, common flexure theory tested by experiment, problems in beams, analysis and design, specifications. Merriman's *Mechanics of Materials*. Three hours, third term. Required of Seniors in Engineering.
11. MACHINE DESIGN.—Complete design and drawing of some piece of mechanism, involving cam motion, gearing, etc., design of some piece of machinery, such as a punch, shears, rivetting machine, crane, pump, hoist, water-motor, etc., studies and sketches of existing machines, determination of dimensions according to practice. *Unwin, Reuleaux, Kent, Haswell, Klein, Weisbach, Richards*, etc. Four hours, first term; three hours, second and third terms. Required of Seniors and Post-Graduates in Engineering.
12. MECHANICAL LABORATORY.—Determination of leverages and velocity ratios, manipulation of laboratory apparatus, testing gauges, indicator springs, dynamometers, weirs, boilers, engines, pumps, investigation of efficiencies of hoists, screws, etc., tests of materials for strength, co-efficient of friction. Four hours, second term; five hours, third term. Required of Seniors and Post-Graduates taking Mechanical Engineering.
13. THERMODYNAMICS.—Mechanical theory of heat. Application to steam, air and gas engines, and refrigerating machinery. Two hours, for Post-Graduates.
14. HYDRODYNAMICS.—The design of reaction and impulse turbines, measurement of flowing water, description and discussion of experiments. Hydraulic pressure engines. *Bodmer's Hydraulic Motors*. Two hours, for Post-Graduates.

MATHEMATICS AND CIVIL ENGINEERING.

PROFESSOR RIDDICK.

MR. FRANCKS.

MR. WRIGHT.

MR. CLARK.

1. ARITHMETIC.—Begin with decimal fractions and complete the subject. Four hours, first term. *Milne's Standard Arithmetic*. Required of all Freshmen.
2. ALGEBRA.—To general theory of equations. Two hours, first term; five hours, second and third terms. *Wells' Higher Algebra*. Required of all Freshmen.
3. GEOMETRY.—Plane and solid. Five hours, first and second terms; four hours, third term. *Wentworth's Plane and Solid Geometry*. Required of all Sophomores.

4. TRIGONOMETRY.—Plane and spherical. Wentworth's *Trigonometry*. Two hours, third term. Required of all Sophomores. Three hours, first term. Required of all Juniors. Three hours, second term (part). Required of all Juniors in Science and Engineering.
5. ANALYTICAL GEOMETRY.—Conic sections, higher plane curves, geometry of three dimensions, surfaces of revolution. Three hours, second term (part) and third term. Nichols' *Analytical Geometry*. Required of Juniors in Engineering and Science.
6. CALCULUS.—Differential and integral. Four hours, first and second terms. Taylor's *Elements of Calculus*. Required of Seniors in Engineering and in Science-F. Two hours, third term. Required of Seniors in Science-F.
7. MECHANICS.—Kinematics, kinetics, work, friction, energy, momentum, composition and resolution of forces, moments. Three hours, first term. Wood's *Elementary Mechanics*. Required of Juniors in Engineering and Science.
8. GRAPHICAL STATICS.—Determination of stresses in frame structures by the graphic method. Three hours, second term. Lectures and original problems. Required of Juniors in Engineering.
9. SURVEYING.—Land surveying, leveling, elements of triangulation, topographical surveying, railroad surveying, road-making. Two hours, second and third terms. Wentworth's *Surveying*, Lectures. Required of Juniors in all courses.
10. SURVEYING, FIELD WORK.—Use of instruments (compass, transit, level and plane table). Practical work in land surveying, topography, leveling, railroad surveying, working up notes and platting. Nine hours, third term. Required of Juniors in Engineering and Agriculture.
11. ROOFS, BRIDGES AND ARCHES.—Determination of stresses in roof and bridge trusses by the analytical method, design and construction of arches, elements of bridge design. Three hours, second term; two hours, third term. Merriman's *Roofs and Bridges*. Required of Seniors taking Civil Engineering or Mechanical Engineering.
12. HYDRAULICS.—Methods of measuring flow of streams, laws governing flow in pipes and conduits, determination of water-power in streams, testing of hydraulic motors. Two hours, third term. Text-book, Merriman's *Hydraulics*. Required of Seniors in Engineering.
13. ARCHITECTURE.—Building materials, method of constructing buildings, plans, specifications, bill of materials, estimate of cost, design of buildings. Lectures. Three hours, first term. Required of Sophomores in all courses.
14. ARCHITECTURAL DRAWING.—Drawings from a building already constructed, design of a dwelling, detail and perspective drawings.

Five hours, first term required of all Sophomores. Five hours, second term. Required of Sophomores in Engineering.

15. BOOKKEEPING.—The work in the text-books supplemented by numerous original examples and sets for practice. One hour, second and third terms. Required of all Sophomores.

ENGLISH.

PROFESSOR HILL.

ASSISTANT PROFESSOR BUTLER.

In the regular course, English is studied four years. It is the endeavor of this department to give each student such a practical familiarity with the English language that he will speak and write his mother tongue with accuracy and ease and be an intelligent and appreciative interpreter of its literature. The following subjects are offered for 1898-9:

ASSISTANT PROFESSOR BUTLER.

1. INTRODUCTORY RHETORIC. Hill's *Foundations*. Drill on the forms of the language, and the formation of correct and forcible sentences, study of plans in narration and description. Three hours. Required of all Freshmen.

PROFESSOR HILL.

2. COMPOSITION.—Written exercises required weekly. Themes are drawn largely from standard works read in class. Students are taught to plan all work, and every effort is made to develop their constructive and imaginative faculties. One hour. Required of all Freshmen.
3. AMERICAN LITERATURE.—By means of text-books and by parallel reading, students are introduced to what is best in American literature. They study books at first hand. One hour. Required of all Sophomores.
4. RHETORIC.—Genung's *Practical Rhetoric*. Painstaking paragraphic study, study of themes in exposition and argumentation. Many exercises in planning organic parts of essay and oration. Two hours. Required of all Sophomores.
5. LOGIC.—Jevons's *Elements* and Gregory's *Practical Logic*. Much attention paid to practical exercises. Three hours, first term. Required of all Juniors.
6. STUDIES IN PROSE.—Hart's *DeQuincey*, Carlyle's *Burns*, Thurber's *Addison's*, Garnett's *English Prose*. In a general way Minto's plan of prose study is followed. Three hours, second term. Required of all Juniors.
7. POETIC STUDY.—Versification, lectures on dramatic art. Dowden's *Primer of Shakspeare*, Thayer's *English Plays*, Moulton's *Shakspeare as a Dramatic Artist*, Tennyson's *Princess*, Genung's *In Memoriam*. Three hours, third term. Required of all Juniors.

8. HISTORY OF ENGLISH LITERATURE.—The development of our literature is studied in its great periods, and through its representative men. Much parallel reading is required. Three hours. Required of all Seniors.

HISTORY.

PRESIDENT HOLLADAY.

Students are given a familiar knowledge of the history of their own country and State, and an outline of general history, both ancient and modern. They are also encouraged and guided in outline readings on special subjects, for which the College Library will afford ample conveniences.

1. AMERICAN HISTORY.—The entire time is devoted to State and United States History. *Moore's History of North Carolina*, *Lee's History of the United States*. One hour. Required of all Freshmen.
2. ANCIENT AND MEDIEVAL HISTORY.—History of Egypt, Assyria, Phoenicia, the Hebrew Nation, Greece and Rome. An introduction to Modern History as far as the time of Charlemagne, comprising a brief view of the Feudal System and the Age of Chivalry. Lectures and Swinton's *Outlines of the World's History*. One hour. Required of all Sophomores.
3. ENGLISH HISTORY.—Abstracts of English History from various sources, and Green's *Short History of the English People*. One hour. Required of all Juniors.
4. ECCLESIASTICAL AND MODERN HISTORY.—Evidences of Scripture, historically considered, and a short study of the history of the nineteenth century. *Alexander's Evidences*, *Robertson's Contemporary History*. One hour. Required of all Seniors.

LATIN, FRENCH AND GERMAN.

PROFESSOR GRESHAM.

1. LATIN.—Collar and Daniell's *First Latin Book*, and Collar's *Via Latina*. Two hours. Elective for Freshmen.
2. GERMAN.—Collar's *Eysenbach German Lessons*, Super's and Van Daell's *German Readers*. Two hours. Elective for Juniors.
3. FRENCH.—Ahn's *French Method*; Castarede's *French Verb*; De Peiffer's *French Pronunciation*; Guerber's *Contes et Legendes*. Two hours. Elective for Seniors.

MILITARY SCIENCE AND TACTICS.

CAPT. JOHN C. GRESHAM, SEVENTH U. S. CAVALRY.

1. MILITARY TACTICS.—The instruction is in Infantry Drill Regulations, close and extended order, including the School of the Soldier, Company and Battalions, and embraces also recitations or lectures on Military Science. One hour. Required of all Seniors.

CADET OFFICERS.

Major: N. R. Stansel.

First Lieutenant and Adjutant: H. M. Curran.

First Lieutenant and Quartermaster: T. Sugishita.

Sergeant Major: F. C. Lamb.

Principal Musician: A. T. Smith.

Color Sergeant: H. C. Irwin, Jr.

Color Corporals: K. Jones, Jr., and J. H. Birdsong.

RANK.	COMPANY A.	COMPANY B.	COMPANY C.
Captain:	A. R. Kennedy.	A. E. Cohoon.	G. F. Syme.
1st Lieutenant:	Moore Parker.	V. B. Ramseur.	D. F. Asbury.
2d Lieutenant:	B. C. Fennell.	E. G. Smith.	M. Squires.
1st Sergeant:	F. M. Foy.	F. H. Lemly.	R. B. Sykes.
2d Sergeant:	C. L. Mann.	A. S. Lyon.	C. B. Williams.
3d Sergeant:	W. A. Syme.	O'K. W. Myers.	H. A. Huggins.
4th Sergeant:	E. Wood, Jr.	B. H. Finch.	J. E. Porter.
5th Sergeant:	W. L. Peace.	H. J. Smith.	J. E. Niemyer.
1st Corporal:	J. B. Hall, Jr.	G. H. Whiting.	M. M. Harris.
2d Corporal:	J. H. Bunn.	C. E. Moore.	Hugh Ware.
3d Corporal:	I. W. Barber.	J. W. Shore.	R. M. Wagstaff.
4th Corporal:	R. H. Morrison.	E. L. Parker.	I. B. Tucker.

NOTE.—The Battalion is organized in three Companies. The uniform of cadet gray costs \$16 85.

GENERAL INFORMATION.

EQUIPMENT AND FACILITIES.

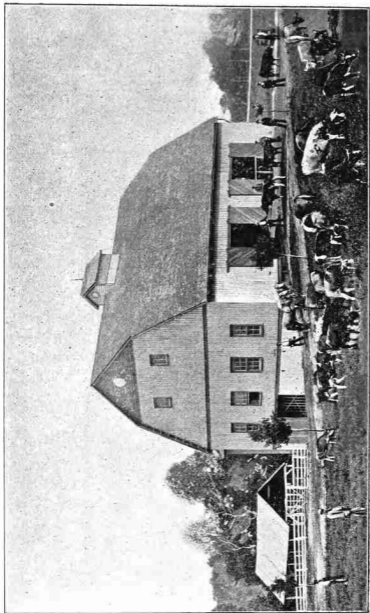
AGRICULTURE.—The equipment of the farm is as follows: Large basement barn, 50 x 72 feet, three stories; first floor occupied by cattle; second story, by horses, machinery, tools, grain bins, etc.; third story, by hay, which is elevated by a Ricker & Montgomery hay-carrier. Just outside the barn are two seventy-ton circular silos. These are connected with a No. 18 Ohio Standard feed and ensilage cutter. The power for cutting is supplied by an eight-horse power Skinner engine. The dairy building contains three rooms and a cellar, besides a large room above, used as an Agricultural Society hall, in which the students' Agricultural Society meets on Saturday nights. The dairy is supplied with a De Laval Separator, Babcock Tester, rectangular churn, butter worker, cheap heating apparatus, etc. The cellar is cemented, and has a cemented trough on one side, through which flows water from a spring situated above the dairy. This is an abundant water supply and serves a useful purpose in ripening cream.

The live stock consists of two grade percheron mares, two mules, a few specimens of pure bred Jersey and Holstein-Friesian cattle, with their grades, and purchased native and grade cows. Poland China swine will be bred pure and from high-class specimens from which breeding stock will be sold as a part of the farm productions.

HORTICULTURE.—There are five communicating green-houses separated by glass partitions so that different night temperatures can be maintained to suit the various purposes to which the houses are devoted. Here is kept a general collection of plants for botanical study and for practice in Floriculture, and in two of the houses winter forcing of vegetables and fruits is carried on, in order that the students may have practice in a line of work that is rapidly assuming commercial importance in the State. The building and green-houses are heated throughout by hot water in the most complete manner.

The entire basement of Primrose Hall is used as a Horticultural Laboratory, where practice in grafting, potting and cross fertilization of plants is constantly going on.

BOTANY.—The Botanical Laboratory is equipped with fourteen compound microscopes of the best American and European makes, a supply of dissection lenses, and chemicals and staining fluids used in histological work. The Herbarium is fairly good, and is being added to by collections and exchanges. The collection of seeds of weeds and cultivated plants is very full, and is an important factor in the acquirement of a knowledge of the appearance of various seeds and fruits. It is intended, as rapidly as possible, to fully equip the Laboratory for advanced work in bacteriology.



COLLEGE BARN.

CHEMISTRY.—The Chemical Laboratories are in the north wing of the Main Building. They are supplied with fume closets, evaporating baths, drying chambers, blast lamps, and extra tile-covered tables. The tables are of yellow heart pine, with oak tops. Each student is provided with one large and two small drawers, and one cupboard, for keeping apparatus. Each working space is provided with gas, distilled water, reagents, and a sink. The Laboratory of Quantitative Analysis will accommodate thirty-two students, sixteen of whom may work simultaneously; and the Laboratory of General Chemistry will accommodate fifty-six students, twenty-eight of whom may work simultaneously.

The Chemical Library contains a carefully-selected list of standard reference books and chemical Journals, which the more advanced students are expected to use very freely.

PHYSICS AND ELECTRICAL ENGINEERING —The recitation rooms and laboratories of the department of Physics and Electrical Engineering are situated in the basement of the principal building. They are spacious, well lighted and provided with a number of solid brick piers built directly on the ground. A dark room for general optical work, and particularly for photometric measurements, has been provided.

The equipment consists of apparatus for illustrating the principles of physical science and for instruction and practice in experiments, measurements and testing. The instruments are all up to-date and well selected, and are particularly efficient for work in electricity.

In the electrical engineering laboratory are one series, one shunt and one compound dynamo and two alternators. Connections have also been made with the electric light plant of the city of Raleigh, enabling more advanced students to do some testing with strong currents and three-phase currents. The electric light plant of the college is also used for commercial testing.

The department possesses a very good library of standard books on all branches of physics. The students are referred to them in their work.

MECHANICAL ENGINEERING.—The drawing and recitation rooms, laboratory and shops of the department of Mechanical Engineering are in the Engineering Building. They are of ample size and well lighted and are arranged to be heated either by the exhaust steam from the engine or by live steam. On the first floor are a recitation room, engineering laboratory, machine shop, forge shop, wood-turning shop, and carpenter shop, all fully equipped. On the second floor are the office, two drawing rooms, a recitation room and a library. In the latter various scientific and technical journals are kept on file, the trade circulars of prominent engineering firms, drawings and photographs of machinery, and tabulated data, as well as a large number of engineering books, the use of which is required. In this way modern engineering practice is made in a measure familiar.

The laboratory is provided with the necessary apparatus for making boiler and engine tests and other work of an experimental character. The equipment consists of a two-horse power engine, a ten-horse power

engine (both of which were built by the students), a large Ericsson hot-air pumping engine, a machine for testing belt friction, apparatus for making analyses of flue gases, a hydraulic ram, a small water-motor, a Worthington water-meter, friction brakes, weirs, indicators, planimeters, slide rules, thermometers, calorimeters, a Crosby gauge tester, tanks, scales, and other apparatus for making tests

In addition to the laboratory, there is a boiler-house equipped with three thirty-horse power boilers, several pumps, a Sturtevant blower and a jet condenser, all of which are available for experimental purposes.

The shops are equipped as follows:

The carpenter shop contains thirty-four carpenter's benches and all the necessary tools for each bench.

The wood turning shop contains ten 12-inch-swing lathes, a saw and dado machine, a 20-inch planer, a mortising and boring machine, a 30-inch band saw, a large jig saw, a 6-inch sticker, a mitering machine, a grind-stone, a steam glue pot, and six benches equipped with iron vises and all the tools necessary for pattern making. Each lathe is fully equipped with turning tools.

The forge shop contains twenty-three forges, each of which is provided with an anvil and forging tools, besides which there is a full equipment of tools for general use in the shop.

The machine shop contains a 16-inch swing Davis Egan lathe with 10-foot bed, a 14 inch Winsor lathe with 3-foot bed, a 13-inch Barnes lathe with 5-foot bed, a 24-inch upright Bickford drill press, a Brown and Sharp Universal Milling Machine with all attachments, a 20-inch by 5-foot Pease planer, a large emery tool grinding machine and six vises with benches and lockers.

The tool-room is well equipped with the necessary hand and pipe tools.

The power for the shops is furnished by a 25-horse-power Woodbury engine. When the shops are running, one of the students has charge of the engine and another of the boilers.

BUILDINGS.

MAIN BUILDING.—This is of brick, with brownstone trimmings, and is 170 by 60 feet; part four stories in height, and the remainder two. The lower floors contain the offices of the President, the Secretary of the Faculty, and the Bursar; the library; several recitation rooms; chemical and physical laboratories; the chapel, and the armory. The upper stories are occupied by students.

In this, as in the other buildings, every precaution has been taken to secure good sanitation. The rooms are all well lighted, well ventilated and conveniently arranged.

ENGINEERING BUILDING.—The Engineering Building is a plain, substantial, two story brick building, with large annex. It contains the laboratories, drawing-rooms and recitation-rooms, and shops of the department.

BOILER HOUSE.—This is a single-story brick building, containing boilers, fire-pump, and the machinery connected with the steam heating plant.

PRIMROSE HALL AND PLANT HOUSES.—The Primrose Hall was named in honor of Mr. W. S. Primrose, the first President of the Board of Trustees. It consists of a brick building 42 by 42 and two stories in height, and a fine range of glass structures attached thereto. The lower or basement floor is occupied by the Horticultural Laboratory and boiler-room. The plant houses are five in number, and are immediately accessible from the Lecture-rooms and Laboratories.

DAIRY AND BARN.—These are frame buildings, of modern design, and carefully planned for the purposes to which they are devoted. The barn is 50 by 72 feet and three stories high; the dairy is 20 by 40 feet and two stories high, the upper story being used as the Agricultural Society hall.

WATAUGA HALL.—This handsome three-story brick building was named in honor of the Watanga Club, which was largely instrumental in securing the establishment of the College. The first floor contains a kitchen, a dining-room and a cloak-room, while in the upper stories are twenty-six rooms used as dormitories.

DORMITORIES.—The College has four brick buildings, used exclusively as dormitories, containing a total of fifty-four rooms.

THE HOSPITAL.—This is a two-story brick building with granite trimmings and slate roof. On the first floor are five rooms, a large hall, kitchen, and bath room. The matron's apartments are on this floor. On the upper floor are three hospital wards, two large bath rooms, a linen room, a doctor's office and medicine closet. All of the rooms are provided with large windows and with doors that open to porches. The basement has a hot-water boiler supplying water to baths. The building is lighted by electricity, and is well provided with speaking-tubes. The Hospital wards are provided with enameled beds, single, and the floors are waxed and stained, and all the plastering has soapstone finish and is perfectly sanitary.

WATER SUPPLY.

To meet the need of a pure and plentiful supply of water, the College had six driven wells put in. The depth of these wells is from 55 to 80 feet. The water is pumped for distribution from these wells into three large tanks, and also into one fire reservoir.

LIGHT AND HEAT.

All the buildings are heated with steam, and are lighted with incandescent electric lamps from an electric plant belonging to the College.

DIVISION OF SESSION.

The session is divided into three terms, designated as First, Second and Third Terms.

Although students will be admitted at any time, the best time to enter College is at the beginning of the scholastic year, with the First Term. Students desiring to enter as late as the Third Term will find it impossible to pass the necessary examination, unless they have already attended similar colleges, and had best wait till the beginning of another session.

Any student desiring to enter the Sophomore or other higher class, omitting the earlier classes, will be required to stand an examination which will show ample preparation for the class he may wish to enter.

REPORTS.

Reports of deportment and absence from College duties are sent to parents or guardians at the end of every month, and attention is called to any lack of diligence on the part of the student.

Reports of scholarship and deportment are likewise sent at the end of each term. In the grading 100 is the maximum, 90 or over is considered excellent, 80 or over creditable; 60 is the lowest mark that will entitle the student to pass to a higher class. In calculating the average for the term the subjects count equally.

HONORS.

The Punctuality Roll contains the names of students who have not been absent from a single exercise during the year.

The Honor Roll contains the names of those whose average in all studies for the year is 90 or more.

Special Mention is made at graduation of any student whose average in any study during his Junior or Senior year was above 90.

First Distinction is given in each course to the member of the graduating class who makes the highest average for the course—provided such average for the whole course is above 90.

Students attaining first distinction are entitled to deliver commencement orations.

DEGREES.

One Baccalaureate degree is conferred. Upon those who have successfully passed all the examinations in the various studies of the course in Agriculture, the course in Science, or the course in Engineering, the degree of Bachelor of Science is conferred.

The advanced degrees of M. S., M. E., C. E. and E. E. are given in accordance with the requirements specified under the head of Post Graduate Courses. The fee for the Baccalaureate diploma is three dollars; for the diploma accompanying the higher degrees, five dollars is charged.

YOUNG MEN'S CHRISTIAN ASSOCIATION.

The various Christian denominations are well represented in the student body, and all unite in a Young Men's Christian Association, which meets with regularity and exerts a beneficial influence throughout the College.

LITERARY SOCIETIES.

There are two literary societies in the College—the Pullen and the Lear—both are sustained with energy and spirit. They afford abundant opportunity for improvement in declamation, debate, parliamentary law and composition, and students will find in either congenial associations.

TECHNICAL SOCIÉTIES.

The Agricultural Society, Mechanical Society, and Berzelius (Chemical) Society have been organized by the students taking most interest in these special departments of study. Their work consists in reviews of the various technical journals, and in original papers.

ALUMNI ASSOCIATION.

This Association of the College graduates meets annually during Commencement week, and aids in recalling the pleasant memories of College days, as well as keeping its members in active touch with their *Alma Mater*.

Following are the officers of the Association for the current year:

President, J. A. Bizell, '95, Fayetteville, N. C.

Vice-President, John Howard, '96, Tarboro, N. C.

Sec. and Treas., H. W. Primrose, '97, Raleigh, N. C.

Ch'm'n Exec. Com., Chas. Pearson, '94, Raleigh, N. C.

LIBRARY.

The Library now contains about three thousand books and magazines. Additions are being made to the number every year, and the way now seems clear for rapidly increasing the numbers.

There are reference libraries for the use of students placed in the departments of Agriculture, Horticulture, Chemistry, Physics, English, Mechanical and Civil Engineering.

LABOR.

On the farm and about the College certain work can be performed by the students. For all such labor, not instructive and a part of the College course, students who perform it will be paid *seven* cents per hour. As this labor has to be apportioned among many, no first-year student can hope to make more than two or three dollars a month in this way.

PRIZES.

A prize of ten dollars is given to the Freshman student who, in addition to his class work, earns the largest amount of money by his skill in Agricultural labor outside, and a second prize of five dollars is given to the student who, in addition to his class work, earns the next largest amount of money by his skill in agricultural labor outside.

DISCIPLINE.

There must be order and decorum throughout the College, though the methods of securing both will appeal to the self respect of the student, rather than to the dread of penalties.

For minor deficiencies or irregularities, proportional demerit marks will be noted on the report, sent to parents or guardians monthly and at the end of each term. It is hoped that parents will inquire into the cause of such evidences of demerit and hold their sons to a strict account for them, since if a student is thoroughly in earnest, it is quite possible for him to pass through his course without incurring one deficiency mark.

Students who persist in grave misconduct will not be permitted to remain in the college. The indolent and vicious are not wanted, will not be tolerated, and had best not attempt to enter where a student must work or leave. There is no room in our system for idlers.

STUDENTS.

AGE AND QUALIFICATIONS.—Applicants for the Freshman Class must be at least fifteen years old, and must, if required, furnish satisfactory evidence of good moral character. They must pass satisfactory examinations on the following subjects: 1st. Arithmetic through common and decimal fractions. The examination will cover the ground laid down in such standard arithmetics as Wentworth or Milne. 2d. In English, applicants will be examined on the elements of the language—the examination including the matter treated in such books as Reed and Kellogg's First Lessons, or Harvey's Grammar. 3d. In Geography the applicant is expected to be familiar with work of the grade of Maury's Manual. 4th. In History the examination will be confined to the main events in American History.

PAY AND COUNTY STUDENTS.—The law provides for two kinds of students—pay and county students. There is no limit to the number of pay students. They pay for tuition and for their lodging in the College buildings, while the county students are entitled to tuition and to their lodging in the College buildings free of cost. The expenses of a pay student are only \$30 a year more than those of a county student. Each county is entitled to as many county students as it has members in the House of Representatives. Young men desiring to enter as county students must apply to the Board of County Commissioners, who alone have authority to make such appointments, as the College authorities cannot make them.

ADMISSION.

The County Supervisors of Education are usually willing to conduct the examination of all applicants for admission. This examination will be held at the county-seats on the second Thursdays of July and September, or at such times as will suit the examiner.

All young men, however, wishing to enter, can be examined at the College on the day before its opening, if they did not pass the examina-

tion at the county-seats. These will be held at the following hours: Mathematics, 9 A. M.; English, 11 A. M.; Geography, 2 P. M.; History, 3:30 P. M. Examinations for conditioned students and for applicants for advanced classes will be held also on these days.

Students, after arriving in Raleigh, must report at once to the President of the College for a permit for examination or for registration.

Students who have passed the examinations for admission, or for advancement to a higher class, will report to the Secretary of the Faculty for registration.

GENERAL RULES.

Every young man, on becoming a member of the College, thereby pledges his obedience to the rules, a printed copy of which will be furnished him, and to a diligent performance of his duties.

No student in this College will be allowed to join any Military organization, and no applicant for admission belonging to any Military organization shall be allowed to enter until he shall have filed with the Registrar a certificate of withdrawal from active membership in such organization.

Students are expected at all times to demean themselves in a quiet, gentlemanly manner, and no student will be allowed to remain in the institution who, by misconduct or indolence, shows himself unworthy of its benefits.

All students will be required to attend morning prayer in the chapel.

On the Sunday morning, students must attend the church service in Raleigh, each student being allowed to select the church.

Each occupant of a dormitory is expected to keep his room in good order and ready for inspection at any time.

CLOTHING, ETC.—Each student is required to have one suit of uniform.

Each student living in the College must bring with him a change of sheets and pillow-cases, four towels and two counterpanes, plainly marked.

TUITION.

Tuition is \$20 per scholastic year. County appointees are entitled to tuition and lodging *free of cost*. Post-graduates are excused from tuition fees.

BOARD AND LODGING.

Board and lodging are furnished all county students at \$8 per month. To all other students who may desire it, and to the extent of our accommodations, board will be furnished at \$8 per month, and lodging as below stated.

Board is payable monthly, in advance, and where any student fails to pay promptly on the 1st, notice will be sent to the parent or guardian; and in case payment is not made by the 10th, the student will be dropped from College.

COLLEGE CHARGES PER SESSION OF NINE MONTHS.

1. Tuition	\$ 20 00
2. Lodging (including room, furniture, bedding, etc.).....	10 00
3. Incidental fee (in advance).....	1 00
4. Medical fee and medicine (one-half upon entrance, remainder on January 15).....	4 00
5. Fuel and lights for entire session	12 50
6. Board, eight dollars per month, in advance.....	72 00
	<hr/>
	\$119 50

It will be seen that the aggregate charge for tuition, lodging, and fuel and lights is \$42.50. This must be paid as follows, viz., for first eight months, at beginning of each month, \$4.75; on May 1, ninth month, \$4.50.

The military uniform suit costs \$16.85, and must be paid for when furnished.

Besides board, incidental fee and medical fee, students holding county appointments pay for fuel and lights only, as follows, viz., for first eight months, at beginning of each month, \$1.40; on May 1, ninth month, \$1.30.

Board should be paid to the Steward of the College, fees and dues to the Bursar.

Please bear in mind that **ALL PAYMENTS MUST BE MADE IN ADVANCE.** Failure to comply with this requirement will subject a student to dismissal.

Each student must make good all apparatus, etc., he breaks, and for this purpose must make a deposit at the beginning of the year.

All students must furnish their own books, stationery, and drawing instruments and materials.

STUDENTS.

POST-GRADUATES (15).

<i>Name.</i>	<i>Post Office.</i>	<i>County.</i>	<i>Major Course.</i>
JAMES ADRIAN BIZZELL,	Dunn,	Harnett,	Chemistry.
B. S. '95, N. C. College of Agriculture and Mechanic Arts.			
JOHN WILLIAM CARROLL,	West Raleigh,	Wake,	Agriculture.
B. S. '97, N. C. College of Agriculture and Mechanic Arts.			
CHARLES EDWARD CLARK,	Charlotte,	Mecklenburg,	Agriculture.
B. S. '97, N. C. College of Agriculture and Mechanic Arts.			
WM. ALEX. GRAHAM CLARK,	Raleigh,	Wake,	Civil Eng.
B. S. '97, N. C. College of Agriculture and Mechanic Arts.			
CHARLES DUFFY FRANCKS,	Richlands,	Onslow,	Mathematics.
B. E. '93, N. C. College of Agriculture and Mechanic Arts.			
JAMES DUNN HUFHAM, JR.,	Henderson,	Vance,	Chemistry.
A. B. '96, Wake Forest College.			
CHRIS. MILLER HUGHES,	Raleigh,	Wake,	Chemistry.
B. E. '95, N. C. College of Agriculture and Mechanic Arts.			
CLYDE BENNETT KENDALL,	Polkton,	Anson,	Civil Eng.
B. S. '97, N. C. College of Agriculture and Mechanic Arts.			
SIDNEY GUSTAVUS KENNEDY,	Coahoma,	Lenoir,	Agriculture.
B. S. '97, N. C. College of Agriculture and Mechanic Arts.			
ROBT. DONNELL PATTERSON,	Durham,	Durham,	Agriculture.
B. S. '94, N. C. College of Agriculture and Mechanic Arts.			
HUGH WILLIAMS PRIMROSE,	Raleigh,	Wake,	Chemistry.
B. S. '97, N. C. College of Agriculture and Mechanic Arts.			
THOMAS JEHU SMITHWICK,	Sans Souci,	Bertie,	Mech. Eng.
B. S. '97, N. C. College of Agriculture and Mechanic Arts.			
J. LEA WATSON,	Raleigh,	Wake,	Mech. Eng.
B. S. '97, N. C. College of Agriculture and Mechanic Arts.			
LEVI ROMULUS WHITTED,	Stainback,	Alamance,	Elect. Eng.
B. S. '96, N. C. College of Agriculture and Mechanic Arts.			
BRADLEY JEWETT WOOTTEN,	Wilmington,	New Hanover,	Agriculture.
B. S. '97, N. C. College of Agriculture and Mechanic Arts.			

CLASS OF 1898—SENIORS (16).

<i>Name.</i>	<i>Post Office.</i>	<i>County.</i>
DORSEY FROST ASBURY,	Chambers,	Burke.
SIDNEY HAMILTON BECK,	Table Rock,	Burke.
ANSON ELIKEM COHOON,	Elizabeth City,	Pasquotank.
HUGH MCCOLLUM CURRAN,	Westboro,	Mass.
BENJAMIN CAREY FENNELL,	Raleigh,	Wake.
ALPHEUS ROUNTREE KENNEDY,	Coahoma,	Lenoir.

Students.

<i>Name.</i>	<i>Post Office.</i>	<i>County.</i>
* FREDERICK CREECY LAMB,	Elizabeth City,	Pasquotank,
1 EDWIN BENTLEY OWEN,	Michael,	Davidson.
MOORE PARKER,	Raleigh,	Wake.
VERNON BADHAM RAMSEUR,	Hendersonville,	Hendefson.
* NUMA REID STANSEL,	Allenton,	Robeson.
TEISAKU SUGISHITA,	Kokufu, Hida,	Japan.
6 GEORGE FREDERICK SYME,	Raleigh,	Wake.
DALMA OZARK UZZLE,	Wilson's Mills,	Johnston.

IRREGULAR (2).

FRED CHARLES DOYLE,	Raleigh,	Wake.
MARK SQUIRES,	Lenoir,	Caldwell.

CLASS OF 1899—JUNIORS (30). 22

* WM. DAVIDSON ALEXANDER, JR.,	Croft,	Mecklenburg.
* IRA WILSON BARBER,	Culler,	Stokes.
* JOHN HENDERSON BIRDSONG,	Raleigh,	Wake.
* FRANCIS MARION FOY,	Scott's Hill,	Pender.
KIMBROUGH JONES, JR.,	Raleigh,	Wake.
FLOY LAMBE,	Durham,	Durham.
FRED HENRY LEMLY,	Salem,	Forsyth.
* ALBERT SIDNEY LYON,	Wilton,	Granville.
EDWARD HERBERT MADDREY,	Seaboard,	Northampton.
* CARROLL LAMB MANN,	Englehard,	Hyde.
* O'KELLY WILLIAM MYERS,	Washington,	Beaufort.
* EUGENE LEROY PARKER,	Raleigh,	Wake.
* EUGENE GRAY PERSON,	Louisburg,	Franklin.
CHARLES SHOBER SIEWERS,	Salem,	Forsyth.
6 FREDERICK ERASTUS SLOAN,	Statesville,	Iredell.
ALEXIS PRESTON SEEHLE,	Statesville,	Iredell.
RALPH BINGHAM SYKES,	Rock Spring,	Orange.
WILLIAM ANDERSON SYME,	Raleigh,	Wake
IRVING BURNARD TUCKER,	Fair Bluff,	Columbus.
DARIUS SAMUEL WAITT,	Raleigh,	Wake.
* HUGH WARE,	King's Mountain,	Cleveland.
† CLAUDE BURGESS WILLIAMS,	Elizabeth City.	Pasquotank.

IRREGULAR (8).

SAMUEL YOUNG BRYSON,	Hendersonville,	Henderson.
JOHN FENNELL,	Raleigh,	Wake.
FRED. GRIFFIN KELLY,	Raleigh,	Wake.
JACOB RANKIN PARKS, JR.,	Cape,	Randolph.
* ANDREW THOMAS SMITH,	Oxford,	Granville.
EDWARD GARDNER SMITH,	Garden City,	L'g Isl'd, N.Y.
JAMES SPENCER SPAINHOUR,	Lenoir,	Caldwell.
WILLIAM JAMES WEBB,	Stem,	Granville.

N. C. College of Agriculture and Mechanic Arts. 45

CLASS OF 1900—SOPHOMORES (58).

51

<i>Name.</i>	<i>Post Office.</i>	<i>County.</i>
KEMP ALEXANDER, —	Harrisburg,	Cabarrus.
ELIZABETH ALBERT ANDERSON,	Campinos,	Brazil.
WASHINGTON E. BATEMAN,	Columbia,	Tyrrell.
LESLIE GRAHAN BERRY, —	Washington,	Beaufort.
CARNEY JOHN BRYAN, —	Washington,	Beaufort.
JAMES HARRY BUNN, —	Henderson,	Vance.
AARON HEADEN BYNUM,	Pittsboro,	Chatham.
PAUL COLLINS,	Raleigh,	Wake.
HENRY FERGUSON,	Neuse,	Wake.
BRANTLEY HILLIARD FINCH,	Lexington,	Davidson.
GORDON MICKEL FINGER,	Charlotte,	Mecklenburg.
FRANK GARVIN,	Newton,	Catawba.
BERTIE MASON GRAVES,	Selma,	Johnston.
JAMES BAKER HALL, JR.,	Scotland Neck,	Halifax.
SAMUEL MERRILL HANFF, —	Raleigh,	Wake.
GEORGE ROLAND HARRELL, —	Kelford,	Bertie.
MARION MORGAN HARRIS,	Fairfield,	Hyde.
WM. THEOPHELUS HINTON,	Greensboro,	Guilford.
HENRY ALLEN HUGGINS, —	Wilmington,	New Hanover.
HAMNER CARSON IRWIN, JR.,	Charlotte,	Mecklenburg.
GARLAND JONES, JR., —	Raleigh,	Wake.
JOSEPH BINGHAM KINSEY,	Wilson,	Wilson.
ROBERT GRAHAM KNOX,	Cleveland,	Rowan.
JOHN WOLFE KUYKENDAL,	Davenport,	Mecklenburg.
CORNELIUS MAGLENN,	Raleigh,	Wake.
LOUIS HENRY MANN, —	Middletown,	Hyde.
CHARLES ELBERT MOORE,	Moyton,	Wilson.
JOSEPH CARROLL MOORE,	Globe,	Caldwell.
ROBERT HALL MORRISON, —	Mariposa,	Lincoln.
JOHN ERNEST NIEMYER,	Raleigh,	Wake.
WILLIAM LEAK PEACE,	Oxford,	Granville.
JUNIUS EDWARD PORTER, —	Emerson,	Bladen.
ROGER FRANCIS RICHARDSON, —	Selma,	Johnston.
WILLIAM EDWIN ROSE, —	Statesville,	Iredell.
FLOYD DE ROSS, —	Charlotte,	Mecklenburg.
IRA OBED SCHAUB,	Culler,	Stokes.
JOHN WADE SHORE, —	Boonville,	Yadkin.
CARIE ERASTUS SLOAN,	Taylorsville,	Alexander.
WILLIAM TURNER SMITH, —	Godwin,	Cumberland.
GEORGE EDWARD SUTTON,	LaGrange,	Lenoir.
JOHN LEAVY SWINDLELL,	Raleigh,	Wake.
JOHN THOMAS TALTON,	Smithfield,	Johnston.
CECIL WILBORN TAYLOR,	Newbern,	Craven.
THOMAS FULLER TERRELL,	Raleigh,	Wake.

<i>Name.</i>	<i>Post Office.</i>	<i>County.</i>
THOMAS ALBERT UZZELL,	LaGrange,	Lenoir.
SIMSON ALEXANDER VEST,	Tobaccoville,	Forsyth.
ROSCOE MARVIN WAGSTAFF, —	Olive Hill,	Person.
DAVID EVANS WHARTON,	Washington,	Beaufort.
WILLIE EDGAR WILLIAMS,	Reidsville,	Rockingham.
EDWARD WOOD, JR.,	Edenton,	Chowan.
BENJAMIN VAIDEN WRIGHT, —	Coharie,	Sampson.

IRREGULAR (7).

ROBERT LINN BERNHARDT, —	Salisbury,	Rowan.
ZEBULON VANCE BLOUNT,	Faison,	Duplin.
FRANK SHEPHERD FAISON, JR.,	Raleigh,	Wake.
HENRY JUDSON SMITH,	Itam,	Rutherford.
ZEBULON VANCE SNIPES,	Granthams,	Wayne.
JAKE STIREWADT,	Statesville,	Iredell.
GAITHER HALL WHITING, —	Raleigh,	Wake.

CLASS OF 1901—FRESHMEN (107). 89

CHARLES NICK ALLEN, JR.,	Auburn,	Wake.
WILLIAM AUGUSTUS ASHLEY,	Raleigh,	Wake.
ALLISON ALJOURNAL AYCOCK,	Fremont,	Wayne.
DAVID WORTH BAGLEY,	Raleigh,	Wake.
✓ FLETCHER HESS BARNHARDT, —	Norwood,	Stanley.
EDWARD WALLETE BLEDSOE, JR.,	Raleigh,	Wake.
✓ FRED WILHELM BONITZ, —	Wilmington,	New Hanover.
✓ ZOLLY MOSBY BOWDEN, —	Redland,	Davie.
WILLIAM DUNN BRIGGS,	Raleigh,	Wake.
FRED. OUTLAW HENDERSON BRYAN,	Raleigh,	Wake.
JOHNNIE JAMES BUFFALO,	Jackson,	Northampton.
JOHN OSCAR BUSICK,	Madison,	Rockingham.
✓ WILLIAM PESUD CRAIG,	Marion,	McDowell.
✓ WILLIAM LOIS CRAVEN, —	Concord,	Cabarrus.
JAMES SKINNER DAGGETT,	Wilmington,	New Hanover.
JOHN WITHERSPOON DANIEL,	Raleigh,	Wake.
✓ JOHN NEAL DAVIS,	Louisburg,	Franklin.
✓ LLOYD CONRAD DAVIS,	Falling Creek,	Lenoir.
ALBERT MAGRUDER DICKINSON,	Fremont,	Wayne.
ERROL PATRICK DIXON,	Hookerton,	Greene.
DAVID CLARENCE EMBLER,	Owenby,	Buncombe.
HARRIS AUGUSTUS FETNER,	Raleigh,	Wake.
ARTHUR HYNES FLEMING,	Louisburg,	Franklin.
CLARENCE ALFRED FLOWERS,	Vandemere,	Pamlico.
DAVID IRA FORT, JR.,	Raleigh,	Wake.
JEFFERSON DOZIER FOY,	Scott's Hill,	Pender.
WILLIAM JAMES GATEWOOD,	Gatewood,	Caswell.

N. C. College of Agriculture and Mechanic Arts. 47

<i>Name.</i>	<i>Post Office.</i>	<i>County.</i>
LESLIE GIBBS,	Middleton,	Hyde.
WILLIAM RUFFIN GOLEY,	Graham,	Alamance.
HOWARD GREER,	Washington,	D. C.
CHARLES BENNETT GRIFFIN,	Lewiston,	Bertie.
LEE GRIFFIN,	Monroe,	Union.
CHARLES UPCHURCH HARRIS,	Raleigh,	Wake.
ROBERT NIXON HARRIS,	Wilmington,	New Hanover.
WELDON EDWARDS HAWKINS,	Ridgeway,	Warren.
THOMAS JASON HERRING,	Kinston,	Lenoir.
WILLIAM MICHAEL HOKE,	Lincolnton,	Lincoln.
LOUIS CALVIN HOLMAN,	Raleigh,	Wake.
BENJAMIN OLIVER HOOD,	Asheville,	Buncombe.
ROBERT NISBET HUNTER,	Cowansford,	Mecklenburg.
WILLIAM TURNER IRELAND,	Faison,	Duplin.
GILMER JOYCE,	Mt. Airy,	Surry.
MARTIN KELLOGG,	Sunbury,	Gates.
WILLIAM ROBERT KNIGHT,	Mildred,	Edgecombe.
ROBERT LEE LAMBETH,	Thomasville,	Davidson.
ROMULUS EDWARD LASSITER,	Winston,	Forsyth.
JESSE JAMES LILES,	Wadesboro,	Anson.
LEWIS OMER LOUGER,	Raleigh,	Wake.
COLON REID LOVE,	Maundale,	Chatham.
ROBERT LEE LUMSDEN,	Raleigh,	Wake.
THEODORE HINSDALE MACRAE,	Fayetteville,	Cumberland.
JONATHAN ANDREW MASSEY,	Smithfield,	Johnston.
JOHN LUTHER MCKINNON,	Laurinburg,	Richmond.
JAMES LESLIE MCNAIR,	Wilmington,	New Hanover.
NOAH PALMER MEWBORNE,	Raleigh,	Wake.
FRANK FAISON MIDDLETON,	Greensboro,	Guilford.
JOHN KELLY MILLER,	Winfall,	Perquimans.
FRED EARL MITCHELL,	Raleigh,	Wake.
LEMUEL OCTAVE MOSELY,	Kinston,	Lenoir.
ZEBULON VANCE MURPHEY,	Kinston,	Lenoir.
WILLIAM ALFRED MYATT, JR.,	Raleigh,	Wake.
CHARLES ARTHUR NICHOLS,	Barnard,	Madison.
LESLIE MONTEIRO NORMAN,	Richmond,	Va.
WILLIAM FRANKLIN PATE,	Snow Hill,	Greene.
BOYD CHARLES PATTEE,	Singer Glen,	Va.
JOHN ELLIS PEARSON,	Saluda,	Polk.
SOVEREIGN PASCAL PURVIS,	Hamilton,	Martin.
ISAAC NEWTON SANDERS,	Swansboro,	Onslow.
SIMMONS WHITAKER SEBRELL,	Wilmington,	New Hanover.
HENRY HAMPTON SSSOMS,	Stedman,	Cumberland.
JAMES CASTEN SKINNER,	Hertford,	Perquimans.
ALEXANDER THOMPSON SLOAN,	Winston,	Forsyth.
WILLIAM SIDNEY SMETHURST,	Raleigh,	Wake.

<i>Name.</i>	<i>Post Office.</i>	<i>County.</i>
✓ EDWARD OSCAR SMITH, —	Crystal Hill,	Va.
FRANK PATILLO SMITH,	Guilford College,	Guilford.
JAMES SOUTHERLAND,	Goldsboro,	Wayne.
MARVIN HAMILTON SPARGER,	Mt. Airy,	Surry.
✓ BEVERLY NATH. SULLIVAN, —	Winston,	Forsyth.
RICHARD EPPIE TIMBERLAKE,	Youngsville,	Franklin.
GEORGE TUCKER,	Kinston,	Lenoir.
ARCHIE MUSGRAVE VAUGHN,	Elizabeth City,	Paquotank.
✓ CHARLES AUGUSTUS WATSON, —	Raleigh,	Wake.
JOHN SEATON WELCH,	Apex,	Wake.
ROBERT NOBLE WELFARE,	Lexington,	Davidson.
GGORGE WHITEHEAD,	Belvidere,	Perquimans.
JOHN SMALLWOOD WHITLEY,	Williamston,	Martin.
NEEDHAM BROUGHTON WILSON,	Raleigh,	Wake.
JOSEPH ROBERT WINSTEAD,	Wilson,	Wilson.
DEMPSEY EUGENE WOOD,	Falling Creek,	Lenoir.

IRREGULAR (18).

ERNEST NIEFER BASHFORD,	Raleigh,	Wake.
CHARLES HINTON BELVIN,	Raleigh,	Wake.
WILBUR CARTER COOKE,	Louisburg,	Franklin.
✗ JENIUS DAVIS, JR.,	Wilmington,	New Hanover.
DERWARD DAWSON,	Kinston,	Lenoir.
WM. DOLLISON FAUCETTE,	Halifax,	Halifax.
ALFRED GALLOWAY HANKINS, JR.,	Wilmington,	New Hanover.
CENTENNIAL HILL KING,	Raleigh,	Wake.
CARL LOUIS KUHIL,	Wilmington,	New Hanover.
EDGAR LOOPS,	Kinston,	Lenoir.
JOHN McCLAMROCH,	Mocksville,	Davie.
WILLIAM LEON PARKS,	Seven Springs,	Wayne.
GEORGE WASHINGTON SHEPARD,	Topsail,	Pender.
PERRY AUSTIN SLOAN,	Winston,	Forsyth.
ROBERT GOODLO SLOAN,	Winston.	Forsyth.
THOMAS LEE SPENCER,	Columbia,	Tyrrell.
REUBEN JONES WALKER,	Rutherfordton,	Rutherford.
YASOTARO YEZOYE,	Tokyo,	Japan.

SUB-FRESHMAN CLASS (29).

THOMAS JACKSON ARNOLD,	Beverly,	W. Va.
JOSEPH WILLIAM BAILEY,	Raleigh,	Wake.
JOHN BEALMEAR BRIGGS,	Raleigh,	Wake.
ALBERT WORTH BRYAN,	Winnie,	Bladen.
WILLIAM WIGGINS CASERLEY,	Warrenton,	Warren.
HENRY GRADY DORSETTE,	St. Lawrence,	Chatham.
RICHARD HARLIE EAVES,	Atlanta,	Ga.

N. C. College of Agriculture and Mechanic Arts. 49

<i>Name.</i>	<i>Post Office.</i>	<i>County.</i>
PAUL FLETCHER FAISON,	Raleigh,	Wake.
DAVID ANDERSON FAWCETTE,	Oxford,	Granville.
HECTOR GREEN,	Lillington,	Harnett.
EDWARD HILL HARDY,	Coleraine,	Bertie.
JULIAN HESTER,	Creedmoor,	Granville.
CLAUDE JOSEPH LOGAN,	Brittain,	Rutherford.
WADE HAMPTON McCOTTER,	Grifton,	Pitt.
EDWIN BORDEN MCKEE,	Raleigh,	Wake.
WILLIAM ROBERT MCRACKAN,	Vineland,	Columbus.
WILLIAM HERMAN MORTON,	Kinston,	Lenoir.
JOHN ADOLPHUS B. NUNN,	Newbern,	Craven.
JAMES HOLLISTER POTTER,	Beaufort,	Carteret.
THOMAS RICHARD PURNELL,	Raleigh,	Wake.
HOWARD HARVEY RADFORD,	Smithfield,	Johnston.
FRANK BUCHANAN SIMPSON,	Raleigh,	Wake.
MARVIN GREEN SMITH,	Raleigh,	Wake.
STANLEY GORDON SMITH,	Raleigh,	Wake.
PERCY DANIEL THOMAS,	Statesville,	Iredell.
WRIGHT ELBERT UPCHURCH,	Raleigh,	Wake.
WILLIAM MANLEY WATSON,	Raleigh,	Wake.
KENNETH RAYNOR WOODWARD,	Edenton,	Chowan.
ROBERT WEBB WYNNE,	Raleigh,	Wake.

SUMMARY:

Post-Graduates	15
Seniors	16
Juniors.....	30
Sophomores	58
Freshmen	107
Sub-Freshmen.....	29
Total.....	255

COMMENCEMENT 1897.

BACCALAUREATE SERMON

BY

THE REV. P. H. HOGE, D. D., WILMINGTON, N. C.

ANNUAL ADDRESS

BY

PRES. ROBT. CRAWFORD, WILLIAMSON SCHOOL, PHILADELPHIA, PA.

GRADUATES AND SUBJECTS OF THESES.

With the Degree of Bachelor of Science (B. S.).

<i>Name.</i>	<i>Post Office.</i>	<i>County.</i>
JOSEPH SAMUEL BUFFALOE (A), Humus and its Relation to the Fertility of the Soil.	Rand's Mills,	Wake.
JOHN WILLIAM CARROLL (A), Farm Drainage.	West Raleigh,	Wake.
CHARLES EDWARD CLARK (A), The Flora of the College Farm.	Charlotte,	Mecklenburg.
NICHOLAS LOUIS GIBBON (E), An Experimental Determination of the Value of Radiating Surface for Heating Buildings.	Derita,	Mecklenburg.
CEBERN DODD HARRIS (S), A Chemical Examination of the Water Supply of the N. C. College of Agriculture and Mechanic Arts.	Raleigh,	Wake.
JERE EUSTIS HIGSMITH (A), The Practicability of Dehorning Cattle.	Parkersburg,	Sampson.
CLYDE BENNETT KENDALL (E), Design of a Pratt Bridge Truss.	Polkton,	Anson.
SIDNEY GUSTAVUS KENNEDY (A), The Tobacco Industry of North Carolina.	Coahoma,	Lenoir.
JOSEPH LAWRENCE KNIGHT (A), Methods for the Control of Germination of Seeds.	Mildred,	Edgecombe.
WALTER JONES MCLENDON, JR. (E), Design of a five hundred horse-power Boiler Plant.	Wadesboro,	Anson.
REPTON HALL MERRITT (E), Design of a Pratt Bridge Truss.	Wilmington,	New Hanover.

NOTE.—A, indicates Course in Agriculture; E, in Engineering; and S, in Science.

N. C. College of Agriculture and Mechanic Arts. 51

<i>Name.</i>	<i>Post Office.</i>	<i>County.</i>
ALBERT HICKS OLIVER (A), Effect of Cotton-seed Hulls on the Production of Milk and Butter.	Mt. Olive,	Wayne.
HUGH WILLIAMS PRIMROSE (S), Reactions between Calcium, Hydroxide and the Phosphates under varying conditions.	Raleigh,	Wake.
WILLIS HUNTER SANDERS (E), Design of a five hundred horse-power Boiler Plant.	Dunn,	Harnett.
THOMAS JEHU SMITHWICK (S), Determination of the Latitude and Longitude and true Meridian of the N. C. College of Agriculture and Mechanic Arts.	Sans Souci,	Wake.
J. LEA WATSON (E), Design of a Lighting Plant for the N. C. College of Agriculture and Mechanic Arts.	Raleigh,	Bertie.
BRADLEY JEWETT WOOTTEN (A), Tile Drainage.	Wilmington,	New Hanover.

With the Degree of Civil Engineer (C. E.).

JOHN ISHAM BLOUNT, B. E., The Use of Curves in the Solution of Engineering Problems.	Faison,	Sampson.
DAVID CLARK, B. E., M. E., A Birds-Eye View of the College Grounds.	Raleigh,	Wake.
LEVI ROMULUS WHITTED, B. S., Determination of the Latitude and Longitude and the true Meridian of the N. C. College of Agriculture and Mechanic Arts.	Hambola,	Alamance.

MEMBERS OF THE GRADUATING CLASS ENTITLED TO SPECIAL MENTION.

- J. S. BUFFALOE, Agriculture and Chemistry.
- J. W. CARROLL, Agriculture.
- C. E. CLARK, Agriculture.
- W. A. G. CLARK, English and History.
- N. L. GIBBON, Drawing.
- J. E. HIGHSMITH, Agriculture.
- C. B. KENDALL, Shop.
- S. G. KENNEDY, Agriculture, Horticulture and History.
- J. L. KNIGHT, Agriculture and Horticulture.
- W. J. McLENDON, Shop.
- R. H. MERRITT, Shop and Drawing.
- A. H. OLIVER, Agriculture and Horticulture.
- H. W. PRIMROSE, Chemistry, English and History.
- W. H. SANDERS, Shop.
- T. J. SMITHWICK, Shop.
- B. J. WOOTTEN, Agriculture.

HONOR ROLL.

SENIOR CLASS.

<i>Name,</i>	<i>Post Office.</i>	<i>County</i>
HUGH WILLIAMS PRIMROSE,	Raleigh,	Wake.
WM. ALEXANDER GRAHAM CLARK,	Raleigh,	Wake.
SIDNEY GUSTAVUS KENNEDY,	Coahoma,	Lenoir.

JUNIOR CLASS.

CHRISTOPHER MILLER HUGHES,	Raleigh,	Wake.
HUGH MCCOLLUM CURRAN,	Westboro,	Mass.
NUMA REED STANSEL,	Allenton,	Robeson.

SOPHOMORE CLASS.

FREDERIC ERASTUS SLOAN,	Statesville,	Iredell.
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PUNCTUALITY ROLL.

SOPHOMORE CLASS.

RALPH BINGHAM SYKES,	Rock Spring,	Orange.
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FRESHMAN CLASS.

ELIZABETH ALBERT ANDERSON,	Campinos,	Brazil.
GEORGE ROLAND HARRELL,	Kelford,	Bertie.

FRESHMAN PRIZES IN AGRICULTURE.

TEN DOLLAR PRIZE.

ZEBULON VANCE SNIPES,	Granthams,	Wayne.
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FIVE DOLLAR PRIZE.

JAMES HARRY BUNN,	Henderson,	Vance.
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REGISTER OF ALUMNI.

CLASS OF 1893.

<i>Name.</i>	<i>Degree.</i>	<i>Address.</i>
ROBERT WILSON ALLEN, Prof. Mathematics. Preston Normal School.	B. E.,	Preston, Md.
SAMUEL ERSON ASBURY,	B. S.,	Raleigh, N. C.
HENRY EMIL BONITZ, Architect and Superintendent; Trustee N. C. College of Agriculture and and Mechanic Arts.	B. E.,	Wilmington, N. C.
FRANK FULLER FLOYD, Supt. Linotype Machines for the <i>Knoxville Sentinel</i> .	B. E.,	Knoxville, Tenn.
CHARLES DUFFY FRANCKS, Instructor in Mathematics and Civil Engineering N. C. College of Agriculture and Mechanic Arts.	B. E.,	Raleigh, N. C.
EDWARD MOORE GIBBON, With the Salem Iron Works.	B. E.,	Salem, N. C.
GEORGE PENDER GRAY, Farm Manager.	B. S.,	Silver Lake, Fla.
CHARLES BOLLING HOLLADAY, With Jas. L. Williams & Sons.	B. E.,	Richmond, Va.
WILLIAM McNEILL LYTCH,	B. E.,	()
WALTER JEROME MATHEWS, Engineer for the Eastern N. C. Asylum for the Insane.	B. E.,	Goldsboro, N. C.
JAMES WILLIAM MCKAY, Civil Engineer and County Surveyor.	B. E.,	Black Mountain, N. C.
FRANK THEOPHILUS MEACHAM, Superintendent of Stock at Biltmore Farm.	B. S.,	Biltmore, N. C.
CARL DEWITT SELLARS, Engineer for Altamaha Cotton Mills.	B. E.,	Altamaha, N. C.
CHARLES EDGAR SEYMORE, Farmer.	B. S.,	Louisburg, N. C.
BUXTON WILLIAMS THORNE, Book-keeper.	B. E.,	-----, Miss.
WILLIAM HARRISON TURNER, With Wachovia Mills (F. & H. Fries).	B. E.,	Salem, N. C.
CHARLES BURGESS WILLIAMS, Assistant Chemist N. C. Agricultural Experiment Station.	B. S.,	Raleigh, N. C.
LOUIS THOMAS YARBROUGH, With Southern Bell Telephone Co.	B. E.,	Raleigh, N. C.
SAMUEL MARVIN YOUNG, With Julius Lewis Hardware Co.	B. E.,	Raleigh, N. C.

*Register of Alumni.***CLASS OF 1894.**

<i>Name.</i>	<i>Degree.</i>	<i>Address.</i>
CHARLES EDWARD CORPENING,	B. E., Farmer.	Lenoir, N. C.
DAVID COX, JR.,	B. E., Architect and Engineer.	Hertford, N. C.
ROBT. DONNELL PATTERSON, JR.,	B. S., Farmer and Post-Graduate Student N. C. College of Agriculture and Mechanic Arts.	Raleigh, N. C.
CHARLES PEARSON,	B. E., Architect.	Raleigh, N. C.
ZEBBIE GEORGE ROGERS,	B. E., Secretary and Treasurer.	Danville, Va.
JOHN HYER SANDERS,	B. E., Locomotive Engineer for Lumber Co.	Choccowinity, N. C.
BENJAMIN FRANKLIN WALTON,	B. S., Farmer.	Millbrook, N. C.
JOHN McCAMY WILSON,	B. E., With Salem Iron Works.	Salem, N. C.

FRANK THEOPHILUS MEACHAM, M. S., Biltmore, N. C.
See Class of 1893.

CLASS OF 1895.

THOMAS MARTIN ASHE,	B. E., Traveling Salesman R. F. Morris Tobacco Co.	Raleigh, N. C.
JAMES ADRIAN BIZZELL,	B. S., Instructor in Chemistry, N. C. College of Agriculture and Mechanic Arts.	Raleigh, N. C.
JOHN ISHAM BLOUNT,	B. E., Student Cornell University.	Ithaca, N. Y.
JAMES WASHINGTON BRAWLEY,	B. S., Farmer.	Mooresville, N. C.
WALTER AUSTIN BULLOCK,	B. S., Manager Brooks Dairy Farm.	Bainbridge, Ga.
DAVID CLARK (M. E., Cornell Univ.),	B. E., Bat. Adj. 2d Regiment N. C. Volunteers, U. S. A.	Raleigh, N. C.
GEO. WASHINGTON CORBETT, JR.,	B. E., Engineer Raleigh Electric Co.	Raleigh, N. C.
EDWIN SPEIGHT DARDEN,	B. S., Farmer.	Speight's Bridge, N. C.
WILLIAM KEARNEY DAVIS, JR.,	B. E., Superintendent Southside Manufacturing Co.	Salem, N. C.
JOSEPH CHARLES DEY,	B. S., With Williams Bros., Commission Merchants.	Norfolk, Va.
LEE BORDEN ENNETT,	B. S., Farmer.	Cedar Point, N. C.
ISAAC HENRY FOUST,	B. E., Farmer.	Charlotte, N. C.

N. C. College of Agriculture and Mechanic Arts. 55

<i>Name.</i>	<i>Degree.</i>	<i>Address.</i>
CHARLES WYLLIS GOLD, Business Manager Wilson <i>Times</i> and Dairy Farmer.	B. S.,	Wilson, N. C.
WILLIAM HENRY HARRISS, Draughtsman for the D. A. Tompkins Co.	B. E.,	Charlotte, N. C.
CHRISTOPHER MILLER HUGHES, Clerk N. C. Agricultural Experiment Station.	B. E.,	Raleigh, N. C.
MALCOLM BEALL HUNTER, With Ada Cotton Mills.	B. E.,	Charlotte, N. C.
SAM'L CHRISTOPHER MCKEOWN, Superintendent Machine Shops.	B. E.,	Cornwell, S. C.
MANN CABE PATTERSON, With Salem Iron Works.	B. E.,	Salem, N. C.
ABRAM HINMAN PRINCE, Superintendent of Farm, Oxford Orphan Asylum.	B. S.,	Oxford, N. C.
VICTOR VASHTI PRIVOTT, With Lumber Company.	B. E.,	Edenton, N. C.
HOWARD WISWALL, JR., United States Coast and Geodetic Survey.	B. E.,	Washington, N. C.
CHARLES GARRETT YARBROUGH, With Westinghouse Electric Company.	B. E.,	Pittsburg, Pa.

CHARLES MARCELLUS PRITCHETT, M. E., Raleigh, N. C.
Instructor in Drawing and Shop Work, N. C. College of Agriculture and
Mechanic Arts.

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GEORGE STRONACH FRAPS, Student of Chemistry and Honorary Hopkins Scholar, John Hopkins University.	B. S.,	Baltimore, Md.
MARION JACKSON GREEN, Assistant in Victor High School.	B. S.,	Victor, N. C.
JOHN HOWARD, 2d Lieutenant 2d Regiment N. C. Volunteers, U. S. A.	B. S.,	Tarboro, N. C.
WILLIAM COLBERT JACKSON, Farmer.	B. S.,	Winterville, N. C.
ROBERT GRAHAM MEWBORNE, Assistant Chemist Virginia-Carolina Chemical Co.	B. S.,	Richmond, Va.
LEVI ROMULUS WHITTED, Assistant Inspector of Dredging.	B. S.,	Port Royal, S. C.
HENRY LLOYD WILLIAMS,	B. S.,	Gatesville, N. C.

SAMUEL ERSON ASBURY, M. S., Raleigh, N. C.
See Class of 1893.

CHARLES BURGESS WILLIAMS, M. S., Raleigh, N. C.
See Class of 1893.

<i>Name.</i>	<i>Degree.</i>	<i>Address.</i>
DAVID CLARK,	M. E., See Class of 1895.	Raleigh, N. C.
WILLIAM HENRY HARRISS,	M. E., See Class of 1895.	Charlotte, N. C.
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WM. ALEXANDER GRAHAM CLARK,	B. S., Assistant in Civil Engineering N. C. College of Agriculture and Mechanic Arts.	Raleigh, N. C.
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CLYDE BENNETT KENDALL,	B. S., 1st Sergt. 2d Regiment N. C. Volunteers, U. S. A.	Raleigh, N. C.
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HUGH WILLIAMS PRIMROSE,	B. S., Assistant in Chemistry, N. C. College of Agriculture and Mechanic Arts.	Raleigh, N. C.
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LEA WATSON,	B. S., Assistant in Mechanical Engineering N. C. College of Agriculture and Mechanic Arts.	Raleigh, N. C.
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