1910

# Langston University Catalog 1910-1911

Langston University

# ANNUAL CATALOGUE OF THE COLORED AGRICULTURAL AND NORMAL UNIVERSITY

Founded 1897

1910--1911

LANGSTON, OKLA.

MAIN BUILDING.

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## 1909-1910

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Lorenda Evans, *Superintendent Nurses.*

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## CALENDAR FOR 1910-1911

First term begins Monday, September 5, 1910.

First term ends Friday, December 2, 1910.

Second term begins Monday, December 5, 1910.

Second term ends Friday, March 10, 1911.

Third term begins Monday, March 13, 1911.

Third term ends Friday, May 26, 1911.

Thanksgiving Day, November 24, 1910.

Christmas Holidays begin Thursday, December 22, 1910.

Christmas Holidays end January 3, 1911.

Emancipation Day, Sunday January 1, 1911. (Celebrated Monday, January 2.)

Lincoln's Birthday, Sunday, February 12, 1911. (Celebrated Monday, February 13.)

Commencement Day, Friday, May 26, 1911.

Summer School begins Monday, June 5, 1911.

Summer School ends Friday, July 14, 1911.

# GENERAL INFORMATION

PRESIDENT'S OFFICE.

# GENERAL INFORMATION

## HISTORY AND ORGANIZATION.

This institution was established at Langston by an act of the Territorial Legislature in 1897, for the purpose of giving the colored people of Oklahoma normal, collegiate, industrial and agricultural training. Forty acres of land for building and agricultural purposes were donated by the people of Langston and its immediate vicinity. The same legislature which established the school, appropriated the sum of $5,000 for its benefit. But this amount proved inadequate for the erection of a suitable building, employment of teachers and purchase of necessary equipment. Fortunately for the school at this time, Governor Barnes made such a division of the land lease money among territorial institutions as to make it possible for the school to continue its work without serious embarrassment until an appropriation could be made for its support by the next legislature.

So favorable was the impression made by the school upon the legislature which met in 1899, that it made an appropriation of $10,000 for building purposes, provided a special fund by a tax levy of one-tenth of a mill, set apart one-fifth of the land lease money and one-tenth of the amount which was paid to the Territory annually by the Federal Government, in compliance with the Morrill Act, and made an appropriation of $15,000 from the accrued "Morrill Fund" for the maintenance and equipment of the university.

Owing to the fact that this last appropriation was not approved by the Secretary of the Interior because he was of the opinion that it was made in violation of law, the Regents, at the suggestion of Governor Barnes, adopted a resolution asking our Delegate in Congress to introduce a bill in the House of Representatives providing for the ratification of that part of the Act of

the Legislature which contained the appropriation. Mr. Flynn immediately complied with this request, and secured the passage of the bill by both houses of Congress.

As a result of the action of this Legislature two new buildings were erected—a dormitory for young women and a Mechanic Arts building, and the number of acres was increased to one hundred sixty. The appropriation of $15,000 out of the "Morrill Fund," which was ratified by Congress, made it possible for the Regents to supply the University with books for the library, apparatus for the different departments, stock and implements for the Agricultural and Mechanical Departments.

By an act of the Legislature of 1901 the University was not only well provided with funds for its support during the next biennial period but also for the erection of an addition to the main building, a boys' dormitory, and a residence for the President.

The Seventh General Assembly appropriated the usual amount for maintenance and $5,000 for installing a steam heating plant in the main building and in the girls' dormitory. The Eighth General Assembly appropriated a larger amount than usual for maintenance, $5,000 for a waterworks system and $20,000 for the erection of an additional dormitory for the young women and for the enlargement of the buildings already on the University grounds.

The First legislature of the State of Oklahoma very generously appropriated a fraction over $41,000 for the maintenance of the University for the year 1908-09, which amount, added to the income from the rental of section thirteen and from the "Morrill Fund," raised the total annual income to $48,000.

To relieve the overcrowded condition due to the destruction by fire of the main building in November, 1907, and to the increased attendance, the same Legislature

also appropriated $100,000 for the erection of a new Main Building and for additional improvements.

The Second Legislature appropriated $85,000 for maintenance and improvements.

## *RESOURCES.*

The current and permanent support of the University is derived from:

1. Legislative appropriation.
2. One-third of a tenth of the proceeds from the rental of section thirteen, reserved by Congress for the benefit of institutions of higher learning.
3. One-tenth of the "Morrill Fund."

Also the Enabling Act gave the University one hundred thousand acres of land in Western Oklahoma.

## *LOCATION AND SURROUNDINGS.*

The University is located at Langston, Oklahoma, a village of some two hundred and fifty inhabitants, two and one half miles from Coyle (the nearest station on the A. T. & S. Fe railroad) and fourteen miles from Guthrie. The campus and buildings occupy an elevated position overlooking the school farm of three hundred twenty acres and the surrounding country.

## *BUILDINGS.*

The University has six principal buildings,—the Main Building, Mechanical Building, a dormitory for young men, two dormitories for young women and the President's residence. The new Main Building which has been completed will greatly enlarge the accommodations and comforts of the University. It is a modern two-story and basement building built of pressed brick and is fire-proof, containing twenty-seven rooms, nineteen of which are designed for class-rooms. The class rooms are large and airy, none having a seating capacity of less than twenty-five. It contains also an Assembly

Hall of 1000 seating capacity, four laboratories, planned in accord with the highest attainments in modern educational facilities, the Library and Reading Room, ample room for the Department of Domestic Economy, Lecture Hall, Reception Hall and the President's office.

## *HEAT AND LIGHT.*

All of the buildings are heated throughout with steam from a central plant which also furnishes power for electrically lighting the grounds, the Main Building, one of the girls' dormitories; and, in the near future, all of the buildings will be lighted in the same manner.

This steam plant will also furnish water for the laboratories, lavatories, toilet rooms and baths for all the buildings.

## *LIBRARY AND LABORATORIES.*

Previous to the destruction by fire of the old Main Building the University possessed a well-equipped library and well-appointed laboratories. These are being restored and enlarged in the new building. The equipment saved from the fire, with that since added, is even now fairly adequate to the ordinary needs of the several departments. In the Mechanical, Agricultural and Domestic Science Departments the equipment is excellent and is increasing steadily, a detailed statement of which will be found under the description of these departments.

## *MUSICAL ADVANTAGES.*

The University has a well-equipped and thoroughly organized Musical Department which, besides aiming to provide thorough training in both vocal and instrumental music, encourages and maintains excellent musical organizations of students that tend to develop special talent and to creat a taste for the best in music. The orchestra and the band practice weekly throughout the year and

occasionally furnish concerts of a high order both at the university and in nearby towns. The University glee club and choral class meet weekly under the supervision of a member of the faculty.

### *LITERARY ADVANTAGES.*

Two literary societies are conducted by the student body. The Arena is composed of the young men of the University while the young women conduct the DuBois Literary Society. These organizations, while voluntary and under the government of the students, are under the supervision of the faculty, a member of the faculty usually being present at every meeting. Here the students get training in parliamentary practice, in debating and in other forms of practical and literary training.

### *RHETORICALS.*

Systematic instruction and practice in the principles of speaking and expression are provided by weekly rhetorical exercises, which all students are required to attend. Exercises in oral interpretation, written composition and in the discussion of practical and timely subjects are required of all according to their degree of advancement, the aim being to make voice and body responsive to thought and feeling, to develop original thinking and to give the student control of himself before an audience.

## *RELIGIOUS REGULATIONS AND ADVANTAGES*

Nothing of a denominational character is ever allowed in connection with the University, but all students are required to attend the church of their choice at least once on the Sabbath day. Devotional exercises consisting of singing, scripture reading and prayer are held daily, which all students are required to attend.

The Y. M. C. A. and the Y. W. C. A. constitute the voluntary religious organizations of the University. They

are managed by the students under the supervision of the faculty.

## *ATHLETICS.*

For the physical training and development of the male students there is provided a four-acre field, arranged for football, baseball and general athletics. Suitable athletic training and facilities are also provided for the young women. An athletic association, composed of the student body and representatives from the faculty have general charge of athletics.

## *ADMISSION.*

Candidates for admission to any department of the University are received at or above the age of fourteen, provided they can give satisfactory evidence of good, moral character. While students are admitted at any time during the year, they should, if possible, make arrangements to enter at the opening of the school year. Every day lost makes it that much more difficult to do the work of the year successfully.

*Certificate.* The University is a part of the educational system of the state and as such, wishes especially to co-operate with the public school system of the Commonwealth in promoting the educational welfare of all for whom it exists. Graduates of high schools or other secondary schools which carry their pupils as far as the fourth year of the Preparatory Department of the University will be admitted to any of the college courses upon certificate. Students coming from schools of lower grade are examined and classified according to their attainments. Those who have completed the usual common school course are presumed to be able to pass the examination for admission to the first year of the Preparatory Department, though credit is given certificates presented from the common schools.

## *EXPENSES.*

No tuition is charged in any of the departments. Board, a furnished room, fuel and light are furnished for $6.00 a calendar month. Each student is expected to bring his bed clothing. Facilities are provided for students to do their own washing, or they can have it done for $1.00 a month. All students are required to pay their board monthly in advance. Those who fail to do will be sent home at the expiration of two weeks.

## *EXAMINATIONS.*

General examinations are held at the close of each term and special examinations and written tests may be held within the recitation period at any time at the discretion of the instructors. In making out the standing of students, equal weight is given to the daily standing during the term and to the written examination at the close of the term. The minimum grade required is seventy-five per cent. Students falling below this grade during the year are required to repeat the work the next year.

## *UNIFORM.*

A regulation uniform is required to be worn by all students of the University. It is neat, economical and serviceable for all occasions.

Parents are requested *not* to provide uniforms for their boys or girls before sending them to the University. Each student is expected to deposit with the President the amount covering the cost of the uniform which will be made after he enters the University.

Boys—The uniform consists of the regulation cadet suit—navy blue sack coat, trousers and military cap, the cost not to exceed $14.

Girls—The uniform consists of a navy blue suit and mortar-board cap, the cost not to exceed $12.

Extra suits or parts of suits may be ordered at any time.

Upon entering the University, students will receive instructions regarding the regulations for wearing the uniform and will be expected strictly to observe them.

*DISCIPLINE AND GOVERNMENT.*

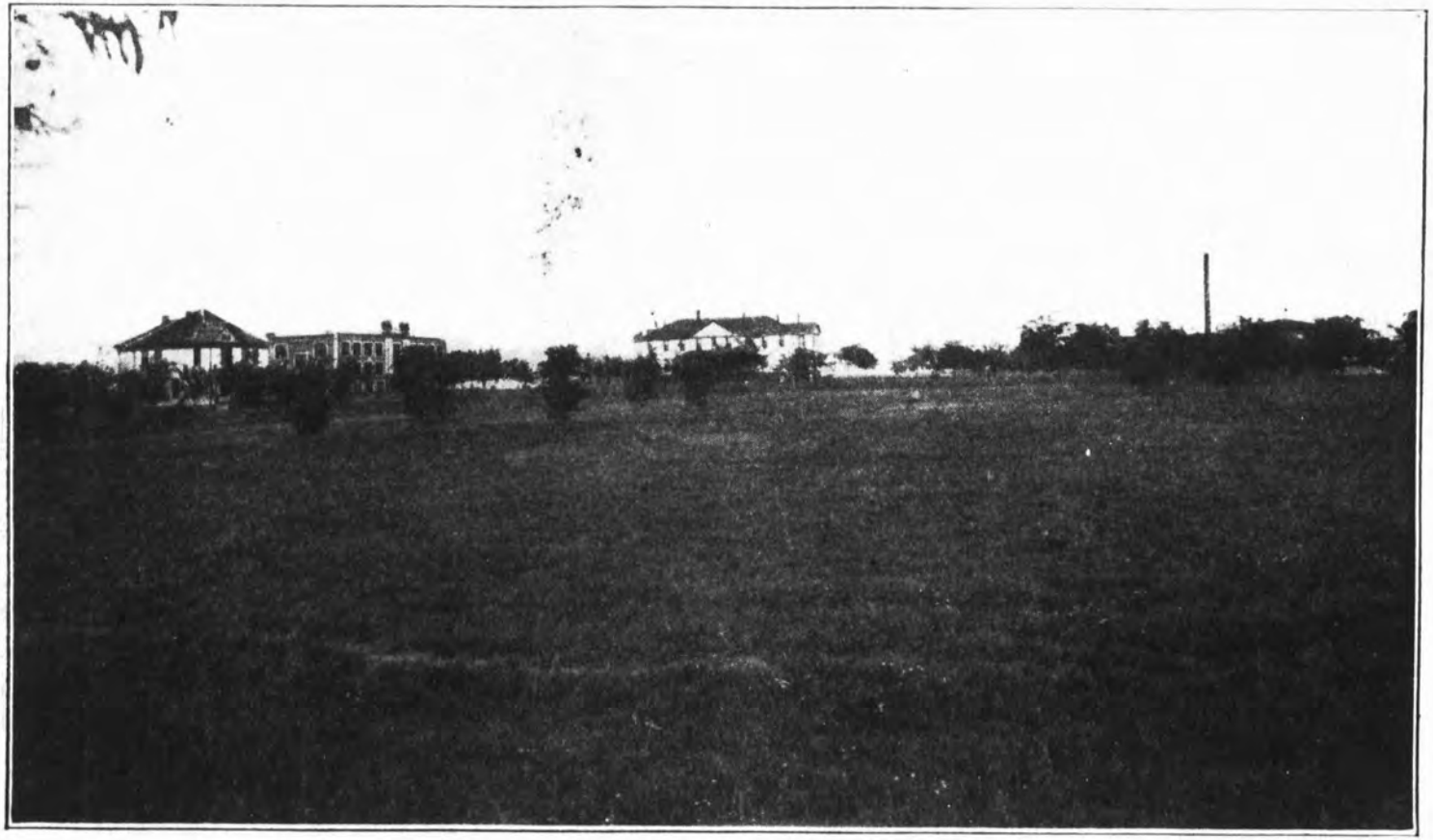
The regulations of the institution are few and simple, appealing to the student's sense of honor and personal responsibility. He is required to be present at all exercises; to abstain from the use of tobacco and intoxicating liquor; not to use or have in his possession gambling devices or deadly weapons; to abstain from the use of profane or indecent language, and to attend a church of his choice once every Sabbath day. No student is allowed to leave the University grounds without permission. Excuse for absence from any required exercise must be obtained in advance. All association between the sexes is under strict supervision and is not allowed without special permission.

All students are presumed to come to the University for the purpose of availing themselves of the advantages offered for education and improvement. Those who conduct themselves in a contrary manner will be suspended from the privileges of the institution.

*COURSES OFFERED.*

1. Agriculture.
   1 College Course.
   2. Three years Course
   3. One year Course
2. College.
   1. Agricultural.
   2. Architectural.
   3. Classical.
   4. Mechanical and Electrical.
   5. Scientific.
3. Normal.
4. Preparatory.
5. Elementary.
6. Trade Courses.
   1. Blacksmithing.
   2. Carpentry.
   3. Foundry—Practice.
   4. Machinist.
   5. Steam Engineering.
   6. Cooking.
   7. Dressmaking.
   8. Millinery.
   9. Plain Sewing.
7. Commercial.
8. Nurse-Training.

# COLLEGE OF ARTS AND SCIENCES



CAMPUS VIEW.

## *COLLEGE OF ARTS AND SCIENCES.*

The College of Arts and Sciences is devoted to the higher academic and liberal studies and to advanced courses in Agriculture and Mechanic Arts. Four courses are offered. The Classical, the Scientific, the Agricultural and the Mechanic Arts', leading respectively to the degree of Bachelor of Arts, Bachelor of Sciences, Bachelor of Scientific Agriculture, or Bachelor of Science in the course pursued.

Preparation for entrance upon any of the foregoing courses implies the completion of a full four years' high school course, or its equivalent, but the subjects which may be presented to meet entrance requirements are so varied that no one who has devoted four years to thorough study in any school above the elementary grades need fear rejection.

For a more detailed statement of requirements for entrance upon the advanced courses in Agriculture and the Mechanic Arts see the description of the courses of those departments.

Applications may be made at any time, but candidates for the Freshman class are advised to appear for entrance at the beginning of the scholastic year.

Failure on the part of any student to maintain a good standing in his studies will at once sever his connection with this department of the University.

### OUTLINE OF COURSES

### CLASSICAL COURSE.

**Freshman Year.**

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 1 (4) | English 2 (4) | English 3 (4) |
| Mathematics 1 (4) | Mathematics 2 (4) | Mathematics 3 (4) |
| Latin 1 (4) | Latin 2 (4) | Latin 3 (4) |
| Greek 1 (4) | Greek 2 (4) | Greek 3 (4) |
| Elocution (1) | Elocution (1) | Elocution (1) |

## Sophomore Year.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 4 (2) | English 5 (2) | English 6 (2) |
| Mathematics 4 (4) | Mathematics 5 (4) | Mathematics 6 (4) |
| Chemistry 1 (7) | Chemistry 2 (7) | Chemistry 3 (7) |
| Literature 1 (2) | Literature 2 (2) | Literature 3 (2) |
| Elocution (1) | Elocution (1) | Elocution (1) |
| Latin or Greek 4 | Latin or Greek 5 (2) | Latin or Greek 6 (2) |
| French or German 1 (3). | French or German 2 (3) | French or German 3 (3) |

## Junior Year.

| | | |
|---|---|---|
| Philosophy 1 (4) | Philosophy 2 (4) | Philosophy 3 (4) |
| History 1 (3) | History 2 (3) | History 3 (3) |
| Biology 1 (8) | Biology 2 (8) | Biology 3 (8) |
| Economics 1 (3) | Economics 2 (3) | Economics 3 (3) |
| Elocution (1) | Elocution (1) | Elocution (1) |
| Literature 4 (2) | Literature 5 (2) | Literature 6 (2) |
| Physics 1 (8) | Physics 2 (8) | Physics 3 (8) |
| Mathematics 7 (3) | Mathematics 8 (3) | Mathematics 9 (3) |

## Senior Year.

| | | |
|---|---|---|
| Philosophy 4 (3) | Philosophy 5 (3) | Philosophy 5 (3) |
| Political Science 1 (4) | Political Science 2 (4) | Politcial Science 3 (4) |
| or | or | or |
| Pedagogy 1 (4) | Pedagogy 2 (4) | Pedagogy 3 (4) |
| Sociology 1 (4) | Sociology 2 (4) | Sociology 3 (4) |
| Latin 7 (4) | Latin 8 (4) | Latin 9 (4) |
| Economics (4) | Economics 5 (4) | Economics 6 (4) |
| Chemistry 4 (9) | Chemistry 5 (9) | Chemistry 6 (9) |
| Physics 4 (4) | Physics 5 (4) | Physics 6 (4) |

Subjects in black are elective, one of which MUST be taken throughout the year.

Senior who expect to follow teaching after graduation will be required to take the courses in Pedagogy.

Numbers refer to corresponding numbers in description of Courses.

Figures in parentheses following the subjects indicate the number of recitation periods each week.

## SCIENTIFIC COURSE.

### Freshman Year.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 1 (4) | English 2 (4) | English 3 (4) |
| Mathematics 1 (4) | Mathematics 2 (4) | Mathematics 3 (4) |
| German or Fr. 1 (4) | German or Fr. 2 (4) | German orFr. 3 (4) |
| Chemistry 1 (7) | Chemistry 2 (7) | Chemistry 3 (7) |
| Elocution (1) | Elocution (1) | Elocution (1) |

### Sophomore Year.

| | | |
|---|---|---|
| Biology 1 (8) | Biology 2 (8) | Biology 3 (8) |
| English 4 (2) | English 5 (2) | English 6 (2) |
| Mathematics 4 (4) | Mathematics 5 (4) | Mathematics 6 (4) |
| Physics 1 (8) | Physics 2 (8) | Physics 3 (8) |
| Literature 1 (2) | Literature 2 (2) | Literature 3 (2) |
| French or Ger. 4 (3) | French or Ger. 5 (3) | French or Ger. 6 (3) |
| Chemistry 4 (9) | Chemistry 5 (9) | Chemistry 6 (9) |

### Junior Year.

| | | |
|---|---|---|
| Biology 9 (9) | Biology 10 (9) | Biology 11 (9) |
| Chemistry 4 or 7 (9) | Chemistry 5 or 8 (9) | Chemistry 6 or 9 (9) |
| Philosophy 1 (4) | Philosophy 2 (4) | Philosophy 3 (4) |
| Mathematics 7 (3) | Mathematics 8 (3) | Mathematics 9 (3) |
| Economics 1 (3) | Economics 2 (3) | Economics 3 (3) |
| History 1 (3) | History 2 (3) | History 3 (3) |

### Senior Year.

| | | |
|---|---|---|
| Pedagogy 1 (4) | Pedagogy 2 (4) | Pedagogy 3 (4) |
| or | or | or |
| Biology 12 (9) | Biology 7 (8) | Biology 8 (6) |
| Geology 1 (5) | Geology 2 (5) | Mineralogy 3 (9) |
| Sociology 1 (4) | Sociology 2 (4) | Political Science 3 (4). |
| Chemistry 10 (4) | Chemistry 11 (4) | Chemistry 12 (4) |
| Philosophy 4 (3) | Philosophy 5 (3) | Philosophy 6 (3) |
| Biology 4 (9) | Biology 5 (10) | Biology 6 (4) |
| | Biology (13) | |

Students in other schools preparing to enter the Scientific Course will find it to their advantage to take courses in Manual Training equivalent to those afforded in the Preparatory Department of the University.

During the Senior Year six courses in Science are required and three additional one may be elected in Biology, Chemistry and Physics. In the selection of courses the student will consult the Head of the Department, who will advise a program suited to his particular needs.

## ENGINEERING COURSES.

These courses are arranged with the purpose of offering a general education and of preparing young men for the professions of mechanical, electrical and architectural engineering. The first two years are devoted to a thorough grounding in English, mathematics, science and general mechanics and the last two to the more technical engineering studies.

### MECHANICAL AND ELECTRICAL ENGINEERING COURSE.

#### Freshman Year.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 1 (4) | English 2 (4) | English 3 (4) |
| Mathematics 1 (4) | Mathematics 2 (4) | Mathematics 3 (4) |
| German or Fr. 1 (4) | German or Fr. 3 (4) | German or Fr. 3 (4) |
| Chemistry 1 (7) | Chemistry 3 (7) | Chemistry 3 (7) |
| Mechanical Drawing 1 (4) | Mechanical Drawing 3 (4) | Mechanical Drawing 3 (4) |
| Joinery 1 (6) | Joinery 3 (6) | Joinery 3 (6) |

#### Sophomore Year.

| | | |
|---|---|---|
| English 4 (4) | English 5 (2) | English 6 (2) |
| Literature 1 (2) | Literature 2 (2) | Literature 3 (2) |
| Mathematics 4 (4) | Mathematics 5 (4) | Mathematics 6 (4) |
| Physics 1 (8) | Physics 2 (8) | Physics 3 (8) |
| Mechanical Drawing 4 (4) | Mechanical Drawing 5 (4) | Mechanical Drawing 6 (4) |
| Forging 1 (4) | Forging 2 (4) | Machine Shop 2 (4) |
| German or Fr. 4 (3) | German or Fr. 6 (3) | German or Fr. 5 (3) |
| Chemistry 4 (8) | Chemistry 5 (8) | Chemistry 6 (8) |

#### Junior Year.

| | | |
|---|---|---|
| Mathematics 7 (3) | Mathematics 8 (3) | Mathematics 9 (3) |
| Strength of Materials (5) | Boilers (5) | Steam Engines (5) |
| Electricity and Magnetism (5) | Foundry 2 (4) | Foundry 2 (4) |
| Mechanical Drawing 7 (6) | Applied Electricity (5) | Electrical Measurements (5) |
| | Mechanical Drawing 8 (6) | Mechanical Drawing 9 (6) |

#### Senior Year.

| | | |
|---|---|---|
| Economics 1 (3) | Economics 2 (3) | Business Forms (3) |
| Machine Design 1 (6) | Machine Design 2 (6) | Machine Designs 3 (6) |
| Electrical Engineering 1 (6) | Electrical Engineering 2 (6) | Electrical Engineering 3 (6) |
| Mechanical Engineering 1 (5) | Mechanical Engineering 2 (5) | Mechanical Engineering 3 (5) |

Subjects in black are elective, one of which MUST be taken throughout the year.

## ARCHITECTURAL ENGINEERING

### Freshman Year.

The same as in Mechanical and Electrical Engineering Course.

### Sophomore Year.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 4 (2) | English 5 (2) | English 6 (2) |
| Literature 1 (2) | Literature 2 (2) | Literature 3 (2) |
| Mathematics 4 (4) | Mathematics 5 (4) | Mathematics 6 (4) |
| Physics 1 (8) | Physics 2 (8) | Physics 3 (8) |
| Architectural Drawing 1 (6) | Architectural Drawing 2 (6) | Architect'l Drawing 2 (6) |
| Forging 1 (4) | Machine Shop 1 (4) | |

### Junior Year.

| | | |
|---|---|---|
| Mathematics 7 (3) | Mathematics 8 (3) | Mathematics 9 (3) |
| Economics 1 (3) | Economics 2 (3) | Economics 3 (3) |
| Architectural Engineering 1 (6) | Architect'l Engineering 2 (6) | Architect'l Engineering 3 (6) |
| Architect'l Drawing 4 (6) | Architect'l Engineering 5 (6) | Architest'l Drawing 6 (6) |
| Strength of Materials (5) | Machine Design 4 (5) | Steam Engines and Boilers (5) |

### Senior Year.

| | | |
|---|---|---|
| Law 1 (3) | Law 2 (3) | Law 3 (3) |
| History of Architecture 1 (3) | History of Architecture 2 (3) | Business Forms (3) |
| Architectural Engineering 4 (8) | Architectural Engineering 5 (8) | Architectural Engineering 6 (8) |
| Roofs and Bridges 1 (5) | Roofs and Bridges 2 (5) | Roofs and Bridges 3 (5) |
| Specifications 1 (3) | Specifications 2 (3) | Thesis |

Electives same as in Mechanical and Electrical Engineering Course.

In the Senior Year students taking the Engineering Courses will be required to take a three-term course in public speaking

## AGRICULTURAL COURSE.

This course is designed to provide a thorough training in general knowledge and in the science of agriculture and to equip young men who expect to follow agriculture as a life work, or to prepare themselves as teachers of others therein. The first two years are devoted to the study o fthe sciences generally and the last two to the special study of agriculture.

## OUTLINE OF COURSE.

### Freshman Year.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 1 (4) | English 2 (4) | English 3 (4) |
| Mathematics 1 (4) | Mathematics 2 (4) | Mathematics 3 (4) |
| Horticulture 1 (5) | Horticulture 2 (5) | Horticulture 3 (5) |
| Chemistry 1 (7) | Chemistry 2 (7) | Chemistry 3 (7) |

### Sophomore Year.

| | | |
|---|---|---|
| English 4 (2) | English 5 (2) | English 6 (2) |
| Literature 1 (2) | Literature 2 (2) | Literature 3 (2) |
| Agronomy 1 (5) | Agronomy 2 (5) | Agronomy 3 (5) |
| Physics 1 (8) | Physics 2 (8) | Biology 14 (8) |
| Biology 1 (8) | Biology 2 (8) | Biology 3 (8) |

### Junior Year.

| | | |
|---|---|---|
| DairyIndustry 1 (4) | Dairy Industry 2 (4) | Dairy Industry 3 (4) |
| Biology 9 (7) | Biology, 10 (7) | Biology 11 (7) |
| Field Engineering 1 (5) | Field Engineering 2 (5) | Forestry (5) |
| Animal Husbandry (5) | Animal Husbandry 2 (5) | Animal Husbandry 3 (5) |

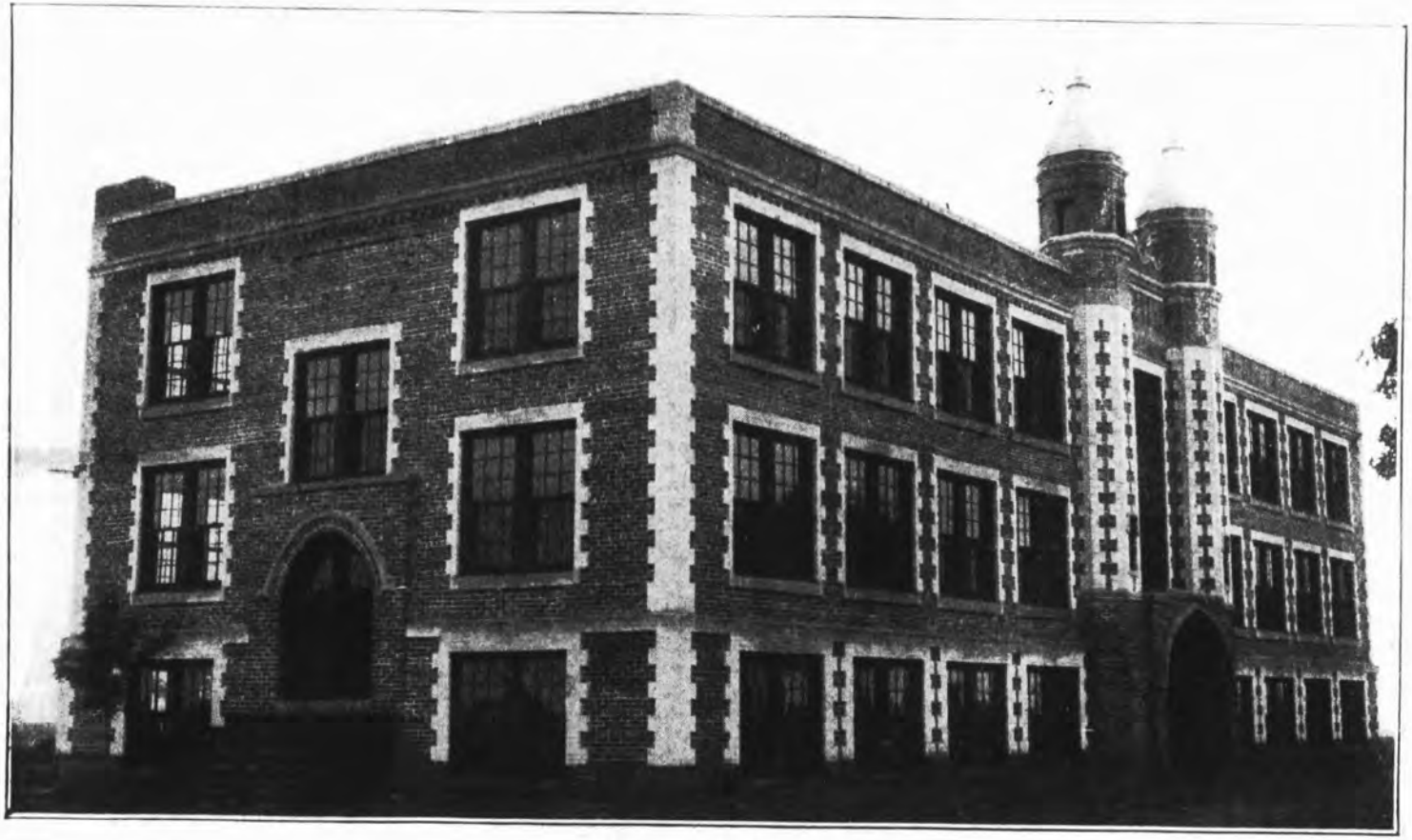
### Senior Year.

| | | |
|---|---|---|
| Geology 1 (5) | Geology 2 (5) | Political Science (3) |
| Economics 1 (3) | Economics 7 (3) | Thesis |
| 2 Electives | 2 Electives | 2 Electives. |

In the Senior Year courses to the number of six must be elected from the work which will be offered in agriculture.

The thesis will embody the results of investigation upon some selected topic in agriculture.

# DESCRIPTION OF COURSES



GIRLS' DORMITORY

## DESCRIPTION OF COURSES.

### AGRONOMY.

1. Field Crops.

History, cultivation and marketing of farm crops; practice with growing and dried specimens, including cereals, grasses, clover and other forage crops.

Lectures, recitations and field work. 5 periods

2, 3. Farm Management.

Present agricultural methods of various countries; cost and relative profit of farming in various countries; farm operations and systems.

Lectures and recitations. 5 periods.

### ANIMAL HUSBANDRY.

1. Stock judging; breeds of live stock—their origin, distribution, adaptability and leading characteristics.

Lectures, recitations and laboratory. 5 periods.

2. A summary course upon animal nutrition, feeds and feeding, and animal breeding.

Lectures, recitations and laboratory. 5 periods.

### BIOLOGY.

1, 2, 3. (Botany). **Morphology of Plants.**

These courses embrace a comprehensive study of the classification, morphology, reproduction and development, and evolution of plants.

Lectures and recitations. 2 periods.

Laboratory work. 5 periods.

Texts: Bergen and Davis, Principles of Botany, and Laboratory and Field Manual.

1. First Term. The general principles of classification morpology, and evolution of plants, with an introductory study of the cell, algae and fungi.

2. Second Term. Liverworts, mosses, ferns and their allies.

3. Third Term. Seed Plants: Elementary Ecology. Text: Muir and Ritchie.

4. **(Botany), Bacteriology.**

This course treats of the classification and the morphological and biological character of bacteria, their relationship to other mico-organisms, and embraces the methods of staining, examining, cultivating and isolating bacteria. Bacteriology 4, 5 and 6 are advised for those who intend to enter the study of medicine.

Lectures and recitations. 2 periods.

Laboratory work. 7 periods.

Text: Muir and Ritchie.

5. **(Botany.) Bacteriology.**

In this course the student elects some special division of the subject (sanitary, medical or industrial) to which he will devote his time in the laboratory. Prerequisite: Bacteriology 4.

Conferences and lectures by appointment.

Laboratory work. 10 periods.

Collateral reading: Sternberg's Text-Book of Bacteriology.

6. **(Botany.) Bacteriology.**

A study of the important modern theories of immunity. This important branch of biological research recently treated according to the principles of physical chemistry, is now occupying an important position in the study of the action of bacteria and their toxines upon man. Students who have had Chemistry 7, 8, and 9 may ordinarily arrange their work so as to take the courses in **Physical Chemistry** and **Bacteriology** during their Senior Year. These courses in Chemistry afford an excellent preparation for a rational understanding of the more complicated immunity reactions, hence are advised, though not required, of those taking **Bacteriology 6.**

Lectures and conferences upon collateral reading. 5 periods.

## PHYSIOLOGY.

**7 and 8. Human Physiology.**

These courses aim to give a general knowledge of the anatomy physiology and hygiene of the human body. The laboratory work consists of a careful examination of the human skeleton, a life-size manikin, microscopic slides of normal histology, with experiments

upon the circulatory, respiratory and nervous systems, together with exercises in physiological chemistry.

Texts: Martin's Human Body (unabridged). Collateral reading: Gray's Anatomy, Hammarsten's Physiological Chemistry.

7. Physiology of blood; circulation; respiration; digestion; secretion; absorption.

Lectures and demonstrations, recitations. 3 periods.

Laboratory work. 5 periods.

8. Physiology of metabolism; nervous system; senses. During the last two weeks of the term 5 periods a week are spent in lectures and recitations upon Personal Hygiene.
Lectures and demonstrations, recitations; 4 periods.
Laboratory work; 2 periods.

## ZOOLOGY.

### 9. Invertebrate Zoology.

This course begins with a brief historical sketch of zoology and its subdivisions, including the general principles and leading theories of the science, and continues by considering the morphology and the life history of the more important group of invertebrate animals. The laboratory work consists or the dissection and microscopic examination of a type-example of the groups studied.

Lectures and recitations: 2 periods.

Laboratory work; 7 periods.

Text: Parker and Haswell. Zoology, Vol I.

### 10. Invertebrate Zoology.

A continuation of Zoology 9.

Lectures and recitations; 2 periods.

Laboratory work; 7 periods.

Text: Parker and Haswell. Zoology, Vol I.

**11. Vertebrate Zoology.**

An introductory course on the comparative anatomy of vertebrates, including a dissection of the frog, dogfish, pigeon and cat.

Lectures and recitations; 2 periods.
Laboratory work; 7 periods.
Text: Parker and Haswell, Zoology, Vol. II.

**12. Animal Histology.**

An introductory course on the structure of the cell and elementary tissues, followed by a microscopic examination of the various viscera. In the laboratory the histologic technique of fixing, staining, embedding and mounting is practiced.

Lectures and recitations; 2 periods.
Laboratory work; 7 periods.
Text: Boehm and von Davidoff. Text-Book of Histology.

**13. (Zoology) Vertebrate Embryology.**

This course begins with a study of the general principles of embryology and the important theories of heredity, and considers the various stages in the development of typical germ cells and of the different organs. The laboratory work consists of a study of serial sections illustrating the development of the frog and chick and the preparation of serial sections of chick embryo.

Lectures and recitations; 2 periods.
Laboratory work; 7 periods.
Text: Minot, a Laboratory Manual of Embryology.

**14. Entomology.**

This course comprises a thorough study of the injurious and beneficial insects and their treatment. The work is divided into three sections—the general study of insects, the San Jose scale, codling moth, plum circulio canker worm, peach borer, garden and field insects; cabbage worm, chinch bug, weevil, hessian fly, potato beetle, etc.

Lectures and recitations; 2 periods
Laboratory work; 6 periods.

## CHEMISTRY.

**1. Descriptive Inorganic Chemistry.**

This course involves the elementary principles of theoretical chemistry as applied to the preparation, properties and uses of the more important non-metallic elements and their inorganic compounds.

CLASS IN CHEMISTRY.

pounds and demonstrations, recitations; 2 periods.

Laboratory work; 5 periods.

Text:

Collateral reading; Ostwald, Principles of Inorganic Chemistry.

**2. Descriptive Inorganic Chemistry.**

This course involves the elementary principles of theoretical chemistry as applied to the preparation, properties and uses of the more important non-metallic elements and their inorganic compounds.

Lectures and demonstrations, recitations; 2 periods.

Laboratory work; 5 periods.

Text:

Collateral reading: Ostwald, Principles of Inorganic Chemistry.

**3. Qualitative Analysis.**

Introductory lectures on "the theory of solutions" and methods of qualitative analysis. Laboratory exercises covering the more important kations and the qualitative determination of kations in unknown solutions and substances.

Lectures and demonstrations; 2 periods.

Laboratory work; 5 periods.

Text: Baily and Cady, Qualitative Analysis.

**4. Qualitative Analysis.**

A continuation of Course 3, covering the anions and their detection in known and unknown solutions and substances.

Lectures and demonstrations; 2 periods.

Laboratory work; 7 periods.

Text: Baily and Cady, Qualitative Analysis.

**5. Quantitative Analysis.**

Lectures on the theory and technique of quantitative analysis and the solution of problems in stoichiometry. The laboratory work embraces the standardization of weights and the determination of the amounts of each constituent in substances of known and unknown quantitative composition by gravimetric methods.

Lectures and demonstrations; 2 periods.

Laboratory work; 7 periods.

Text: Talbot's Quantitative Analysis.

**6. Quantitative Analysis.**

A continuation of Course 5, consisting of the calibration of volumetric apparatus, and of quantitative analysis by volumetric methods.

Lectures and demonstrations; 2 periods.

Laboratory work; 7 periods.

Text: Talbot's Quantitative Analysis.

**7, 8, 9. Organic Chemistry.**

These courses embrace a comprehensive and systematic study of the carbon compounds. In the lectures the characteristic reactions and synthetic methods of preparing organic compounds are treated theoretically by general groups. Much time is devoted to the proof of the structure of the compounds considered. The laboratory work consists in the analysis and preparation of organic compounds. Courses in organic chemistry are now required by many medical schools for entrance, hence Courses 7, 8 and 9 are advised for those who intend to study medicine.

Lectures and written tests throughout the year; 3 periods.

Laboratory work; 6 periods.

Texts: Holleman, a Text-Book of Organic Chemistry and a Manual of Organic Chemistry.

**10, 11, 12. Physical Chemistry**

These courses deal with the entire subject of theoretical chemistry and afford an opportunity for the application of physics and mathematics to chemical laws and theories. Some time is devoted to elementary applications of the fundamental laws of thermodynamics. A general knowledge of physical chemistry is invaluable to those who intend to become professional chemists, physicists or physiologists, in that the more advanced work in these fields of investigations is now being covered in accordance with the methods and principles of physical chemistry.

Lectures, and numerous demonstrations, and recitations; 4 periods.

Text:

Collateral reading: Nernst, Theoretical Chemistry (1904); Walker, Introduction to Physical Chemistry; Oswald, Principles of Inorganic Chemistry .

10. Introductory lectures on fundamental principles of modern chemistry and its relation to physics; deprivation of the two fundamental equations of thermodynamics; the universal properties of the gaseous, liquid and solid states of aggregation and their physical mixtures; dilute solutions; and the atomic theory.

1. The kinetic theory of the molecule; a critique of the methods of molecular weight determination; dissociation of gases and of salts in aqueous solutions.

12. Laws of chemical mass-action; chemical statics; equilibria in salt solutions; chemical kinetics; Thermo-Chemistry and the "phase rule" of Gibbs; Electro- and Photo-Chemistry.

## DAIRY INDUSTRY.

**1. Milk and Butter.**

The characters of milk, methods of handling for different commercial purposes; Pasteurization; tests for purity; butter making and marketing.

Lectures, recitations and laboratory; 8 periods.

**2. A continuation of Course 1.**

**3. Cheese Making.**

Chedder cheese, its manufacture and marketing.

Lectures, recitations and laboratory; 8 periods.

## ECONOMICS.

**1. Elements of Economics.**—This is a descriptive course, embracing an introduction to the subject. 3 periods.

**2. Economic Principles.** An intensive study of the principles developed in the foregoing course. 3 periods.

**3. The Industrial Revolution.**—Study of the stages of industrial development in Europe and the United States and the modern industrial system. 3 periods.

**4. Money and Banking.**—History of exchange; form and laws of money; banking and credit.

**5. Combinations and Trusts.**—A survey of the growth of corporations, corporate combinations; legislative control of. 4 periods.

**6. Capital and Labor.**—The capitalistic theory; wage system, trade unionism, strikes, arbitration. 4 periods.

## ARCHITECTURAL ENGINEERING.

1. History of Architectural construction. Building material and processes.

2. Stresses in frame structures solved by both analytical and graphical methods; stability of structures.

3. Masonry construction; stereotomy; theory and practice in building arches, piers, retaining walls, etc.; building problems.

4. Modern methods of steel and fire proof construction.

5. Heating and ventilation; wiring buildings for electric lighting and power; construction and operation of elevators.

6. Plumbing and sanitary engineering, including disposal of house waste and methods of purification.

## FIELD ENGINEERING.

### 1. Surveying and Plotting of Farms.

Roads and fences; water supply, drainage and irrigation.
Lectures, recitations and field work; 5 periods.

### 2. Farm Machinery.

Capital invested, construction, life and uses of: draft and tillage, seeding, harvesting, threshing, cleaning, grinding, machinery, vehicles and farm motors.
Lectures, recitations and practicums; 5 periods.

## MACHINE DESIGN.

1. General principles of machine design. Definitions. Classification of machines, etc. Design of pillow blocks, shaft hangers, etc.

2. Belts, chains, rope transmission. Link, eccentrics and cams. Gearing—spur, bevel, miter, etc. Screws worm, spiral, etc.

## ELECTRICAL ENGINEERING.

1. Management and design of electrical stations. Transmission of electrical energy. Arc and incandescent lamps.

2. Management and installation of direct current and alternating current machinery, storage batteries, etc.

3. Management of electrical railways, telephone exchanges, etc.

## MECHANICAL ENGINEERING.

1. Design and operation of power plants, including design and construction of suitable buildings, selection and installation of boilers, engines, etc.

2. Design and operation of central heating stations. Design of steam and hot water heating systems, forced blast system of heating and ventilating.

3. Design and operation of shops. Choice arrangement and installation of machinery for foundries, machine shops, wood working establishments. Principles and methods of shop arrangement and management.

### Electricity and Magnetism.

Application of Ohm's law to closed and derived circuits. Magnetic density, lifting coils, etc.

### Electrical Measurements

Theory of galvanometer shunts. Measurements of potentials, insulation, resistance, etc.

### Applied Electricity.

Telegraph receivers and transmitters, telephone exchange graphical representation of the E. M. F., etc. Dynamo and motor design.

## ELOCUTION

The courses in **Elocution** and **Oratory** will be more fully described hereafter. The aim of the courses is to get before the student a proper conception of public speaking and the method of reaching that conception.

They are designed to furnish an opportunity for the mastery of the principles of argumentation, persuasive speaking and interpretation. For the present such work will be given as will meet the needs of the student. 2 periods.

## ENGLISH

Candidates for admission to the Freshman class are expected to be familiar with the forms of discourse. They must be able to write a composition that is very nearly correct in respect to spelling, grammar, idiom, punctuation and division into paragraphs. They must understand the structure of simple English verse and be familar with the figures of speech. Also they must have read the Classics required of students taking the Preparatory Course of this University, or such others as will be accepted as equivalent.

### 1, 2, 3. Composition.

These courses are devoted to a thorough study of the principles of exposition, narration and description. Occasional lectures are given by the instructor. Themes are required throughout the year.

Text: Cairns, Forms of Discourse.

Exposition. Frequent short themes and occasional long ones are required. Such classics as will serve as models in expository composition are read and analyzed.

Lectures and recitations; 3 periods.

Conferences; 1 period.

**2. Narration.** The elements of a good narrative are studied. The plot is carefully considered. Such short stories as Poe's

"Gold Bug" and Hawthorne's "Great Stone Face" are read as models.

Lectures and recitations; 3 periods.
Conferences; 1 period.

3. **Description.**.. English 2 continued.

Lectures and recitations; 3 periods.
Conferences; 1 period.

**4, 5, 6. Argumentation.**

These courses are devoted to a thorough study of argumentation. During the year famous orations are read and analyzed.

Text: Baker and Huntington, Principles of Argumentation.

4. For Analysis: "Webster's Reply to Hayne's." Two briefs and two forensics are required. 2 periods.

5. For analysis "Burke's Conciliation With the Colonies." Two briefs and two forensics are required. 2 periods.

6. For **analysis:** Demosthenes' "On the Crown" Debates upon current copies are prepared, 2 periods.

## FRENCH AND GERMAN

Courses in French and German will be offered according to the preparation of the students taking them. Attention is called to the courses given in the Preparatory Department which are requisite to the advance courses. Students pursuing the Scientific, Mechanical and Agricultural courses are required to take work in both classical and scientific German Prose during the Freshman year.

## GEOLOGY AND MINERALOGY

**1. Elementary Dynamic Geology.**

The mode of action and the effects of physical forces upon the earth. The various geologic features treated by the text and in the lectures are illustrated by the aid of stereoptican views.

Lectures and recitations. 5 periods.
Field excursions by appointment.
Text: Dana, A Manual of Geology.

**2. Elementary Historical Geology.**

The great rock systems, mountain building, glaciation, etc., together with a brief introduction to the study of Paleontology.

Lectures and recitations; 5 periods.
Field excursions by appointment.
Text: Dana, A Manual of Mineralogy.

**1. Elementary Mineralogy.**

This is an introductory course covering in a summary way the entire subject. The laboratory work is devoted to the study of crystallography and descriptive and determinative mineralogy and serves to acquaint the student with the simple methods of determining the more common minerals.

Lectures and recitations; 3 periods.

Laboratory work; 6 periods.

Text: Dana's Manual of Mineralogy.

## GREEK.

The courses given below pre-suppose a thorough training in elementary Greek.

1. **Xenophon, Selections from Books I-IV of the Hellenica;** Prose Composition; Studies in Greek History from the Persian Wars to the Peloponesian War.
   4 periods.
2. **Lysias, Select Orations;** Studies in Athenian History in the Age of Pericles.
   4 periods.
3. **Lysias,** Select Orations continued: Homer, the Odyssey, Books **I-III.**
   4 periods.
4. **Sophocles, Oedipus Tyrannus, or Philoctetes:** Studies in Development of the Greek Drama.
   2 periods.

5-6 **Plato, Selections from the Phaedo;** Studies in Greek Philosophy.
2 periods

## HISTORY OF ARCHITECTURE

Early architectural forms and development of same; architectural history of early civilization. 2 periods.

2. History of mediaeval and modern architecture.

## HISTORY

**1. Modern European History.**

This course is introduced by a brief survey of the European society during the Renaissance; the European states at the beginning of the modern period; the church. Beginning with the Reformation in Germany, the history of Europe is studied to the close of the Thirty Years' War.

Text: Schwill's Political History of Modern Europe.

**3 periods.**

**2. Modern European History.**

A continuation of History 1. The growth of absolutism; Revolution and Democracy; European expansion; social and scientific movements of the nineteenth century.

Text: Schwill's Political History of Modern Europe.

3 periods.

**3. American History.**

This term is devoted to a careful study of the formative period; the origin and development of the constitution; growth and development of the Union; the history of slavery in America; the beginning of the Civil War.

3 periods.

## HORTICULTURE.

Nursery and orchard practice, dealing with the multiplication and subsequent care of plants, grafting, budding, making cuttings, pollination, pruning, spraying, garden tools, etc.

**1. Nursery Practice.**

Lectures, recitations and field excursions; 5 periods.

**2. Plant Breeding and Practical Pomology.**

Lectures, recitations and field excursions; 5 periods.

## BUSINESS LAW.

1, 2, 3. These courses are intended to cover the laws governing ordinary business transactions as they relate to Contractors and Engineers. Only well-established elementary principles are discussed and illustrations are given of their application.

The Courses embrace Contracts, Sales, Negotiable Instruments, Real Estate, Partnership and Corporations.

Lectures and recitations; 3 periods.

## LATIN

The aim of the courses offered below is to give the student a somewhat systematic and extended knowledge of the language and its development, an acquaintance with some of the representative authors of Latin literature and some insight into Roman history and culture and to provide training for those who look forward to teaching, or to other vocations that pre-suppose preparation in Latin.

The requirements for admission to the Freshman Year are as follows: (1) as thorough training in Latin forms and syntax as is given in standard secondary schools; (2) ability to translate from Cicero's Orations; (3) preparation in five books of Vergil's Aeneid, including a knowledge of the rules of prosody, and (4) careful preparation in Latin prose composition.

**1. Livy, Selections from Books I, XXI and XXII; Prose Composition.**
4 periods.

**2. Cicero, De Senectute; Horace, Odes and Epodes;** Topical study of Periods of Roman Literature. 4 periods.

**3. Horace, Odes and Epodes; Tacitus, Agricola et Germania;** Roman Colonial Development. 4 periods

**4. Terence, Phormia;** History of Roman Drama.
2 periods.

**5. Sallust, Catiline:** Study of causes of breakdowns of the Roman Republic. 2 periods.

**6. Plautus, Trinummus; Lange's Masterpieces of Latin Literature.**
2 periods.

**7-9.** These courses are designed to assist students who intend to teach and consist of rapid reviews of Latin courses taught in secondary schools, specific instruction in pronunciation, quantity, syntax and method of teaching vocabulary, paradigms, translation, etc. 4 periods

## LITERATURE

**1. History of English Literature.**

The outline as given in Smith's Synopsis of English and American Literature is followed. Supplementary lectures are given by the instructor. The library furnishes ample material for the expanding of the outline. A carefully prepared notebook is required of each student. This course closes with the prose of the Restoration Era. 2 periods.

**2. History of English Literature.**

This course continues the work of Literature 1, beginning with the period of French Influence and extending to the present.
2 periods

**3. History of American Literature.**

The same plan is followed as in Literature 1 and 2. 2 periods.

**4. Shakespeare.**

Critical study of "Hamlet" and "Macbeth." 2 periods.

**5. Shakespeare.**

Critical study of "As You Like It" and "Merchant of Venice."
2 periods.

**6. Shakespeare.**

Study of the character and tendencies of the modern novel Reading and discussion of typical ones. 2 periods.

## MATHEMATICS.

**1. College Algebra.**

Brief review of Quadratics; Natural Numbers and Irrational Numbers, Division, Transformations, indeterminate equations. Permutations and Combinations. Horner's Method of Approximate roots; Cardan's Formula. Determinants and Elimination. Text: Fine's. 4 periods

**2. Trigonometry.**

Trigonometric Functions; Right Triangle; Oblique Triangle; Problems illustrating their use. Text: Wentworth's Second Revision. 4 periods.

**3. Surveying.**

Chaining, alignment, study of instruments, differential and profile leveling, platting and location surveying: (3) recitation; (2) field work. Text: Wentworth's.

**4. Analytics.**

Construction of Loci. The relation between the Polar and Rectilinear Systems; common and general equations of the conics: Transcendental curves, plans and surfaces of revolution. Text: Hardy's. 4 periods.

**5. Differential Calculus.**

Differentiation of Algebraic and Transcendental Functions; Implicit and Successive Differentiation; Maxima and Minima; Taylor's Theorem; Indeterminate Forms; Series; Partial Differentiation. Text: Granville's. 4 periods.

Integration and geometrical application of Integral Calculus.

**7. Differential and Integral Calculus.**

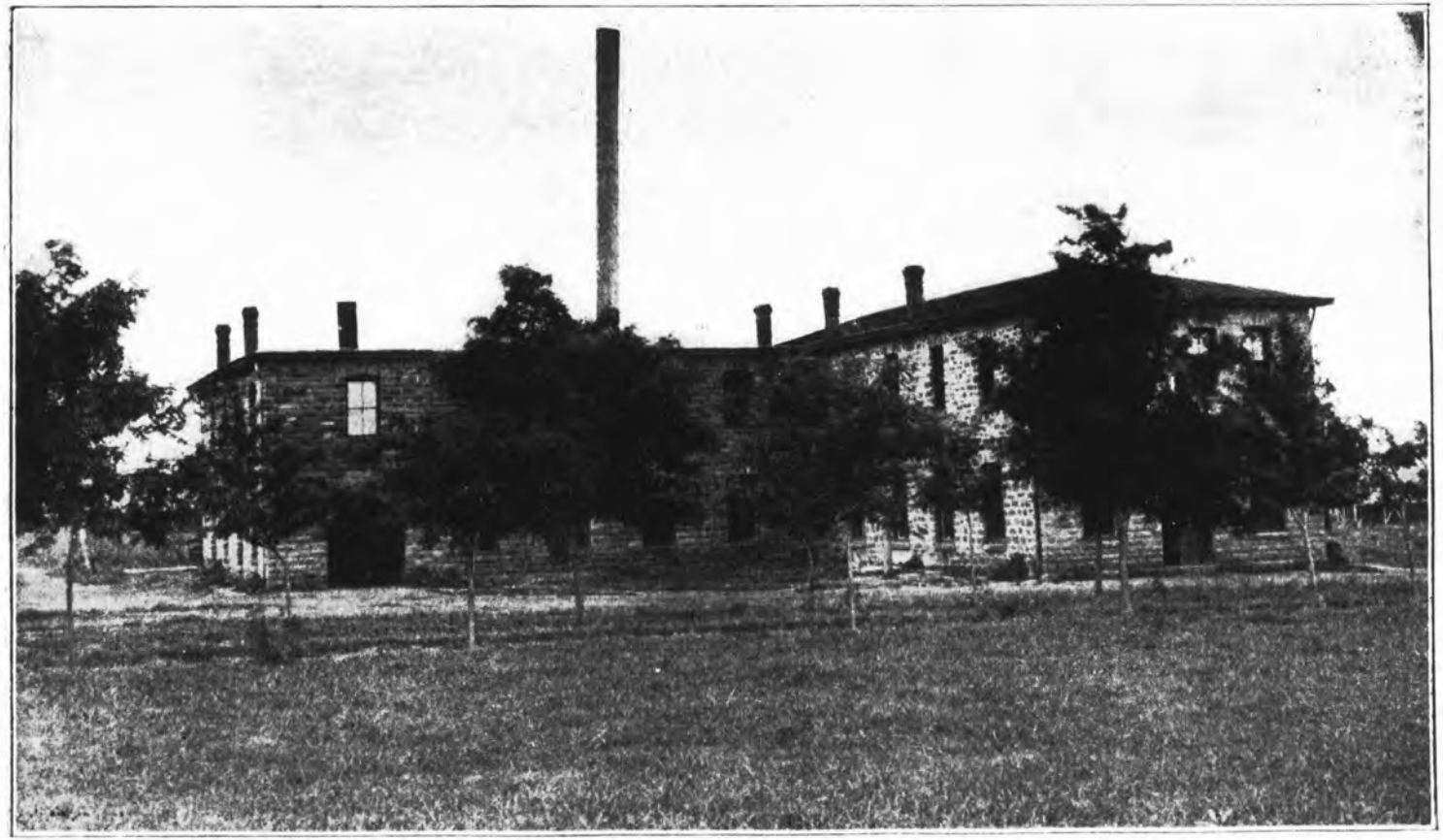
Partial differentiation, Successive and Partial Integration. Text: Granville's. 3 periods.

**Or Descriptive Geometry.**

A clear presentation of the Theory of Projection as a medium of expression is attempted. Text: Randall. 3 periods.

**8. Astronomy.**

The movement of the sun, moon, planets and stars, both apparent and real; the determination of latitude and longitude; the determination of the distance of the moon from the earth, and of the distances of the planets from the sun. Special emphasis is laid on climatology and meteorology. A study of the constellations and the use of the small astronomical telescope and other simple instruments are required. Text: Young's. 3 periods.



MECHANICAL BUILDING.

## ARCHITECTURAL DRAWING.

1. Shades and shadows; modeling in clay.

2. Free-hand drawing in pencil and charcoal; history and composition of ornament.

3. Perspective; interior decoration; outdoor sketching.

4. Elements of architecture; pen and ink rendering; water color work.

5. History, study and application of the orders.

6. Architectural composition and design.

## MECHANICAL DRAWING

1. Orthographic projection.

2. Descriptive geometry.

3. Shades and shadows.

4. Machine drawing—working drawings.

5. Gears, cams, etc.

6. Links, belts, etc.

7. Steam engines; governors; fly wheels; cylinders; valve gears.

8. Original machine drawing and design.

9. Original design of power plants, etc.

## PEDAGOGY.

1 and 2. Education from the standpoint of Psychology, Connection of modern system of education with the psychologic methors. 4 periods.

3. A study is pursued showing why the beginning of education were as per history's records. Conditions affecting methods of teaching are described. Continuation of Pedagogy 1 and 2. 4 periods.

## PHILOSOPHY

**1 and 2. Psychology.**

After developing the relation between bodily condition and mental activity, an attempt is made to develop the relation between the various mental capacities. Relation of brain to body on the one hand, and mind on the other, is shown. Especial attention is given to the matter of the formation of habits. Experimental work is also done.

Recitations and laboratory; 4 periods.

**3. Logic.**

As per Philosophy 3: Normal Work.

**4 and 5. History of Philosophy.**

This covers three terms, beginning with the Ancient period. Middle Ages Philosophy is next studied, followed by the Modern period. An attempt is made to get the fundamentals of the various schools and to ascertain wherein they agree and wherein they differ. Text: Weber's History of Philosophy. 3 periods.

**6. History of Philosophy.**

This embodies a theoretic study of the principles which determine conduct of man. The will, as an important factor, is shown to have most force in obligation. The breadth of ethical considerations and bearing in the various walks of life are developed. 3 periods.

## PHYSICS.

**1. Experimental Physics.**

Theory and methods of physical measurements as applied to the Mechanics of Solids, Liquids and Gases.

Lectures and demonstrations recitations; 2 periods.

Laboratory work; 6 periods.

Text: Ames & Bliss, Laboratory Manual.

Collateral reading; Ganot's Physics.

**2. Experimental Physics.**

A continuation of Physics 1 covering the subjects of Sound, Heat and Light.

Lectures and demonstrations, recitations; 2 periods.

Laboratory work; 6 periods.

Collateral reading; Ganat's Physics.

**3. Experimental Physics.**

A continuation of Physics 2, covering Electricity and Magnetism.

Lectures and demonstrations, recitations; 2 periods.

Laboratory work; 6 periods.

Collateral reading; Ganot's Physics.

**4, 5 6,. Physics.**

These courses cover the subjects of Heat, Electricty and Magnetism, and Light, and although introductory in character, the fundamental principles are developed mathematically. They are advised for those only who have shown a keen interest marked by exceptional ability in both mathematics and physics. It is desirable that students entering these courses shall have some knowledge of plain and partial differential equations.

**4. (Physics). Thermodynamics.**

General principles of heat; the two fundamental equations as applied to "perfect" and "imperfect" gases; entropy; development of thermodynamic relations; change of state the "thermodynamic potential" of Duhem and the "phase rule" of Gibbs.

Lectures and recitations: 4 periods.

Collateral reading: M. Planck. Thermodynamics (English translation by Ogg); Preston, Theory of Heat.

**5. (Physics.) Mathematical Theory of Electricity and Magnetism.**

An introductory course based upon an elementary treatment of the "Newtonian Potential Function."

Lectures and recitations: 4 periods.

Text: Emtage. Electricity and Magnetism.

Collateral reading; B. O. Pierce, Newtonian Potential Functions.

**6. (Physics.) Mathematical Theory of Wave Motion.**

The propagation of waves with application to the reflection and refraction of light and a brief sketch of the electro-magnetic theory of radiation as proposed by Hertz.

Lectures and recitations: 4 periods.

Text: Preston's Theory of Light.

## POLITICAL SCIENCE.

1. Constitution of the United States.

The study of the constitution from a political point of view and a comparative study of the chief governments of Europe with respect to their structure and workings. 4 periods.

2. State and Municipal Government.

A study of the historical development of the American States and their relation to the central government; and a comparative study of the government of American and European cities. 4 periods.

3. International Law.

A study of the development of the laws of nations; their nature, source and status; the doctrine of intervention and arbitration. 4 periods.

### Sociology.

1. Comprising anthropology, invention and growth of language; evolution of habitations, clothing, tools, etc.; social development, family and tribal organization and the evolution of law.

2. The problems of poverty, congestion of population, tenement life and problems growing out of them; crime and its relation to social evolution.

## POULTRY CULTURE.

1, 2 and 3. Classification and development of domestic breeds of poultry; breeding and feeding; poultry management, including the construction and planning of buildings; brooding and marketing.

Lectures, recitations and laboratory. 5 periods.

## ROOFS AND BRIDGES

The weight of different kinds of roofs, stresses of straight and curved rafters. Trusses solved by graphics. In bridges, wooden bridges are first considered, together with their capacity, followed by the study of steel and other bridges.

## STRENGTH OF MATERIALS

Resistance and elasticity of materials. Strength of pipes and cylinders. Riveting and designing riveted joints. Cantilevers and simple beams. Strength of columns. Shafting for transmitting power. Ropes and cables.

## STEAM ENGINES

1. Steam and its properties, with steam tables. Engine mechanism. Indicators and valves. Compound engines. Condensers. Fly wheels.

2. The care and running of engines. Various types of engines.

## STEAM BOILERS

Types, designs and construction of boilers, including methods of riveting and staying, Chimneys, management and care of boilers. Testing and designing.

## STEAM ENGINE DESIGN

The application of machine design to steam engine, including the design of cylinders and steam chests, connecting rods, crank shafts, pistons, valves, accessories, stems, fly wheels, frame or beds, and engine proportions.

GIRLS' DORMITORY

# NORMAL DEPARTMENT

STUDY HALL.

## *NORMAL DEPARTMENT.*

The Normal Department is designed to furnish instruction for those who intend to pursue the profession of teaching in elementary and secondary schools and especially in the public schools of Oklahoma.

The two purposes of the Normal Course are to provide instruction in the science of education and to instruct in the art of teaching by practice under intelligent direction. Hence there are two branches of the Normal Course, the scholastic and the professional, corresponding to the usual Normal School and Training School.

The Normal School embraces two lines of study: (1) Special Method, in which the subject matter of each of the various branches of education is organized with reference to its own inner relations and also with reference to the interests and aptitudes of the child; (2) General Method, which governs all learning and teaching and embraces the formal study of psychology, history of education, the classification of educational problems and acquaintance with the best literature bearing upon them.

The Training School is designed to exemplify by observation of good teaching and by actual teaching the theory of the Normal Course.

The Normal Course requires for its preparation the completion of a four years' high school, or its equivalent, and candidates offering themselves for this course will be required to furnish evidence of such preparation. Applicants who have not acquired the requisite preparation can procure the same in the Preparatory Department of the University.

Graduates from the Normal Department receive a Diploma and Degree of Bachelor of Scientific Didactics. The Diploma entitles the holder to teach in the public schools of Oklahoma for a period of five years without further examination.

## OUTLINE OF COURSES.

### Junior Year.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 1 (4) | English 2 (4) | English 3 (4) |
| Philosophy 1 (3) | Philosophy 2 (3) | Philosophy 3 (3) |
| Nature Study 1 (5) | Nature Study 2 (5) | Nature Study 3 (5) |
| Pedagogy 1 (3) | Pedagogy 2 (3) | Pedagogy 3 (3) |
| History 1 (3) | History 2 (3) | History 3 (3) |
| Music (1) | Music (1) | Music (1) |
| Drawing (1) | Drawing (1) | Drawing (1) |
| ManualTraining (2) | ManualTraining (2) | ManualTraining (2) |

### Senior Year.

| | | |
|---|---|---|
| Pedagogy 4 (4) | Pedagogy 5 (4) | Pedagogy 6 (4) |
| Literature (4) | Phys. Geog. (5) | Phys. Geog. 2 (5) |
| Economics (3) | Ethics (3) | Ethics (3) |
| Teaching 1 (4) | Teaching 2 (4) | Teaching 3 (4) |
| Music | Music | Music |
| Drawing (1) | Drawing (1) | Drawing (1) |
| Agriculture (2) | Agriculture (2) | Agriculture (2) |

Graduates from accredited high schools who have taken Greek instead of Chemistry and Biology will receive therefor credit in either History or English and will be allowed to take courses in Chemistry and Biology.

### AGRICULTURE.

The work in Agriculture will embrace the study of the courses in Agriculture taught in the elementary schools of the State and of the best methods of teaching the same.

The work is made as practical as possible and will, therefore consist largely of field and laboratory work.

Required of Seniors. 2 periods.

### DRAWING.

A course in Drawing is given to Normal Students to better prepare them for classroom work.

#### Junior Year.

The work consists of the drawing of simple, familiar objects, geometric forms and sketching from nature, and ruling principles of drawing.

#### Senior Year.

The work consists of elementary mechanical drawing, principles of perspective and water color work, with a general study of the history of art.

## ECONOMICS

### Elementary Economics.

This course is designed to give the student a general knowledge of the elementary principles of the theory of economics and of the practical problems connected with the question of production and distribution, land labor and capital and the general principles underlying modern industrial society.

Recitations. Collateral reading and theses; 3 periods.

## ENGLISH

### 1, 2. Composition.

These courses are devoted to a study of the forms of discourse. Lectures are given by instructor and reference books provided for the use of the students. Weekly themes are required throughout the courses.

1. Description and Narration.

Lectures; 2 periods.
Conferences; 1 period.

2. Exposition and argumentation.

Lectures; 2 periods.
Conferences; 1 period.

### 3. Review English.

English Grammer is reviewed from teacher's view point. Text books are discussed, methods of presentation, and such classics as can be made use of in the elementary grades are recommended. with suggestions for their use.

## HISTORY

### 1, 2. Modern European History.

These courses are the same as History 1 and 2 of the College Department. For description see page 46.

### 2 American History.

This course includes a discussion of the methods of teaching the history of the United States. Text books are reviewed and their good points and defects noted. Such original sources as are available are suggested. A list of books containing history, biography and literature for supplementary reading is discussed.

**3 periods.**

## MANUAL TRAINING.

The course in Manual Training will present the subject from a pedagogical standpoint along with construction of models in material use in the general school work from the third to the eighth grades.

Required of Juniors. 2 periods.

## NATURE STUDY

### 1. Nature Study (Elementary Zoology.)

This course begins with an elementary study of the simple and compound microscope and continues with an examination of such simple types of invertebrate animals as the amoeba, the fresh-water sponge, the fresh-water hydra, the star-fish, the earthworm, the crayfish, the grasshopper and the snail. In the lectures and recitations these animals are as fully described anatomically as the time will permit. There will be occasional lectures and required reading upon the relation of Nature Study to pedagogy.

Lectures and recitations; 2 periods.

Laboratory work; 3 periods.

Text: Boyer, Elementary Biology.

### 2. Nature Study (Elementary Zoology.)

This is a continuation of Nature Study 1 and is conducted in a like manner. The animals studied are the perch, the frog, the turtle, the pigeon and the cat.

Lecture and recitations, 2 periods.

Text: Boyer, Elementary Biology.

### 3. Nature Study (Botany)

The first five weeks are devoted to a study of one type example each of the algae, fungi, liverworts, mosses and ferns, while the next two weeks are spent in a summary examination of the structure and functions of seeds and seedlings, leaves, roots and stems. The remaining time is spent on the structure and classification of flowering plants. Occasionally in the lectures advantage will be taken of the frequent opportunity for comparing the similarity and differences in the function of animal life and plant life.

Lectures and recitations; 2 periods.

Text: Boyer's Elementary Biology; Bergen, Foundations of Botany.

## PEDAGOGY

**1. School Management.**

In this course the work is so arranged as to give the young teacher a theoretic knowledge of school organization and discipline, of the requiresments of teachers and that which relates to control of school room, discipline, morals, as well as the inter-relations of the Superintendent, School Board, parents and teacher. To build character is insisted on as an end, not a means.

Text: Seeley's New School Management; 3 periods.

**2. Art of Teaching and Methods.**

This course covers one term. It is preceded by Psychology which serves as a foundation for the general Methods and Principles taught. Lectures are given on best methods of teaching the common branches. These are made a note of by students, discussed in class, and at certain times there are tests. The originality and individuality of students receive much consideration. 3 periods.

**3, 4. History and Philosophy of Education.**

The aim of the course is to give the student a familiarity with origin and development of education in the leading countries of the world from the earliest time to the present, along with conditions causing modifications of systems and varying ideals. Attention is especially called to the development of education in the United States, and the relation of our system of education to other systems, past and present.

Text: Painter's History of Education.

Open to Junior College students as Pedagogy 1 and 2.

5, 6. Practice Teaching by Senior Normals; 4 periods.

## PHILOSOPHY

1, 2. These are courses in educational Psychology.

It furnishes theory as a basis for educational method. The work gives a brief presentation of perception, memory, imagination, will and thought in connection with the development of child mind. Special study is given to the comparative physiology of the nervous system, and the relation of the physical to the mental activities is emphasized. 3 periods.

**3. Logic.**

The period covered by the study is one term. It is preceded by Psychology, which serves as a basis. The primary aim of the course is to conduct a sound method of reasoning by daily practice and by noting certain infallible principles, laws indispensable in

accurate judgments and reasoning. With these principles as guides, correcting all false reasoning and encouraging free thought, the student receives power to pursue truth in all fields with a vividness and a certainty not to be attained in any other way. 3. periods.

**4, 5. Ethics.**

In the Normal course in Ethics attention is given to the principles underlying the subject and to the practice. Very much time is devoted to Ethical theory as a foundation for practical application. The wide requirements for benevolence are illustrated. The relation of Ethics to psychology and to religion is shown.

Text: "Fairchild's Ethics."

## PHYSICAL GEOGRAPHY

**1. Physical Geography.**

This course begins with a study of general physiographic processes as they apply to the earth as a whole, and continues with the physiography of the United States, including its plains and plateaus. Frequent attention is called to the utility of physiographic methods as applied to the instruction of elementary geography; while many of the fundamental principles of biology, physics and chemistry are emphasized. The formal lectures are illustrated by the aid of the projection lantern. The laboratory work consists of a study of models, maps, reports upon field excursions, etc.

Lectures and recitations; 3 periods.

Laboratory work; 2 periods.

Occasional field excursions by appointment.

Text: Fairbanks, Practical Physiography.

Collateral reading: Davis, Physical Geography.

**2. Physical Geography.**

A continuation of Physical Geography, conducted in a similar manner in which the Physiography of the United States is completed, including its mountains, valleys and canyons, rivers, lakes and basins, coast lines, climate, forests and irrigation.

Lectures and recitations. 3 periods.

Laboratory work. 2 periods.

Occasional field excursions by appointment.

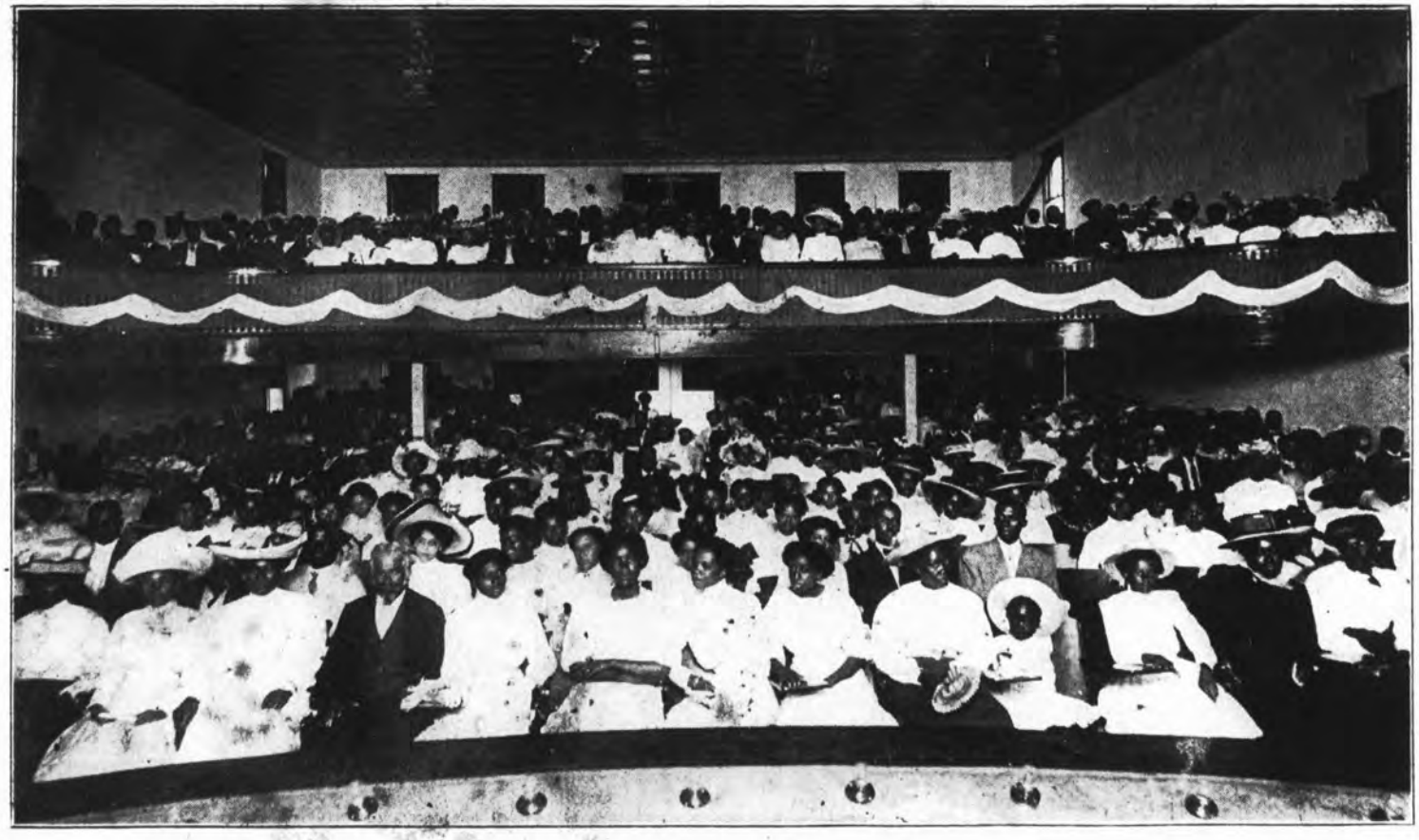
Text: Fairbanks. Practical Physiography.

Collateral reading: Davis, Physical Geography.

CLASS IN PHYSICS.

# PREPARATORY DEPARTMENT

PRESIDENT'S RESIDENCE.



AUDITORIUM.

## *PREPARATORY DEPARTMENT*

The Preparatory Department offers two courses, the Classical and Scientific. Students taking either course are prepared for the Normal Course or for a similar course in the College Department or for the advanced courses in the Mechanical or Agricultural Departments.

In addition to fitting students for the above mentioned courses this department aims to provide systematic training in secondary education which will equip the average student for the duties and responsibilities of citizenship by the development of him in body, mind and heart under favorable and inspiring influences.

### *Admission.*

To enter the first year, students should have completed the regular Grammar School Course provided by the public school system or its equivalent. Especially should they have a good knowledge of Geography, Arithmetic and the elements of English Grammar.

Before beginning English 1 or Latin, the student should be familiar (1) with parsing, including inflection and construction; (2) with the classification and analysis of sentences; (3) with the use of the relative pronouns, infinitives, and (4) with the conjugation of the verb.

Reports of the standing of students will be made to parents upon request at the end of each term.

### OUTLINE OF COURSES.

### CLASSICAL COURSE.

**First Year.**

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 1 (5) | English 2 (5) | English 3 (5) |
| Algebra 1 (5) | Algebra 2 (5) | Algebra 3 (5) |
| Latin 1 (5) | Latin 2 (5) | Latin 3 (5) |
| ManualTraining (6) | ManualTraining (6) | ManualTraining (6) |
| Rhetoricals (2) | Rhetoricals (2) | Rhetoricals (2) |
| Music | Music | Music |

### Second Year.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 4 (4) | English 5 (4) | English 6 (4) |
| Algebra 4 (3) | Algebra 5 (3) | Algebra 6 (3) |
| Latin 4 (4) | Latin 5 (4) | Latin 6 (4) |
| History 1 (4) | History 2 (4) | History 3 (4) |
| ManualTraining (6) | ManualTraining (6) | ManualTraining (6) |
| Rhetoricals (2) | Rhetoricals (2) | Rhetoricals (2) |
| Music | Music | Music |

### Third Year.

| | | |
|---|---|---|
| English 7 (2) | English 8 (2) | English 9 (2) |
| Geometry 1 (4) | Geometry 2 (4) | Geometry 3 (4) |
| Latin 7 (4) | Latin 8 (4) | Latin 9 (4) |
| Greek 1 (5) | Greek 2 (5) | Greek 3 (5) |
| ManualTraining (4) | ManualTraining (4) | ManualTraining (4) |
| Rhetoricals (2) | Rhetoricals (2) | Rhetoricals (2) |
| Music | Music | Music |

### Fourth Year.

| | | |
|---|---|---|
| Physics 1 (6) | Physics 2 (6) | Physics 3 (6) |
| History 4 (2) | History 5 (2) | History 6 (4) |
| English 10 (2) | English 11 (2) | Latin 12 (4) |
| Latin 10 (4) | Latin 11 (4) | Greek 6 (4) |
| Greek 4 (4) | Greek 5 (4) | Review Math. 6 (2) |
| Geometry 4 (2) | Geometry 5 (2) | ManualTraining (4) |
| ManualTraining (4) | ManualTraining (4) | Rhetoricals (1) |
| Rhetoricals (1) | Rhetoricals (1) | Music |
| Music | Music | |

Numbers refer to the corresponding numbers in the Description of Courses.

Figures in parentheses indicate the number of recitations per week in the subject.

At the beginning of the third year in each of the Preparatory courses, students may elect Agriculture instead of Manual Training, but will be required to continue it in the Fourth Year.

## SCIENTIFIC COURSE.

### First Year.

| | | |
|---|---|---|
| English 1 (5) | English 2 (5) | English 3 (5) |
| Algebra 1 (5) | Algebra 2 (5) | Algebra 3 (5) |
| Latin 1 (5) | Latin 2 (5) | Latin 3 (5) |
| ManualTraining (6) | ManualTraining (6) | ManualTraining (6) |
| Rhetoricals (2) | Rhetoricals (2) | Rhetoricals (2) |
| Music | Music | Music |

### Second Year.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 4 (4) | English 5 (4) | English 6 (4) |
| Algebra 4 (2) | Algebra 5 (2) | Algebra 6 (2) |
| Latin 4 (4) | Latin 5 (4) | Latin 6 (4) |
| Biology 1 (6) | Biology 2 (6) | Biology 3 (6) |
| Manual Training (6) | ManualTraining (6) | ManualTraining (6) |
| Rhetoricals (2) | Rhetoricals (2) | Rhetoricals (2) |
| Music | Music | Music |

### Third Year.

| | | |
|---|---|---|
| English 7 (2) | English 8 (2) | English 9 (2) |
| German 1 (4) | German 2 (4) | German 3 (4) |
| or | or | or |
| French 1 (4) | French 2 (4) | French 3 (4) |
| Geometry 1 (4) | Geometry 2 (4) | Geometry 3 (4) |
| Physics 1 (6) | Physics 2 (6) | Physics 3 (6) |
| ManualTraining (4) | ManualTraining (4) | ManualTraining (4) |
| Rhetoricals (2) | Rhetoricals (2) | Rhetoricals (2) |

### Fourth Year.

| | | |
|---|---|---|
| Ger. or Fr. 4 (4) | Ger. or Fr. 6 (4) | Ger. or Fr. 6 (4) |
| Chemistry 1 (6) | Chemistry 2 (6) | Biology 2 (6) |
| History 4 (2) | History 5 (2) | History 6 (4) |
| English 10 (2) | English 11 (2) | Review Math. (2) |
| Geometry 4 (2) | Geometry 5 (2) | ManualTraining (4) |
| ManualTraining (4) | ManualTraining (4) | Rhetoricals (1) |
| Rhetoricals (1) | Rhetoricals (1) | |

Numbers refer to the corresponding numbers in the Description of Courses.

Figures in parentheses indicate the number of recitations per week in the subject.

At the beginning of the Third Year in each of the Preparatory courses, students may elect Agriculture instead of Manual Training, but will be required to continue it in the Fourth Year.

## DESCRIPTION OF COURSES.

### BIOLOGY.

**1. Biology (Elementary Zoology).**

This course is similar to Nature Study 1 of the Normal Department (see page 61); but it differs from it in that no mention is made of the relation of zoology to pedagogics, while stress is laid upon its utility in the arts and sciences, such as farming, stock raising, agriculture and medicine.

Lectures and recitations; 2 periods.

Laboratory work; 4 periods.

Text: Boyer, Elementary Biology.

**2. Biology (Elementary Zoology.)**

A continuation of Biology 1 and similar to Nature Study 2 of the Normal Department with the exceptions noted under **Biology.** 1. For description see page 61.

Lectures and recitations; 2 periods.

Laboratory work; 4 periods.

Laboratory work; 4 periods.

Text: Boyer, Elementary Biology.

**3. Biology (Elementary Botany.)**

For the description of this course see **Nature Study** 3, page 61.

Lectures and recitations; 2 periods.

Laboratory work; 4 periods.

Texts: Boyer, Elementary Biology; Bergen, Foundation of Botany.

**4. Biology (Elementary Physiology.)**

The anatomy, physiology and hygiene of the human body. The laboratory work consists in the examination of prepared histologic slides, the mammalian heart and brain, simple experiments in the digestion of foods, bandaging and dressing of wounds, testing for color blindness and vision, etc.

Lectures and recitations; 3 periods.

Laboratory work; 3 periods.

Text: Blaisdell's Physiology.

## CHEMISTRY.

**1. Elementary Chemistry.**

The preparation, properties and uses of the more important non-metallic elements and their inorganic compounds.

Lectures and demonstrations, recitations, and written exercises 2 periods.

Laboratory work; 4 periods.

Text: Brownlee and others.

**2. Elementary Chemistry.**

A continuation of Chemistry 1 in which the metallic elements are treated.

Lectures and demonstrations, recitations, and written exercises; 2 periods.

Laboratory work; 4 periods.

Text: Brownlee and others.

## ENGLISH

**1. Composition.**

A course in the practical application of the theoretical grammar completed in the 8th Grade. Exercises in description and narration required on assigned subjects.

Text: Maxwell's Writing in English.

Reading: Longfellow's Hiawatha.

5 periods.

**2. Composition.**

A continuation of English Exercises in narration and argumentation. Some attention is paid to oral debate.

Text: Maxwell's Writing in English.

Reading: Selections from the Sketch Book.

5 periods.

**3. Composition.**

A continuation of English 2. Exercises in argumentation and exposition.

Text: Maxwell's Writing in English.

Reading: Assigned Classics.

5 periods.

—Note: A ten minute conference period is assigned each student throughout the year.

**4. Rhetoric and Composition.**

Themes in narration and description. Special attention is given to punctuation and paragraphing.

Text: Lockwood and Emerson.

Reading: Cooper's "Last of the Mohicans;" Scott's "Lady of the Lake."

4 periods.

**5. Rhetoric and Composition.**

Exposition and letter-writing.

Reading: Scott's "Ivanhoe; Marmion."

4 periods.

**6. Rhetoric and Composition.**

Versification and figures of speech; simple argumentation.

Text: Lockwood and Emerson.

Reading: Stevenson's "Treasure Island;" Tennyson's "Princess."

4 periods.

**7, 8, 9. Composition**

Throughout the year students will be required to write themes based upon their reading. They will also be required to memorize poems carefully selected from American and English authors.

7. Reading: Shakespeare's Merchant of Venice; Julius Ceasar; Midsummer Night's Dream. 2 periods.

8. Reading: Coleridge's Rime of the Ancient Mariner; Arnold's Sohrab and Rustum; Tennyson's Enoch Arden. 2 periods.

9. Reading: Goldsmith's Vicar of Wakefield; Deserted Village 2 periods.

**10, 11. Composition and Rhetoric.**

One period each week is devoted to the study of Rhetoric. The library of the English Department contains reference books for the use of the students. Lectures are given by the instructor. Besides the classics given below students are required to read an approved novel and make reports at the end of each month.

10. Reading: Tennyson's Idylls of the King. 2 periods.

11. Reading: Hawthorne's House of the Seven Gables Tennyson's In Memoriam. 2 periods.

## MODERN LANGUAGES

The aim of the first year's work in German and French is to enable the student to acquire correct punctuation, knowledge of fundamental form and a vocabulary for reading easy texts. The second year enlarges upon the work of the first and is designed to enable the student to read easily intermediate texts and to appreciate the language.

## GERMAN

1. Spanhoofd's Lehrbuch der Deutchen Sprache. 4 periods.

2. Lehrbuch continued; Anderson's Maerchen und Bilderbuch. 4 periods.

3. Zerschoke's Der Zerbrochene Krug; Sheldon's German Grammar. 4 periods.

4. Harris' German Composition; Arnold's Fritz auf Ferien. 4 periods.

5. Harris' German Composition; Die Journalisten. 4 periods.

6. Schillers' Maria Stuart; Hoffman's Historische Erzahlugen. 4 periods.

## FRENCH.

1. Super's Preparatory French Reader. Special attention given to pronunciation, the use of articles, adjectives, pronouns. 4 periods.

2. Continuation of course 1, with special attention to the verb, and translation of simple English sentences into French 4 periods.

4. Erckmann Chartrain's L'Histoire d'un Payson; composition one period a week. 4 periods.

5. Course 4 continued; Bruce's Seuections for Sight Translations. 4 periods.

6. Hugo's Quatre-vingt-treize. Sight reading. 4 periods.

## MATHEMATICS.

### Algebra.

Text: Slaught and Lennes.

**1. Introduction to the Equation**: Positive and Negative Numbers; Involved Number expressions. 5 periods.

**2. Solution o fProblems** involving interest, areas, volumes, densities, momentum, thermometer reading, simple number relations, motion, simple lever, and the arrangement and value of digits. 5 periods.

**3. Special products and factors;** Quotients and square roots; fractions with literal denominations. 5 periods.

**4. Fundamental Laws; Fundamental Operations;** Integral Equations of the First Degree in One Unknown; Integral Linear Equations in two or more variables; factoring. 3 periods.

**5. Powers and Roots;** Quadratic Equations; algebraic Fractions; ratio, variation, and proportion. 3 periods.

**6. Exponents and Radicals;** Logarithms; progressions; the binomial formula. 3 periods.

### Geometry.

**1. Plane Geometry.** Rectilinear Figures; Extensions of the meaning of Angles; Symmetry; Methods of Proving theorems. Original Exercises and Numerical Problems are given.
Text: Wentworth's.
3 periods.

**2. The Circle; Theory of Limits; Problems of Construction;** Solution of Problems; Theory of Proportion; Numerical Properties of figures.
3 periods.

3. **Areas of Polygons:** Regular Polygons and Circles; Maxima and Minima.
   3 periods.

4. **Lines and Planes in Space:** Polyhedrons, Cylinders and Cones; The Prismatoid Formula.
   3 periods.

5. **Figures on the Surface of a Sphere:** Spherical Volumes, Numerical Problems.

6. **Review of Mathematics.**

The purpose of this course is to give the student an opportunity to fix thoroughly in mind the principles of Arithmetic, Algebra and Geometry, and their applications to practical problems.
3 periods.

## GREEK.

The work in Greek consists in the study of the common inflections and syntactical constructions usually done in the first year of the study of Greek, two books of Xenophon's Anabasis and three books of the Iliad. Greek Prose Composition is studied throughout the course.

1. **White's First Greek Book.**
   Twenty-five lessons. 5 periods.
   White's First Greek Book, completed and Book I of

   **2, 3, Xenophon's Anabasis.**
   Daily drill in inflections and syntax. 5 periods.

4, 5. **Xenophon's Anabasis, Books II-IV.**
Prose Composition. Special Study of modes and tenses and construction. 4 periods.
Texts: Goodwin and White's Anabasis; Jones' Greek Prose Composition; Goodwin's Greek Grammar.

6. **Homer. The Iliad, Books I, II.**
   Scanning, Homeric inflections and Mythology. 4 periods.
   Text: Seymour, School Iliad.

## HISTORY.

**1, 2, 3. Ancient History.**

In these courses particular attention is given to the civilization of each of the nations studied. The mythology of Greece and Rome is carefully considered. Special reports upon assigned topics are required throughout the year.
Text: West, Ancient World.

1. The Eastern Nations. Egypt; the Tigris-Euphrates states; Phoenicia; Hebrews; Persian Empire; Greece (to page 154.) 4 periods.

2. Greece continued to the invasion of Rome; Rome to the founding of the Empire. 4 periods.

3. Rome. A continuation of History 2. This course closes with a study of the civilization of Rome. 4 periods.

**4, 5. English History.**

In these courses topical outlines of Magna Charta, Petition of Rights and Bill of Rights are required. Special attention is given to the origin and development of the House of Commons, the origin and development of ministerial government, and the extension of the franchise. 3 periods.

**6. Civil Government.**

The aim of this course is to give the student a thorough knowledge of the elementary principles of American constitutional law and their historic development. The machinery and growth of government, local, state and national, are emphasized, and the theory of the divisions of government into departments and the separation of powers are noted. The government of the State of Oklahoma the relation of government to agriculture, good roads, schools and other matters relating to the general welfare are studied topically. 4 periods.

Text: Young's Government Class-Book.

## LATIN.

Those students succeed best in the study of Latin who have a good understanding of English. The best possible preparation therefore, for Latin is a thorough mastery of the principles of English Grammar.

**1. Twenty-five lessons in Collar and Daniell's "First Year Latin."**

The general rules of Roman accent are applied from the beginning. Study of quantity. Daily practice in changing English into Latin based upon the text and reciting the same orally.

5 periods.

**2. Collar and Daniell's "First Year Latin" to lesson Sixty-five.**

Study the verb forms and simple construction, principal parts, synopsis, infinitives, participles. 5 periods.

**3. Lessons Completed and "Selections for Reading."**

Special study of final, consecutive, conditional and circumstantial clauses. General review of "First Year Latin." 5 periods

**4. Caesar's Gallic War, Book I.**

Review of forms and construction. Latin Prose Composition. 4 periods.

Texts: Johnston-Sanford, "Caesar's Gallic War;" Jones, Latin Prose Composition; Allen and Greenough, New Latin Grammar.

**5. Caesar's Gallic War, Books II and III.**

**6. Caesar's Gallic War, Books IV and V.**

**7. Cicero's Orations,** First and Second against Catiline. Latin Composition. 4 periods.

Texts: Harkness, Kirkland and Williams, Cicero's Orations; Jones, Latin Prose Composition; Allen and Greenough, New Latin Grammar.

**8. Cicero, Orations, Third and Fourth against Catiline.**

**9. Cicero, Orations,** Manilian Law and part of Poet Archias.

**10. Vergil, Aeneid, Book I. Quantity and prosody; Life and Times of Vergil; Mythology based upon the text.** 4 periods.

Texts: Carter, Vergil's Aeneid, Allen and Greenough, New Latin Grammar.

**11. Vergil, Aeneid, Books II and III.**
4 periods.

**12. Vergil, Aeneid, Books IV-VI.**
4 periods.

## MANUAL TRAINING.

### Joinery.

1. Planing to surface and square; measuring and sawing to line; making simple joints.

2. Making mortise and tenon joints, bandsawing, boring, etc Practical application of above in making simple articles of use and ornament.

3. Practical application of preceding technical work continued.

### Wood Turning.

1. Turning wood between centers—centering, roughing with gauge, calipering, smoothing straight with skew chisel, convex turning with chisel, concave turning with gouge.

2. Face plate work; chuck and mandrel work.

3. Ornamental, turning balusters, shellac polishing.

### Forging.

1. Pointing, drawing out, upsetting, bending, twisting and punching iron.

2. Scarfing and simple welding; forging steel; making chisels punches, screwdrivers, springs, etc.

3. Ornamental iron work; tool making.

### Machine Work.

1. Bench work, including chipping and filing, hack sawing and thread cutting.

2. Lathe Work—Plain and taper cylinders; cutting right and left V threads; drilling holes; planing with planer and shaper.

3. Machine construction.

### Mechanical Drawing.

1. Drawing and joining straight and curved lines, three plates. Geometrical problems, four plates.

2. Study of orthographic projection, 2 plates. Isometric perspective, 2 plates. Drawing plans, elevations and sections from other drawings.

3. Drawing plans, elevations and sections from free-hand sketches of objects.

## PHYSICS.

### 1. Elementary Physics.

Mechanics of solids, liquids and gases.

Lectures and demonstrations, recitations. 2 periods.

Laboratory work. 4 periods.

Text: Hall and Bergen, A Text-Book of Physics.

### 2. Elementary Physics.

Light, heat and sound.

Lectures and demonstrations, recitations. 2 periods.

Laboratory work. 4 periods.

Text: Hall and Bergen, A Text-book of Physics.

### 3. Elementary Physics.

Magnetism and electricity.

Lectures and demonstrations, recitations. 2 periods.

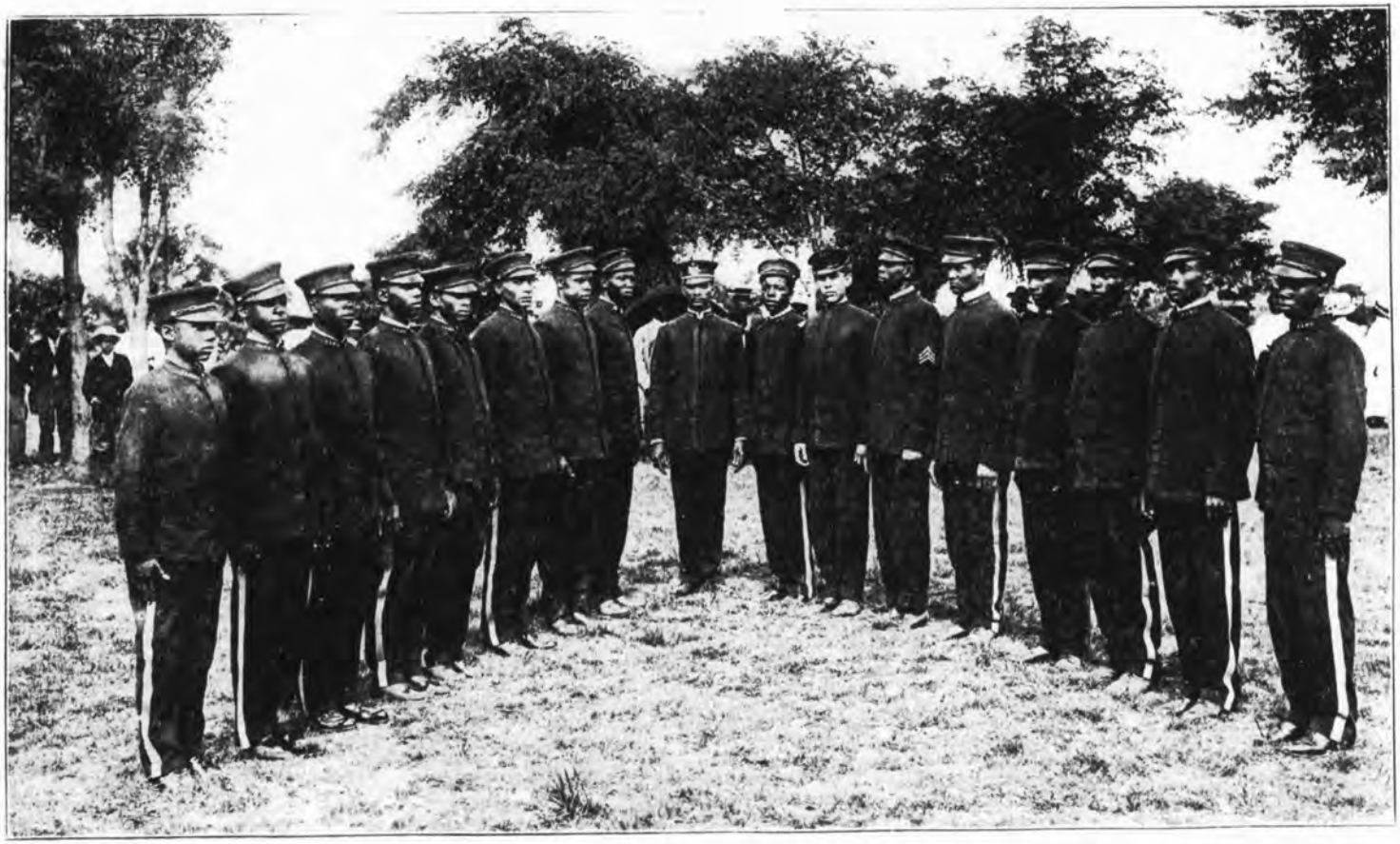
Laboratory work. 4 periods.

Text: Hall and Bergen, A Text-book of Physics.

Note—In the above courses each student is furnished with all of the apparatus necessary that forty-five of the exercises as described in the text may be performed, thus acquainting him with the quantitative as well as the qualitative methods of physical science.

# ELEMENTARY DEPARTMENT

DEPARTMENT OF PHYSICS.



**BATTALION.**

## *ELEMENTARY DEPARTMENT.*

The Elementary Department consists of four grades —fifth and eighth inclusive—with a course of study similar to that of the best city graded school. Its object is to fit students for the Preparatory Department, to furnish an elementary education to those who are not provided with suitable school facilities at their homes and to provide a Training School for applying the theories and methods of the Normal Department. This department is under the control of trained and experienced teachers and keeps abreast of educational theories and practice.

Agriculture and Manual Training have been introduced into this department and are a profitable source of interest and development.

It offers special advantages to those students who have lacked the opportunities for thorough elementary training and who desire to pursue special work in the Mechanical Department, the Domestic Science Department and the Agricultural Department.

Students completing the work in this Department are promoted to the Preparatory Department.

### FIFTH GRADE.

Reading.—**Basic Fifth Reader** and **First Supplementary Fifth Reader** are used.

Geography.—Special attention is given to home Geography. The earth as a whole is studied. North America and South America are studied, attention being given to their chief products, domostic, transportation and trade. **Frye's Primary Geography** is completed and reviewed.

Arithmetic.—**Smith's Primary Arithmetic** is used. Fundamental principles involving fractions, decimals, denominate numbers, simple interest are studied. The book is completed.

Grammar.—**Reed & Kellogg's Graded Lessons in English.**

Special attention is given to the study of parts of speech and diagramming.

Nature Study.—This work will consist of class room and practical work as arranged by teacher.

Drawing.—**Prang's Art Education** is used.

**Penmanship.—Eaton's Writing Book.**

Manual Training.—Domestic Science. (See page 120.)

Vocal Music.—Chart Text. **Natural Music Reader,** No. 7. Stress is placed on clefs, lettering, pitch-names, time, kinds of notes, etc.

## SIXTH GRADE.

Reading.—**Basic Reader** and **First Supplementary Sixth Reader, Doub's Speller** are used.

Geography.—Study of the earth as a whole physiographically, effect upon climate, vegetable and animal life, industries and population. The United States is studied, special attention given to map drawing and relief modeling. Text: **Redway & Hinman's Complete Geography.**

Arithmetic.—**Smith's Practical Arithmetic.** A complete review of fundamental principles, extensive work in fractions, decimals and denominate numbers to longitude and time.

Grammar.—**Reed & Kellogg's Graded Lessons.** Stress is placed upon both oral and written composition work, letter writing, rules for capitals, punctuation and abbreviations.

Nature Study.—This work will consist of the study of insects, birds and plants. Text: **Cumming's Nature Study.**

Drawing.—**Prang's Art Education** is used.

Penmanship.—**Eaton's Writing Book.**

Manual Training.—Forging and foundry practice.

Domestic Science. (See page 121.)

Vocal Music.—Text: **Natural Music Reader,** No. 2. Review of principles of music. Drill in accent, force, harmony and intervals.

## SEVENTH GRADE.

Reading.—**Curry's Literary Reader** is used with **Doub's Speller** for the spelling.

Geography.—The detailed parts of the United States, Canada, Mexico and Central America are studied. The continents of South America and of Europe are studied. Special attention being given to their countries, their boundaries, their principal cities and their resources. In a simple way forms of government, with their relation to the intelligence and the character of the people, are studied.

Arithmetic. **Smith's Practical Arithmetic** will be used. The aim of the work is to teach the pupils to apply all principles taught to original problems. Percentage will be especially emphasized, hence a thorough knowledge of decimals is necessary.

Grammar.—**Reed & Kellogg's Higher Lessons** in English. Technical work continued, sentence structure, diagramming, use of reference grammars.

Beginning Agriculture.—This is to give the student a general idea of the entire field of Agricultural activity. Text: **Ferguson and Lewis'.**

Drawing.—**Prang's Art Education** will be used.

Penmanship.—**Eaton's Writing Book.**

Manual Training. Forging foundry practice and joinery.

Domestic Science. (See page 121.)

Vocal Music.—Text: **Natural Music Reader.** No. 2. Easy note reading in the various keys, key signatures and chromatic scales are studied.

## EIGHTH GRADE.

Reading.—**Curry's Literary Reader** and **Doub's Speller** are used with selected supplemental work.

Arithmetic.—**Smith's Practical Arithmetic** is completed. Special attention is given to ratio, proportion, square root, cube root metric system, and mensuration.

Grammar.—**Kellogg's High School Grammar.** Complete technical work, general review of theoretical principles and practical application of same.

Physiology.—In connection with recitations, demonstrations are given on human anatomy. Text: **Krohn's Graded Lessons in Physiology.**

United States History.—**Thomas' U. S. History.** A careful study of history of U. S. Use of reference histories. History conference is held once each month, at which time collateral work is reported.

Geography.—**Redway and Hinman's Complete Geography** is completed. Review form and size of earth, rotation, revolution, seasons, latitude and longitude. A study is made of the conditions affecting commerce and the interdependence of nations.

Agriculture.—**Furgerson & Lewis' Agriculture** is completed.

Drawing.—**Prang's Art Education** is used. Original work is required. Once each month the life and work of some artist is studied.

Penmanship.—**Eaton's Writing Book.**

Manual Training.—Wood-working, machine shop practice, forging and foundry practice.

Domestic Science. (See page 121).

Vocal Music.—Key signatures from point of view of intervals, position of sharps and flats in various keys, etc. Text: "Song Monarch."

The following text-books, adopted by the State Board of Education, are used in the Elementary Department. Students are advised to bring with them the texts they have used at home and not to purchase any of the texts named below unless instructed to do so by their teachers.

### Fifth Year.

Basic Fifth Reader and First Supplementary Fifth Reader.
Doub's Speller.
Smith's Primary Arithmetic.
Frye's Primary Geography.

Read & Kellogg's Graded Lessons in English.
Modern Music Series.
Eaton's Penmanship.
Thompson's Drawing for Rural Schools.
Prang's Art Education for City Schools.
Thomas' Elementary United States History.
American Bird and Nature Chart.

**Sixth Year.**

Basic Fifth Reader and First Supplementary Sixth Reader.
Doub's Speller.
Webster's Primary Dictionary.
Hill's Dictionary, Speller and Etymology, Supplementary.
Smith's Practical Arithmetic.
Thorburn & Holcomb's Oklahoma History.
Burkett, Stevens & Hill's Agriculture for Beginners. American Bird and Nature Study Chart.
Thompson's Drawing for Rural Schools.
Prang's Art Education for City Schools.
Krohn's Graded Lessons in Physiology.
Redway & Hinman's Complete Geography.
Reed & Kellogg's Graded Lessons in English.
Thomas' Elementary United States History.
American Bird and Nature Study Chart.

**Seventh Year.**

Curry's Literary Readings.
Doub's Speller.
Webster's Common School Dictionary.
Hill's Dictionary, Speller and Etymology, Supplementary.
Smith's Practical Arithmetic.
Redway & Hinman's Complete Geography.
Reed & Kellogg's Higher Lessons in English.
Thomas' History of the United States.
Evans & Bunn's Civics.
Ferguson & Lewis' Principles of Agriculture, supplementary text commenced, American Bird and Nature Study Chart.

Krohn's Graded Lessons in Physiology.

Eaton's Penmanship.

Thompson's Drawing for Rural Schools.

Prang's Art Education for City Schools.

American Bird and Nature Study Chart.

**Eighth Year.**

Curry's Literary Readings.

Doub's Speller.

Reed & Kellogg's Higher Lessons in English completed and Reed & Kellogg's High School Grammar commenced.

Carson's Handbook of Composition.

Lincoln's Boston School Kitchen (alternate with Krohn's Graded Lessons in Physiology.)

Redway & Hindman's Complete Geography, alternate with Ferguson & Lewis' Agriculture.

Thomas' United States History, basal. Atkinson-Mentzer Historical Maps.

Evans & Bunn's Civics and Oklahoma Constitution.

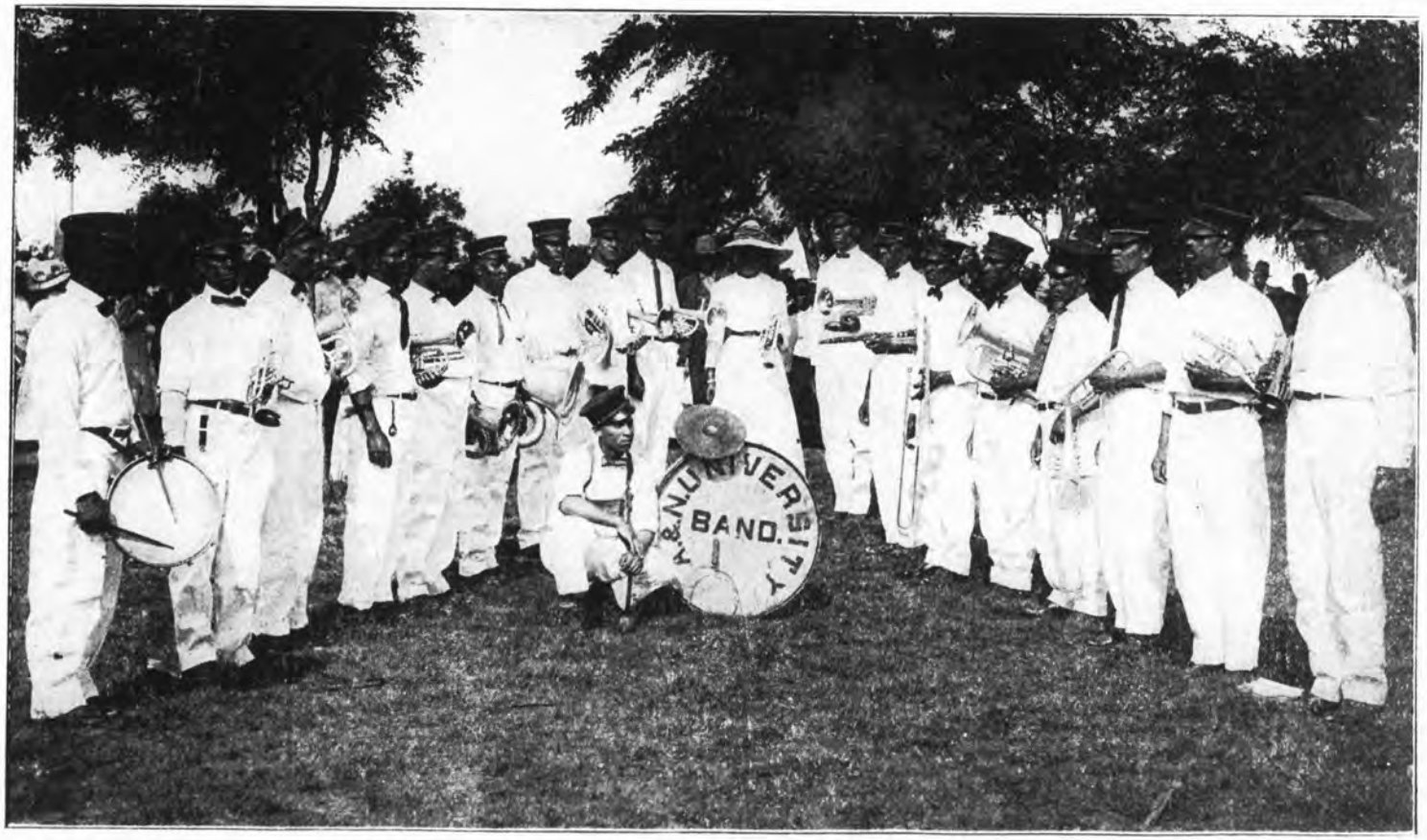
Eaton's Penmanship.

Thompson's Drawing for Rural Schools.

Prang's Art Education for City Schools.

In addition to these Hill's Etymology and Speller, Scott's Practical English, Mayberry's Physiology and Nihart's Arithmetic are used as Supplementary Texts.

American Bird and Nature Study Chart.




UNIVERSITY BAND

# DEPARTMENT OF AGRICULTURE

UNIVERSITY BARN

CLASS IN AGRICULTURE.

## *DEPARTMENT OF AGRICULTURE.*

The Department of Agriculture aims to interest young men and women in the very things with which they live day by day—the soil, the weather, the animal, the farm home, the school, and all the customary rural affairs. It seeks both to give them power to make the most of the farm and to inspire contentment with agricultural life.

The University is provided with three hundred twenty acres of good farm land, with about two hundred fifty acres of it available for cultivation, also with stock, orchards, gardens, libraries and other equipment under the supervision and management of an expert and a practical farmer. The buildings comprise a large Michigan barn with some of the most modern improvements and a piggery. The laboratory facilities are suitable to all the needs of agricultural instruction. There are herds of cattle, sheep, swine and various farm horses; many kinds and specimens of fruit trees in orchards and plants and farm machinery and implements. The library facilities comprise a collection of books bearing upon agricultureal and rural life and almost a complete series of Experimental Station publications.

The work of the department is expanding every year and the agricultural courses are so correlated with the courses of other Departments that it is possible for all students if they so desire, to avail themselves of agricultural training. Besides the regular courses offered in the College of Arts and Sciences and the Three Years Course and One Year Course, all students in the Elementary Department are required to take agriculture as a part of their regular course. A special course in agriculture is also provided for students in the Normal Department who expect to become teachers in the schools of the State.

Through this department alone, the University hopes that its influence will touch thousands of homes in the State and by special courses and frequent conferences to promote the well-being and progress of the Negro farmers of the State.

## OUTLINE OF COURSES.

### AGRICULTURAL COURSES

Three regular courses in Agriculture are offered by the University with a view to meeting the differing needs of different classes of students and to promoting the agricultural development of the State. Students who have time to pursue an extended course in agriculture for the purpose of expert knowledge and those who have only a limited time in which to acquire elementary and practical knowledge of the science will be afforded every opportunity the University can provide in furtherance of their aims. Special encouragement will be given to young men already engaged in farming to avail themselves of the shorter courses offered.

The FOUR-YEARS COURSE is described on page 31.

#### First Year.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 1 (5) | English 2 (5) | English 3 (5) |
| Algebra 1 (5) | Algebra 2 (5) | Algebra 3 (5) |
| Agronomy 1 (5) | Agronomy 2 (5) | Agronomy 3 (5) |
| Horticulture 1 (5) | Horticulture 2 (5) | Horticulture 3 (5) |
| Blacksmithing 1(8) | Blacksmithing 2(8) | Wheelwrighting (8) |

#### Second Year.

| | | |
|---|---|---|
| English 4 (4) | English 5 (4) | English 6 (4) |
| Algebra 4 (3) | Algebra 5 (3) | Algebra 6 (3) |
| Physics 1 (6) | Physics 2 (6) | Insects (5) |
| Biology 3 (6) | Carpentry (8) | Gardening (5) |
| Field-work (5) | Drawing (2) | Botany (5) |
| Carpentry (8) | | |

#### Third Year.

| | | |
|---|---|---|
| English 7 (2) | English 8 (2) | English 9 (2) |
| Geometry 1 (4) | | Geometry 3 (4) |
| Animal Hus. 1 (5) | Geometry 2 (4) | Landscape Gardn'g (5) |
| Veg. Gardening (5) | Fertilizers (5) | Rural Economy (5) |
| Chemistry 1 (6) | Irrigation (5) | Feeds (5) |
| | Chemistry 2 (6) | |

## ONE-YEAR COURSE.

Students taking this course may become proficient in the rudiments of agriculture and may acquire mechanical and scientific training in the direction of systematic farming.

## OUTLINE OF COURSES.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English (5) | English (5) | English (5) |
| Arithmetic (5) | Arithmetic (5) | Arithmetic (5) |
| Animal Hus. (5) | Feeds and Feeding (5) | Poultry Craft (5) |
| Veg. Gardening (5) | Field Crops (5) | Fruit Growing (5) |
| Blacksmithing (8) | Carpentry (8) | Dairying (5) |
| Soils (5) | Stock-judging (5) | Insects (5) |

## Three-Years Course.

This course is designed to prepare students to be farm managers, superintendents and successful farmers.

Students completing satisfactorily this course will be given a certificate showing the work completed.

## OUTLINE OF COURSE

### First Year.

## DESCRIPTION OF COURSES.

Courses in English, Mathematics, Physics, Chemistry and Biology correspond to those offered in the Preparatory Department. See pages 70, 71, 72, 74, 78.

### Agronomy.

1. Relation of the soil to plants; physical properties of the soil; weight, color, texture, classification, origin and formation, and chemical and biological properties of the soil. 5 periods.

2. Barnyard manure—care and application—green crops used for manure; rotation and harvesting of crops. 5 periods.

3. Wheat—History, culture, production and use; corn—history, culture and varities; root crops; fiber crops, and miscellaneous crops. 5 periods.

### Animal Husbandry.

The care, management and breeds of horses, cattle, sheep and swine. Breeding, heredity: "In and in" breeding, selection, diseases and treatment.

### Fertilizers.

Commercial fertilizers; source of nitrogen, phosphoric acid, potash; their properties, care, use, application and effect.
5 periods.

### Field Work.

This embraces such work as the various courses require.

### Horticulture.

1. Orchard culture; pomaceous and drupaceous fruits; geography of fruit growing; temperature detriment, moisture and soil determinants; evolution of fruits; protection of fruits. 5 periods.
2. Fertilizing of fruit lands, planting of fruit grounds, selection of plants; diseases insects and spraying. Marketing of fruits. 5 periods.
3. Principles of pruning and healing and modes of training. Grape training and root pruning. 5 periods.

### Irrigation and Drainage.

Reasons for drainage; surface and underground drainage, materials for drains; rate of fall. Text: King. Irrigation. 5 periods.

### Landscape Gardening.

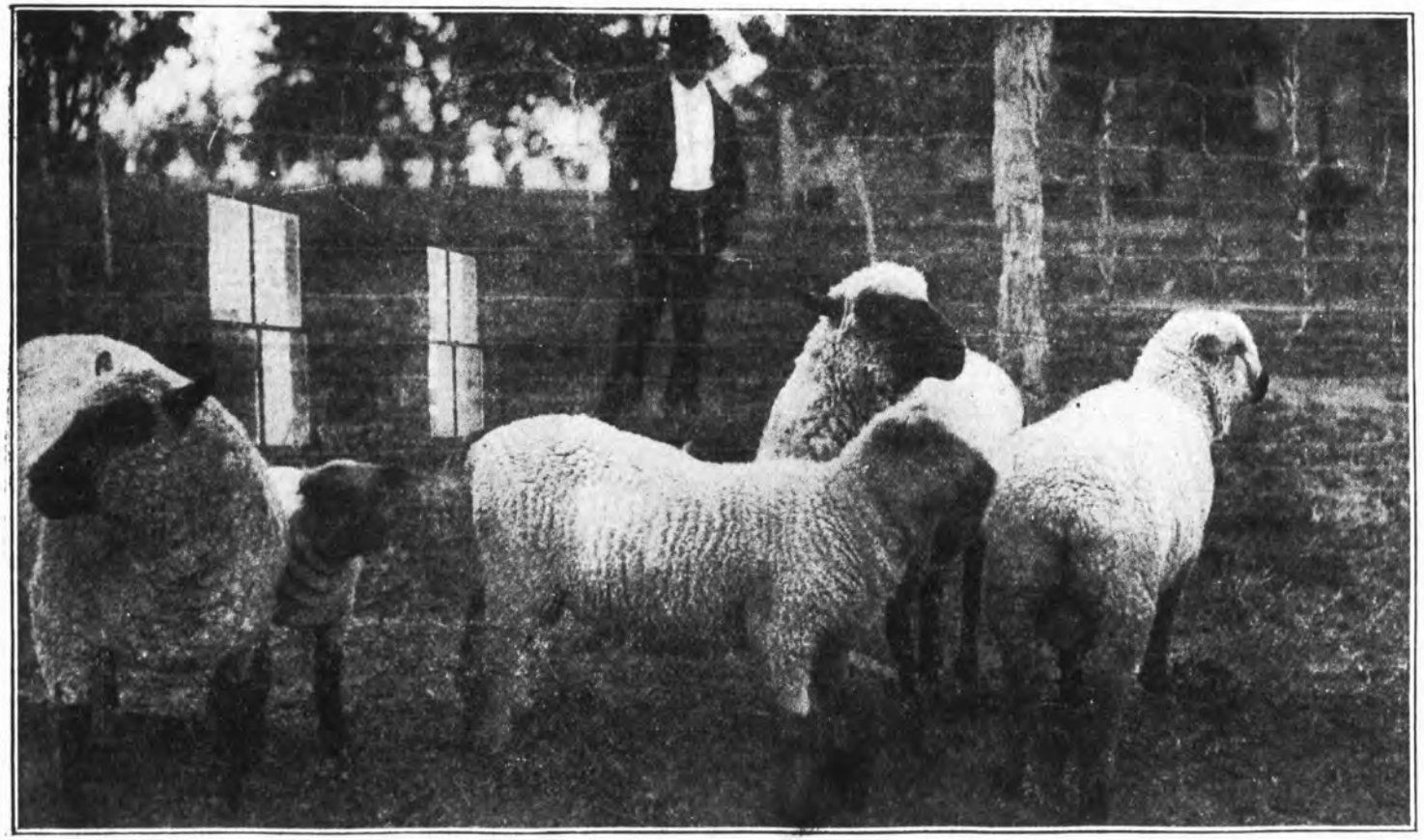
Principles, unity, finish, style of land; scope of designs, planting grounds, flowers, trees and shrubs. 5 periods.

### Vegetable Gardening

1, 2. Home Gardening; market gardening; trucking; equipment, capital; use of cold frames and hot beds; gardening tools, transplanting and storing vegetables. 5 periods.

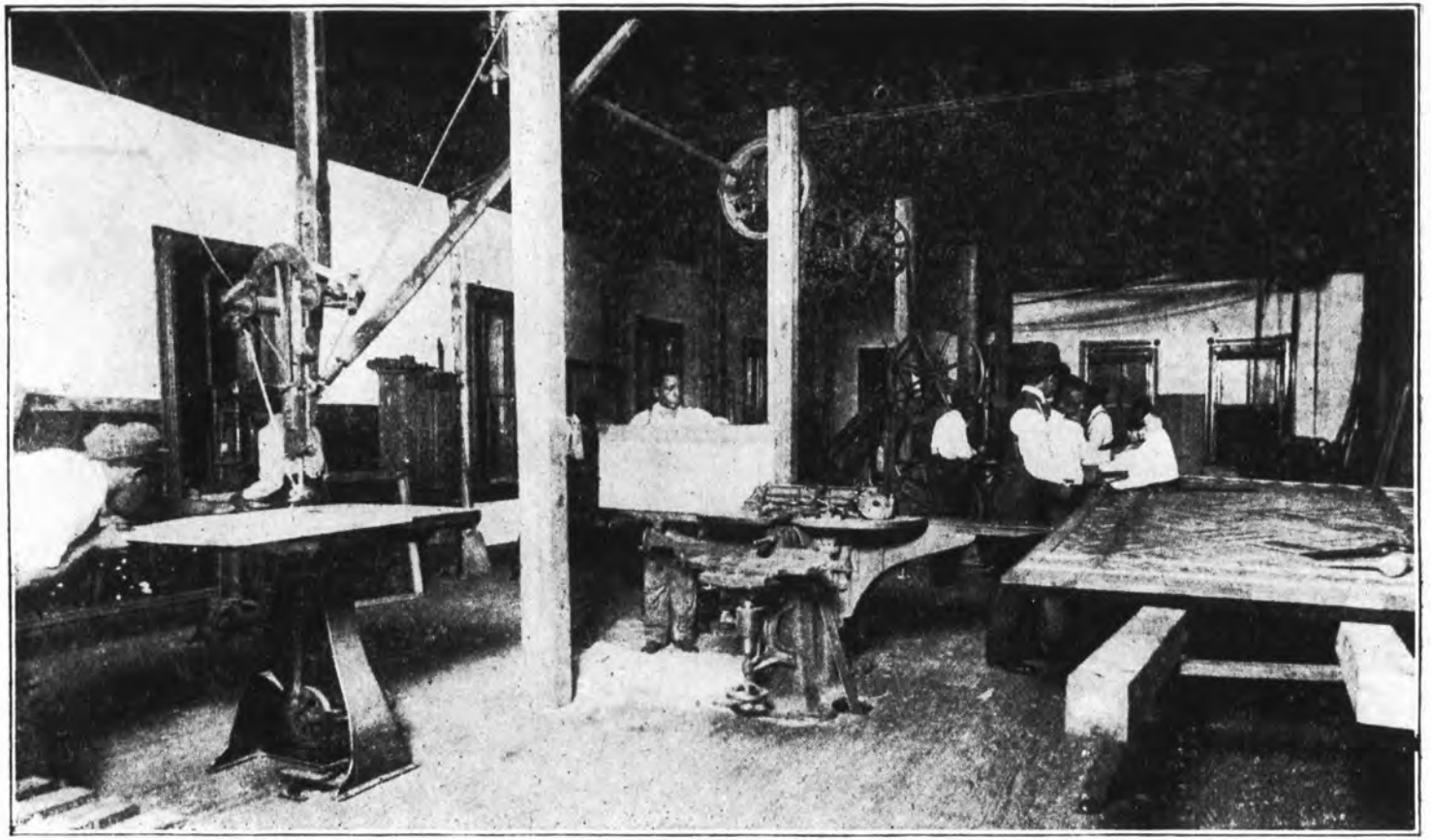
### Blacksmithing.

1. Pointing, drawing out, upsetting, bending, twisting and punching iron.
2. Scarfing and welding iron—corner, V, butt, T, jump, faggot and other welding. Welding steel and iron.
3. Making and tempering springs, chisels, punches, screw drivers and other tools.
4. Wheel-wrighting—wagon and buggy making and repairing.
5. Wheel-wrighting continued.
6. Productive work. Ornamental iron work.
7. Power forging. Running gasoline engine.
8. Horse shoeing, with lectures on hoof diseases and interference.
9. Tool making.
10. Drawing out, upsetting, punching, visting, bending, and welding iron. Forging and tempering steel.

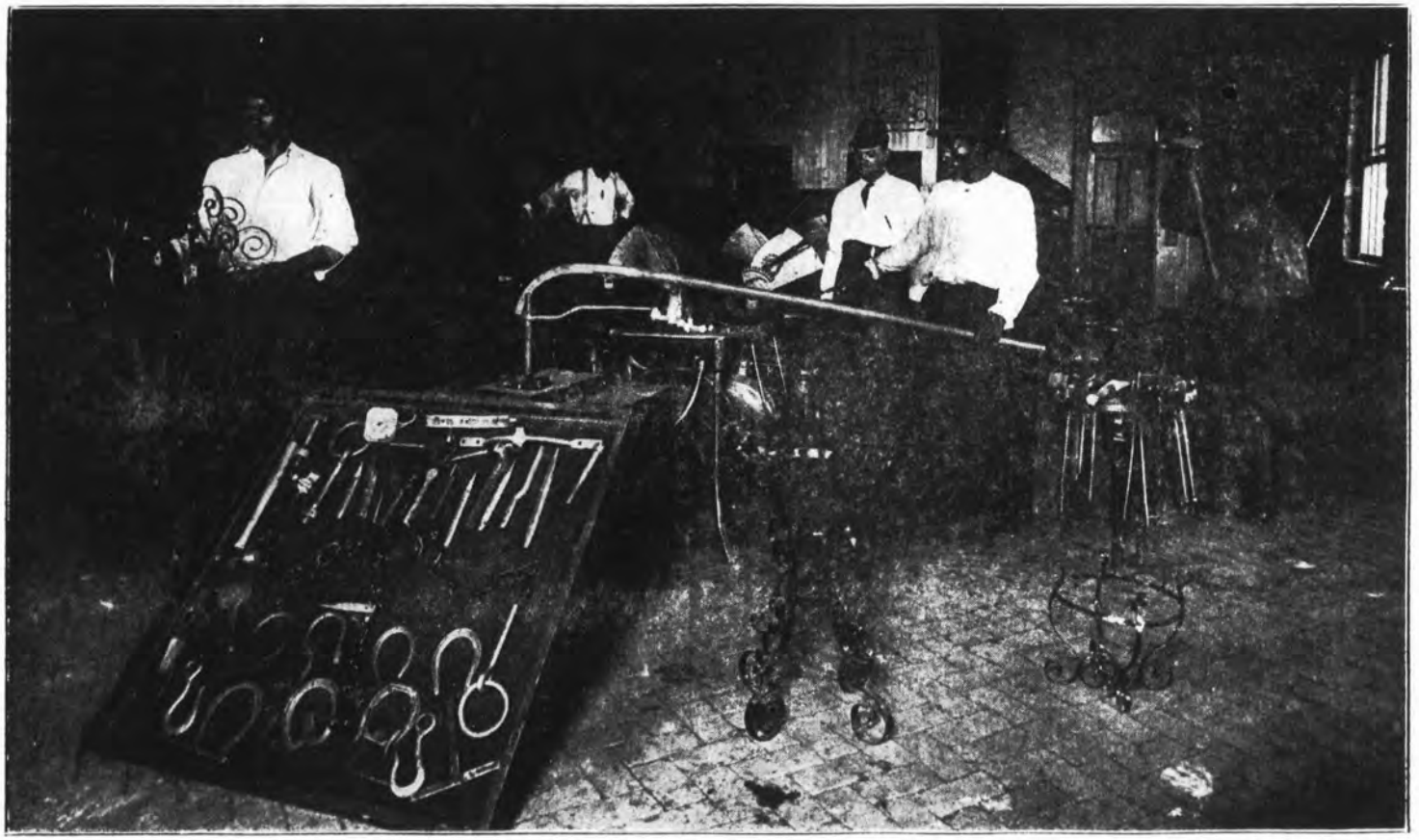


**FARM SHEEP.**

# DEPARTMENT OF MECHANIC ARTS



CARPENTER SHOP.



BLACKSMITH SHOP.

## *DEPARTMENT OF MECHANIC ARTS.*

The Department of Mechanic Arts offers courses in Engineering, Trades and Manual Training.

The Engineering Courses are described on page 29.

The Trade Courses taught are, Carpentry and Joinery, Machine Work, Blacksmithing, Steam Engineering and Foundry Practice and are open to young men who have completed the Eighth Grade.

The Russian system of tool instruction is followed as far as possible and correlated with work of a practical nature.

The Department also offers to all Academic students Manual Training Courses as follows: Wood-working, Forging, Machine Shop Practice, Foundry Practice, and Mechanical Drawing.

The American System of Manual Training is used.

Students completing satisfactorily any of the above Trades are granted a certificate. Persons who are not candidates for graduation, but who desire to pursue special work in any of the trades, are permitted to enter the same without taking the regular examination, provided they are able to do the work required.

Students who desire to take the trade courses must have completed the Grammar School course or its equivalent.

Trade students are required to work one half day Saturdays on work of a practical nature whenever their services are needed.

Students are required to purchase a set of drawing instruments. Cost of instruments is seven dollars.

### EQUIPMENT.

The machine shop is equipped with the following machinery, etc.: One Flather 12 in. swing engine lathe; one Draper 8 in. swing engine lathe, with quick change feed and taper turning attachment; one Cincinnati 6 in. swing engine lathe; one Bath universal grinding machine, with internal grinding attachment; one

Perkins 20 in. stroke geared shaper; one Fosdick 36 in. arm radial drill; one 10 in. upright drill; one Flather 24 in. x 72 in. planer; one Brainard universal milling machine No. 14½ with complete assortment of milling cutters; one power hack saw; one emery grinder; a complete assortment of hand tools, machinist's vises, etc.

The two wood-working rooms are equipped with twelve manual training benches with a complete set of tools for each; four cabinent maker's benches; six wood turning lathes; one Superior 36 in. band saw; one Bentel universal wood worker with boring attachment; one Beach jig saw; one Hall and Brown gang saw; one Seneca Falls Mfg. Co. foot power mortising machine; one power band saw filer, one sand papering machine; a complete assortment of all necessary hand tools.

The blacksmith shop is equipped with six Buffalo draft forges, one hand forge, one emery grinder; one post drill; one tire shrinker, one tire bender, one swage block, one 48 in. Buffalo exhaust fan, one Buffalo blast blower No. 6, and a complete assortment of hand tools.

The foundry has the following equipment: One Whiting cupola No. 2 with a capacity of 1½ tons of iron per hour, one Millets core oven, one Sturtevant blast blower No. 5, an assortment of hand tools, ladles, flasks, etc.

The power plant, electric lighting and central heating station has the following equipment: One 60 horse power high pressure boiler, one Skinner 50 H. P. automatic high speed engine with automatic oiling device, one Columbus 25 H. P. special electric gasoline engine, one 20 K. W. Edison dynamo, two Furman sectional cast boilers, one Cookson oil separator, feed water heater and filter, one Knowles boiler feed pump, one Snow automatic feed pump, one Fairbanks-Morse 8 in. x 24 in. deep well pumping engine, one 6 in. x 18 in. American deep well pump, all equipped with the usual accessories.

ORCHESTRA.

UNIVERSITY BALL TEAM

## TRADE COURSES.

The purpose of the Trade Courses is to prepare young men to become skilled workmen of the highest type, and to give them preparation which will enable them to reach the more advanced positions of foremen, contractors and builders.

## OUTLINE OF COURSES.

### Carpentry.

### First Year.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 1 (5) | English 2 (5) | English 3 (5) |
| Algebra 1 (5) | Algebra 2 (5) | Algebra 3 (5) |
| Joinery 1 (19) | Joinery 2 (19) | Joinery 3 (19) |
| Mechanical Drawing 1 (6) | Mechanical Drawing 2 (6) | Mechanical Drawing 3 (6) |

### Second Year.

| | | |
|---|---|---|
| English 4 (4) | English 5 (4) | English 6 (4) |
| Algebra 4 (3) | Algebra 5 (3) | Algebra 6 (3) |
| Physics 1 (6) | Physics 2 (6) | Physics 3 (6) |
| Free Hand Drawing 1 (2) | Free Hand Drawing 2 (2) | Free Hand Drawing 3 (2) |
| Joinery 4 (14) | Joinery 5 (14) | Joinery 6 (14) |
| Mechanical Drawing 10 (6) | Free Hand Drawing 11 (16) | Mechanical Drawing 12 (6) |

### Third Year.

| | | |
|---|---|---|
| English 7 (2) | English 8 (2) | English 9 (2) |
| Geometry 1 (4) | Geometry 2 (4) | Geometry 3 (4) |
| Chemistry 1 (6) | Chemistry 2 (6) | Trigonometry (3) |
| Joinery 7 (17) | Joinery 8 (17) | Joinery 9 (17) |
| Mechanical Drawing 13 (6) | Mechanical Drawing 14 (6) | Mechanical Drawing 15 (6) |

### Machine Work.

### First Year.

Same as Carpentry with exception of Machine Work, 1, 2 and 3 instead of Joinery 1, 2 and 3.

### Second Year.

| | | |
|---|---|---|
| English 4 (4) | English 5 (4) | English 6 (4) |
| Algebra 4 (3) | Algebra 5 (3) | Algebra 6 (3) |
| Physics 1 (6) | Physics 2 (6) | Physics 3 (6) |
| Free-Hand Drawing 1 (2) | Free-Hand Drawing 2 (2) | Free-Hand Drawing 3 (2) |
| Machine Work 4 (14) | Machine Work 5 (14) | Machine Work 6 (14) |
| Mechanical Drawing 4 (6) | Mechanical Drawing 5 (6) | Mechanical Drawing 6 (6) |

### Third Year.

| | | |
|---|---|---|
| English 7 (2) | English 8 (2) | English 9 (2) |
| Geometry 1 (4) | Geometry 2 (4) | Geometry 3 (4) |
| Chemistry 1 (6) | Chemistry 2 (6) | Trigonometry (3) |
| Machine Work 7 (17) | Machine Work 8 (17) | Machine Work 9 (17) |
| Mechanical Drawing 7 (6) | Mechanical Drawing 8 (6) | Mechanical Drawing 9 (6) |

## Blacksmithing.

### First Year.

Same as first year Carpentry with the exception of Blacksmithing 1, 2, and 3 instead of Joinery 1, 2, and 3.

| FALL TERM | WINTER TERM | SPRING TERM |
|---|---|---|
| English 4 (4) | English 5 (4) | English 6 (4) |
| Algebra 4 (3) | Algebra 5 (3) | Algebra 6 (3) |
| Physics 1 (6) | Physics 2 (6) | Physics 3 (6) |
| Free Hand Drawing 1 (2) | Free Hand Drawing 2 (2) | Free Hand Drawing 3 (2) |
| Blacksmithing 4 (14) | Blacksmithing 5 (14) | Blacksmithing 6 (14) |
| Mechanical Drawing 4 (6) | Mechanical Drawing 5 (6) | Mechanical Drawing 6 (6) |

### Third Year.

| | | |
|---|---|---|
| English 7 (2) | English 8 (2) | English 9 (2) |
| Geometry 1 (4) | Geometry 2 (4) | Geometry 3 (4) |
| Chemistry 1 (6) | Chemistry 2 (6) | Trigonometry (3) |
| Blacksmithing 7 (17) | Blacksmithing 8 (17) | Blacksmithing 9 (17) |
| Mechanical Drawing 7 (6) | Mechanical Drawing 8 (6) | Mechanical Drawing 9 (4) |

## Steam Engineering.

### First Year.

| | | |
|---|---|---|
| English 1 (5) | English 2 (5) | English 3 (5) |
| Algebra 1 (5) | Algebra 2 (5) | Algebra 3 (5) |
| Machine Work 10 (19) | Steam Engineering 1 (19) | Blacksmithing 10 (19) |
| Mechanical Drawing 1 (6) | Mechanical Drawing 2 (6) | Mechanical Drawing 3 (6) |

### Second Year.

| | | |
|---|---|---|
| English 4 (4) | English 5 (4) | English 6 (4) |
| Algebra 4 (3) | Algebra 5 (3) | Algebra 6 (3) |
| Physics 1 (6) | Physics 2 (6) | Physics 3 (6) |
| Steam Engineering 2 (8) | Steam Engineering 3 (14) | Steam Engineering 4 (8) |
| Mechanical Drawing 4 (6) | Mechanical Drawing 5 (6) | Mechanical Drawing 6 (6) |

### Third Year.

| | | |
|---|---|---|
| English 7 (2) | English 8 (2) | English 9 (2) |
| Geometry 1 (4) | Geometry 2 (4) | Geometry 3 (4) |
| Chemistry 1 (6) | Chemistry 2 (6) | Trigonometry (3) |
| Steam Engineering 5 (8) | Steam Engineering 6 (8) | Steam Engineering 7 (8) |
| Mechanical Drawing 7 (6) | Mechanical Drawing 8 (6) | Mechanical Drawing 9 (6) |

Numbers refer to the corresponding numbers in the Description of Courses.

Figures in parentheses indicate the number of recitation periods per week in the subject.

## DESCRIPTION OF COURSES.

### Carpentry and Joinery.

1. Planing to surface and square; measuring and sawing to plane; making half, dado, mortise and tenon, tongue and groove joints; proper care of edge tools.
2. Making bevel, miter, dovetail, scarf and other difficult joints.
3. Wood turning between centers—centering, roughing with gouge, calipering, smoothing straight with skew chisel, turning concave with gouge, convex turning with chisel, etc.
4. Woodturning—face plate work, chuck and mandrel work, shellac polishing. Pattern making.
5. Scroll and band sawing.. Cabinet making—furniture design, panel work, drawer work, etc.
6. Cabinet making—making selected pieces of furniture.
7. Building construction—balloon framing, mortise and tenon framing, making door and window frames, etc.
8. Stair building, inside finishing, etc.
9. Painting and varnishing. Mill work—filing and sharpening, moulding, etc.

### Machine Work.

1. Bench work—chipping with cape anl cold chisel, filing to a plane surface, squaring, filing to line and exact dimensions, cutting key ways, making sliding fit, dove-tailing, hack sawing, thread cutting, etc.
2. Lathe work—Turning plain and taper cylinders, free hand turning, eccentric turning, thread cutting, etc.
3. Lathe work—Chuck and mandrel work. Drilling and drill press work.
4. Planer and shaper—key ways and keys, bevels, cotters and dove-tails, etc.
5. Tool making—milling, grinding, etc.
6. Tool making continued.
7. Cutting spur and bevel gears. Machine construction.
8 and 9. Machine construction continued.
10. Bench work, including chipping, filing, hack sawing and

thread cutting. Steam fitting—cutting and threading pipe to drawings, installing of piping, valves, etc.

## MECHANICAL DRAWING.

1. Penciling, inking and joining straight and curved lines. Free-hand lettering. Talks on use and care of instruments.
2. Six plates of geometrical problems of practical application.
3. Six plates free-hand sketching of models. Three plates line stading of cylinders, cones, etc.
4. Orthographic projection—projection of points, lines, discs, solids. Development of surfaces.
5. Isometrical perpective—cubes, cylinders, prisms, etc.
6. Working drawings, cross sections, shading, conventional methods.
7. Machine drawings, screws, belts, gearing.
8. Machine design and working drawings for same.
9. Machine design, etc., continued.
10. Orthographic projection. Development of surfaces. Isometrical perspective.
11. Architectural details—frame buildings.
12. Architectural details—brick buildings.
13. Lectures an planning houses. Original house plans.
14. Estimating materials, time and labor in building construction.
15. Writing specifications and contracts. Building laws.

## FREEHAND DRAWING.

1. The work for this term will be pencil work in Outline Drawing: Shading and the drawing of Geometrical models.
2. The work will be Designing and Charcoal Work.
3. The work will be entirely on water-color.

## STEAM ENGINEERING.

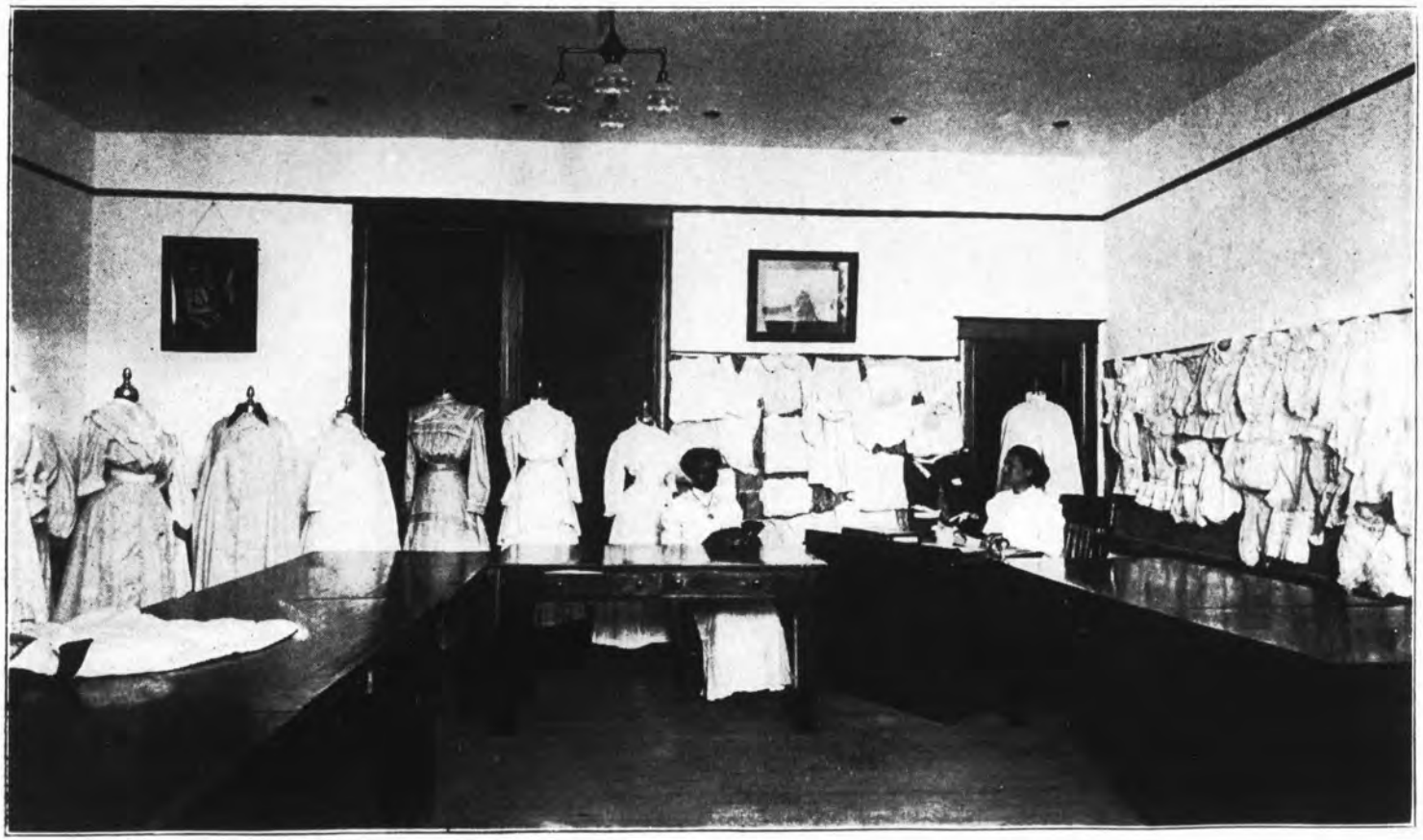
1. Practical operation of steam engine, gasoline engine, etc.
2. Development of steam engine. Mechanism of the steam engine.
3. Properties of steam. Steam tables. Practical operation of steam and gasoline engines, dynamos, pumps, etc.
4. Theory of simple and compound steam engines. Valve diagrams, setting valves, etc.
5. Types and design of steam boilers. Steam heating and ventilation.
6. Composition, etc., of coal. Theory of combustion of coal. Methods of Firing. Practical operation of power plant.
7. Boiler management. Feed water impurities, etc. Boiler tests. Taking indicator diagrams.

For description of courses in English, Algebra, Geometry, Physics, and Chemistry see Description of Courses in Preparatory Department.

DINING ROOM DEPARTMENT—DOMESTIC SCIENCE

# DEPARTMENT OF DOMESTIC ECONOMY

DEPARTMENT OF DOMESTIC SCIENCE



DEPARTMENT OF DOMESTIC ECONOMY

## *DEPARTMENT OF DOMESTIC ECONOMY.*

The Department of Domestic Economy aims to give young women the kind of education which they need to enable them to properly discharge the duties and bear the responsibilities of home life. The work is so conducted as to give them not only the practical knowledge and dexterity which they will need in presiding over their homes, but also the intellectual and moral benefits which naturally follow manual and industrial training. Inasmuch as many women are obliged to depend entirely upon their own resources, instruction is given in this department with a view to making it possible for them to become independent by earning a livelihood in the trades of their choice.

Courses are offered in Domestic Science and Domestic Art. The purposes and methods of all the courses are educative, affording training through motor activity, which is one of the principle educative functions of manual training.

The courses offered are as follows:

Domestic Science: Cookery; Marketing; Serving and Household Economics.

Domestic Art: Plain Sewing, Dressmaking and Millinery.

Those who finish any of the above courses satisfactorily are given certificates to this effect.

This department is equipped with a school kitchen, suitable to provide the best facilities of class-work, individual and co-operative, and a furnished dining room for practical serving. The Domestic Art classes are equipped with sewing machines and other appliances suitable for good work.

## DESCRIPTION OF COURSES.

### DOMESTIC SCIENCE.

**Foods and Cookery.**

A systematic study of the principles and methods involved in the preparation of foods, care of kitchen, table-setting and serving.

**Serving.**

This course is given to the advanced classes and consists of instruction in the following subjects: Table-laying; serving of breakfast, luncheon and dinner; laundering; preparation of beverages, salads and desserts, and general care of dining-room.

**Household Economics.**

Instruction is given in the selection, purchase, preservation, preparation, construction, decoration and equipment of a house.

### DOMESTIC ART.

**Course in Plain Sewing.**

This course is intended for girls who know practically nothing about hand sewing.

With the primary sewing, this course includes the drafting, cutting, fitting and making of ten garments.

All students taking sewing must be provided with tape-line, thimble, needles, pins, scissors, emery bag, two yards of white domestic and white apron.

**Special Students.**

Only girls of the eighth and higher grades are admitted as candidates for graduation. Students below the eighth grade who wish to specialize may do so, but are not given certificates.

### FIFTH GRADE.

**Fall Term.**

Use of tape line and sewing implements; running stitches; basting. The over-casting stitch; hemming. 1, 2, and 3. History of needles.

### Winter Term.

Back-stitching, half-stitching, combining stitching; blanket and flannel stitches. First lesson in button-holes. History of thimbles.

### Spring Term.

History of sewing. Study of material and practice work. Darning, 1, 2 and 3. Patching, 1, 2, and 3. Practice piece and review. History of pins.

### Fall Term.

Bands, gathers and gussets. Cloth darning and matching stripes. Button-holes, eyelets, sewing on buttons, hooks and eyes. Taking measures, drafting, drafting patterns with tape line and ruler, cutting. Review of stitches in making garments.

### Winter Term.

Taking measurement and drafting a child's pattern. Making the child's garment. Review of work of the first term.

## SIXTH GRADE.

### Spring Term.

Taking measurements and drafting patterns. How to regulate machine, cutting and making the garment. Free hand curves Drafting continued. Cutting and making the garment. Review of work of first term. Cutting and making the garment which furnishes the lady's suit.

## DRESSMAKING.

The room for dressmaking is fitted with large tables for drafting, tracing and cutting and with sewing machines, dress forms, mirrors, books of modes and library of reference books relative to the different subjects taught. Applicants must have completed the course in plain sewing or must pass an examination to prove their knowledge of hand and machine sewing and their ability to make simple garments before they are admitted to take the course in dressmaking. All students taking sewing must be provided with tape line, thimble, needles, pins, scissors, emery bag.

## SEVENTH GRADE.

### Fall Term.

Taking measure and drafting skirt patterns, boys' pants patterns, cutting and making boys' jacket patterns. Cutting and making men's underwear.

### Winter Term.

Cutting and making men's underwear. Embroidery of flannels. Color lessons. Review work. Drafting waist and sleeve pattern. Cutting and making same.

### Spring Term.

Drafting a dress skirt pattern. Cutting and economy of material. Cutting and making a dress. Practice work. Lessons on purchasing material. Review.

## EIGHTH GRADE.

### Fall Term.

Review of plain sewing. Lessons on material for church. Material for street and home work. Review of colors. How to face and put on bindings. How to sponge and press silks and velvets. Economy of dress and how to shop. Lecture on useful rather than showy material.

### Winter Term.

How to draft a waist. How to draft and fit sleeves. How to draft a five-gored skirt. How to draft a seven-gored skirt. Trimmings or accessories for dresses.

### Spring Term.

How to take measures and draft patterns for shirt waist. How to fit and make a waist. Combining colors. How to draft, cut and make a wrapper. Cutting paper wrappers for practice. Practice work.

## NINTH GRADE.

### Fall Term.

Cutting and making paper dresses. How to baste velvets and silks to linings. How to finish lined dresses. Ancient and modern styles. Review.

### Winter Term.

Theory lessons reviewed on silks, velvets and fine material. How to fit deformed figures. Practice embroidery work and crocheting. Fancy stitches.

### Spring Term.

Theoretical and practical work done independently of teachers. Review. Lessons on tailoring. Tailoring as done by dressmakers. Review. Practice.

## MILLINERY COURSE.

Girls who know how to do neat hand sewing are admitted into the millinery class.

All applicants must furnish their own material.

### Fall Term.

Foundation of a hat and how to trim a hat. How to make and trim a shirred winter hat. How to make and trim small velvet hats. How to wire ribbon. Combining colors.

### Winter Term.

How to make and trim small velvet bonnets. How to make and drape straw hats. Points on millinery. How to make shirred summer hats.

### Spring Term.

How to brace and trim Leghorn hats. How to make mourning bonnets. Arranging trimmings. How to make bows and bandeaus. How to make and wire frames.

# DEPARTMENT OF MUSIC

GLEE CLUB.

## *DEPARTMENT OF MUSIC.*

This department offers work in vocal and instrumental music to those pursuing regular courses in other Departments of the University and to special students.

Vocal Music is required of all regular students in the Normal, Preparatory and Elementary Departments as a minor course. Special work is given in voice building, modulation and execution. Music for public exercises is prepared.

One afternoon in each week work in chorus singing is done by those who are sufficiently advanced for such work. Also the Glee Club meets once a week.

Piano courses are provided for as many students as can be accommodated.

Instruction on wind instruments and the violin is provided with a view to orchestra and band playing. The University Band and Orchestra practice twice each week.

### COURSE IN VOCAL MUSIC.

#### First Preparatory.

Key signatures viewed from the standpoint of the order of intervals. Key building in all major keys and the relative minor keys named. Familiarize students with the forces giving origin to the different classes of music, noting relation of purpose to structure. Note the place of emotion in music. Part 2. Note singing continued, with new examples and varieties of pitch, force, quality and movement. Complete the practical principles and theory of vocal music as preparatory to sight reading. Text: "Song Monarch."

#### Advanced Course.

Review of all work in preceding years. Sight reading, discussions of different phases of music, transposition of selections, analysis of some of the very best classic and modern music.

## PIANOFORTE COURSE.

### Elementary.

Landron's Pianoforte Method, F. Beyer, Bk. I. E. D. Wagner, finger exercises, scales, easy pieces.

### Intermediate.

Studies by Czerny, Preyer, Burmuller, Low, Krause and others. Harmonic and melodic minor scales. Octave studies. Sonatas by Hayden and Mozart. Pieces by Bach, Chopin, Schubert, etc.

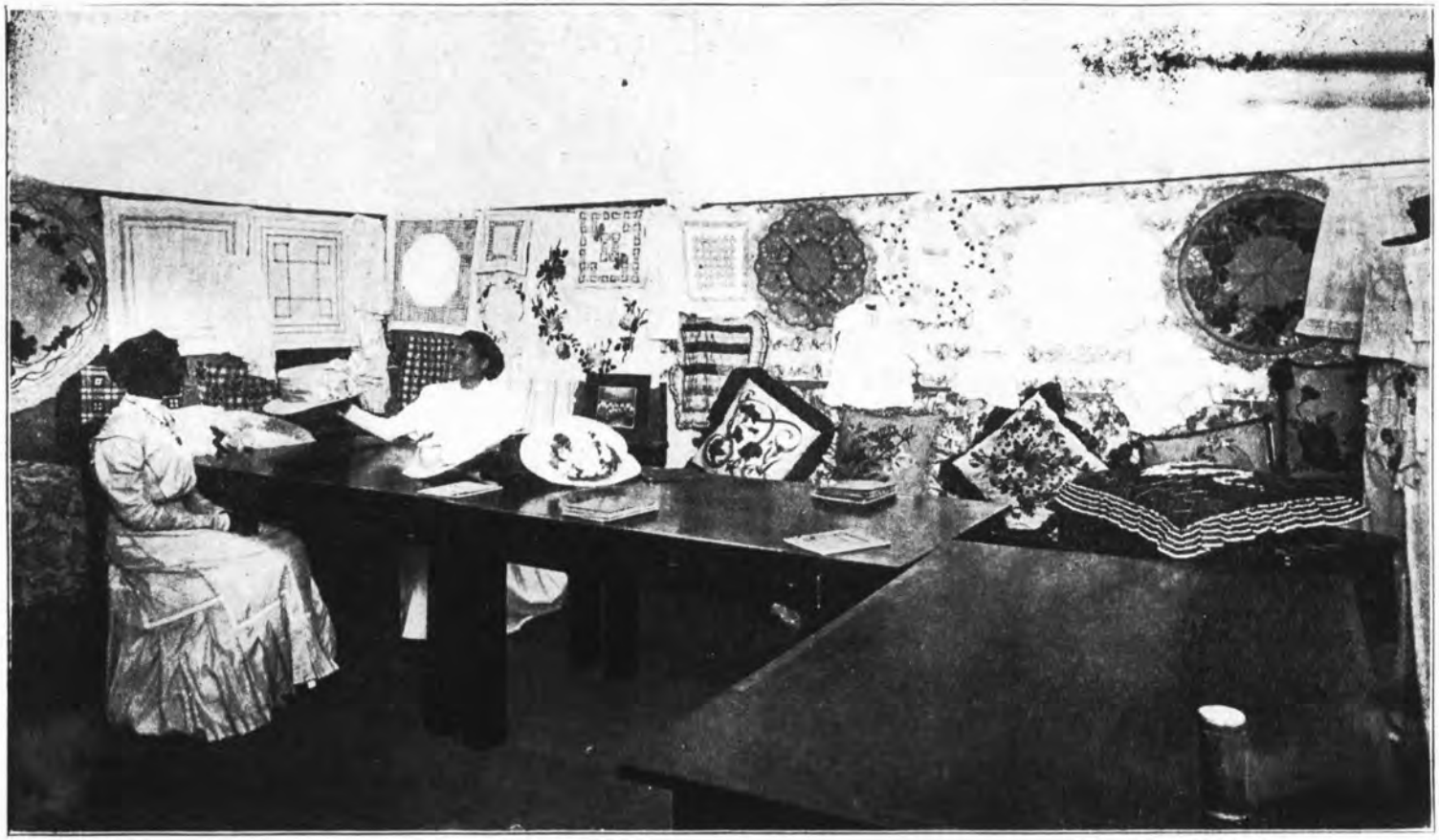
### Advanced.

Studies by Plaidy, Czerny, Clementi; pieces by the modern composers and Beethoven, Mendelsshon, Chopin, Rubenstein and others.

CHORUS

CLASS IN DOMESTIC SCIENCE

# COMMERCIAL DEPARTMENT



EXHIBITION DEPARTMENT, DOMESTIC ECONOMY.

## *COMMERCIAL DEPARTMENT.*

Recent years have witnessed rapid commercial development among the Negroes of the United States, and in Oklahoma their business interests and activities are varied and important, requiring the services of young men and women especially equipped with business training as well as general education. The Commercial Department has been established by the University for the purpose of providing both technical business training and a general education for those who wish to fit themselves for business life.

Two courses are offered—a Four-Years Course and a Two-Years Course—designed to meet the needs of two distinct classes of students. The Two-Year Course is designed for mature and advanced students who desire to fit themselves for a business career in a reasonably short period of time. Candidates for this course will be expected to have done satisfactorily two years of high school work or the equivalent to pass a satisfactory examination in the same. A certificate is given to students completing this course.

The Four-Year Course is designed for thase students who have the time and the inclination for a general education in addition to the technical business training. Candidates for this course must have completed the common school course. No student will be allowed to enter upon this course who is not capable of passing a rigid examination in the subjects studied in the eighth grade. Common school certificates will have weight as evidence of studies pursued, but will not necessarily exempt students presenting them from examination.

Students completing this course will be given a diploma.

## OUTLINE OF COURSES.

### Four Years Course.

FIRST YEAR

English 5
Mathematics 5
Spelling 3
Penmanship 4
Bookkeeping 4
Manual Training 4

SECOND YEAR

English 4
Mathematics 4
History 3
Commercial Arithmetic 5
Bookkeeping 6
Manual Training 4

THIRD YEAR

English 2
Com. History and Geography 5
Commercial Law 4
Stenography 5
Type-writing 10
German, French or Spanish 4
Agriculture 3

FOURTH YEAR

English 2
Physics 5
Economics and Civics 4
Stenography 5
Typewriting 10
German, French or Spanish 4
Com. Review 2
Public Speaking 2

### Two Years Course.

FIRST YEAR

English 2
Com. Arithmetic 5
Penmanship and Bookkeeping 8
Stenography 5
Typewriting 10
Com. Geography and History 4
Manual Training 4

SECOND YEAR

English 2
Commercial Law 4
Bookkeeping 4
Stenography 5
Typewriting 10
Civics and Economics 4
Agriculture 3
Com. Correspondence and Advertising 3.

## DESCRIPTION OF COURSES.

### English.

The courses in English correspond to those required in the Preparatory courses. See page 72.

### Mathematics.

The courses in mathematics are the same as 1, 2. 3, of the First and Third Year Preparatory respectively. See page 74.

### Commercial Geography.

This course embraces a general study of the great commercial movements of the world, the principal commercial nations; the


MUSIC ROOM.

basis of commerce and its expansion; the location and distribution of products, means of transportation, the world's industries and markets. Special attention is given to the commerce of the United States, local and interstate. 5 periods.

### Economics and Civics.

These courses are the same as those offered on pages 60 and 76.

### Commercial Arithmetic.

The aim of this course is to develop arithmetic as a language of business and as a means of interpretation and study of business conditions and involves the study of business papers through arithmetic and the cultivation of the capacity properly to present and tabulate facts by figures and by graphs.

The following special subjects are treated in the manner described above: United States money, percentage; profit and loss; storage; trade discount; custom-house business; commission; insurance; taxes; interest; banking; accounts; partnership, etc. 5 periods.

### Commercial Law.

The work will embrace the following:

General Principles of Law, Contracts, Negotiable Paper, Agency, Partnership, Corporations, Bailments, Sales, Insurance, Real Estate Transfers, etc. 4 periods.

### Bookkeeping.

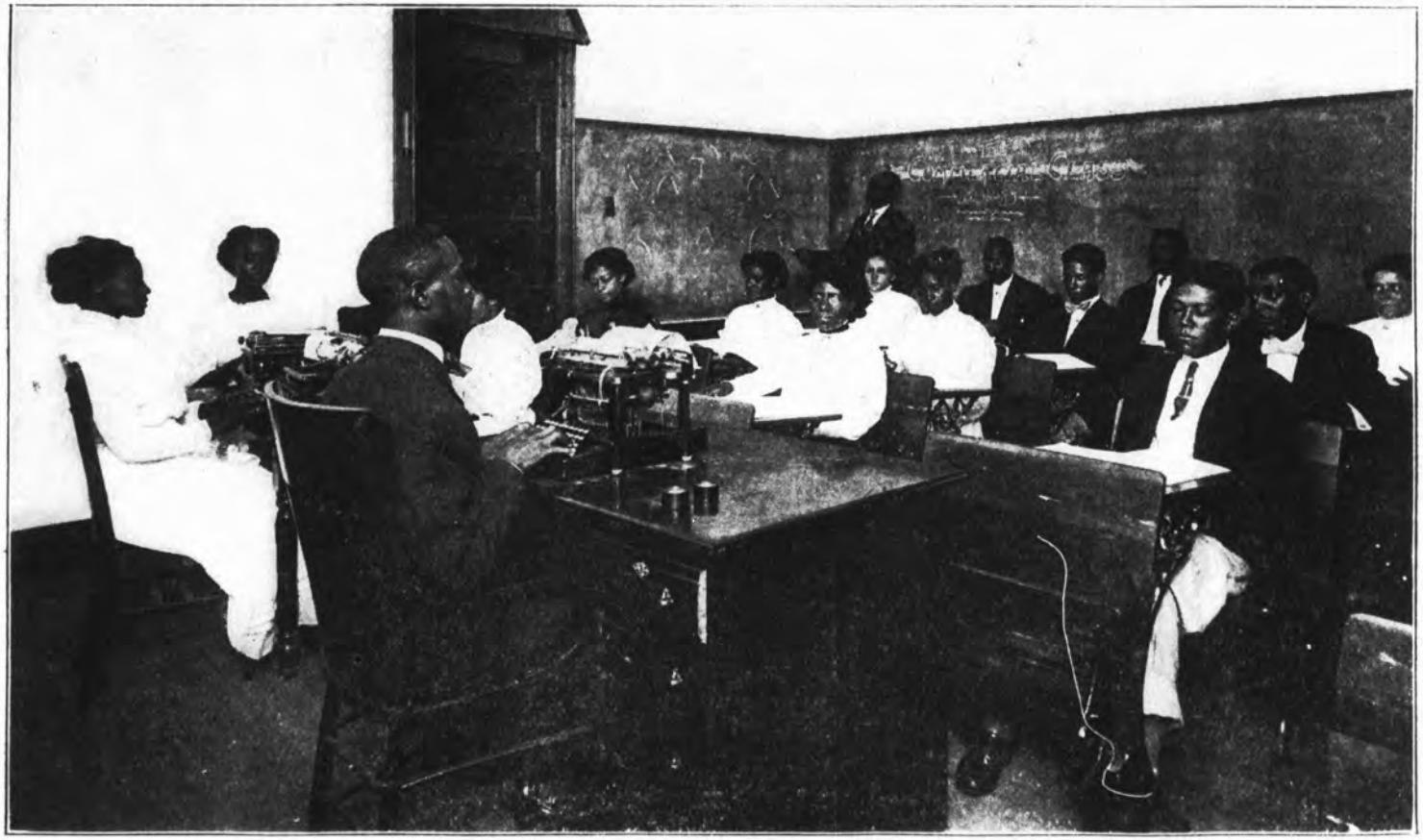
The work will embrace the use of customary books; rules of journalizing; opening and closing accounts; commercial paper; practice in rendering statements; double entry contrasted with single entry; balance sheets; rendering of bills and handling of discounts, etc. 6 periods.

### Typewriting.

The aim of this work is to give the student information about

the mechanical points of the machine, a correct idea of the best systems in use and to acquire speed. Both the "touch" and "piano" methods will be taught. 10 periods.

The system taught will be the "American System."



COMMERCIAL DEPARTMENT.

# NURSE TRAINING DEPARTMENT

NURSE TRAINING DEPARTMENT.

## *NURSE-TRAINING DEPARTMENT.*

The Board of Regents realizing the great need of trained nurses and the vast amount of good that an efficient trained nurse exerts in any community in improving conditions in private and public hygiene and sanitation, and realizing further that it is a not over-crowded field, giving an opportunity to young women to improve their condition and be a blessing to the commonweal, added a Nurse-Training Department to the University.

They have made arrangement for giving a three years' training to those desirous of becoming trained nurses.

Those wishing to enter this department should apply personally or by letter to the President of the University.

The letter of application should be accompanied by a physician's certificate of sound health and unimpaired mental faculties and two certificates of good character, one of which should be from a clergyman.

Applicants should be between the ages of twenty and forty and of average height and physique.

Applicants must be able to read aloud well, to write legibly and accurately from dictation, to understand arithmetic, including fractions and percentage, and to take notes at lectures.

Applicants who are approved will be admitted on probation for three months, when, if having proved their fitness, they will be enrolled as student nurses, and be permitted to wear the uniform of the school.

The right is reserved to terminate the course of any student nurse at any time for inefficiency, misconduct or for any other reason which may be deemed sufficient by those in authority.

Nurses are required on entering the school to deposit with the President the amount of their return fare home.

In sickness the student nurses will be cared for, but the time lost must be made up.

After three months of probation, pupils are required when on duty to wear dresses of dark blue check gingham, white collars and cuffs, white aprons and white caps. These must be made at the school. The wearing of jewelry or ornaments with uniform is forbidden.

Probationers must be provided with comfortable rubber-heeled shoes, a warm wrapper, a water-proof, pair of rubbers, an umbrella, two clothes bags, one shoe bag, a pair of scissors, one napkin ring (marked), ten white aprons, two plainly made dark blue gingham dresses, a watch with second hand, and eight bishop collars which should be purchased after coming that the style may be uniform. Aprons should be made of bleached muslin, width two yards, length one and one-half inches shorter than dress; bottom hem six inches wide, fastened with two pearl buttons or studs; aprons to be gathered on bands, leaving a four inch space at the back. All clothes must be marked with the full name.

A thorough course of instruction, practical and theoretical, will be given by the resident and visiting physicians and the superintendent of nurses.

A regular course of lectures, recitations and demonstrations is given, with frequent examinations to determine the fitness of the student to continue the course. Except under special circumstances, failure to pass the examinations shall be considered sufficient cause for the termination of a student's connection with the school.

After the full term of training is completed and the examination passed, the nurses receive a diploma and the pin of the school, and are free to choose their own field of labor.

Tuition is free; in regard to board this department is governed by the same general rules that apply to other departments of the University.

# REGISTER OF STUDENTS

## COLLEGE OF ARTS AND SCIENCES.

### SCIENTIFIC COURSE.

#### Senior Year.

| | |
|---|---|
| Roberts, Joseph Eggleston, | Langston |
| Sadler, Samuel Levi | Muskogee |

#### Freshman Year.

| | |
|---|---|
| Covington, Charles Phillip | Louisiana, Mo. |
| Spraings, Malinda Vandola | Guthrie |

### CLASSICAL COURSE.

#### Sophomore Year.

| | |
|---|---|
| Waterford, Sadie Roberta | Muskogee |

### NORMAL DEPARTMENT.

#### Junior Year.

| | |
|---|---|
| Curtis, Addie Marie | Lexington, Mo. |
| Graham, Charles David | Lexington, Mo. |
| Jones, Juanita Alberta | Lexington, Mo. |
| Johdan, Harriet Juanita | Dallas, Tex. |
| White, Cora Mae | Lamar, Colo. |

### PREPARATORY DEPARTMENT.

#### Fourth Year.

| | |
|---|---|
| Abernathy, Louis Holman | Lawton |
| Baker, Maud Elizabeth | Coalgate |
| Brown, Daisy Inez | Boynton |
| Campbell, Maybell Gertrude | Langston |
| Harris, Irene Alpha | Langston |
| Smith, Virginia Mary | Chickasha |

#### Third Year.

| | |
|---|---|
| Brown, Willa Mae | Wewoka |
| Byers, Frances Amelia | Crawfordsville, Ark. |

| | |
|---|---|
| Drake, Viola Belle | Buck |
| Foster, Anthon | Kaufman, Tex. |
| Freeman, Junius Lee | Eufaula |
| Jones, Nelson Andrew | Langston |
| Jones, Theodosia | Meeker |
| Jones, Walter Adelbert | Langston |
| Lewis, Alonzo | Perry |
| Lyon, Mack , | Okmulgee |
| Martin, Harry Herman | Pawnee |
| Pressley, Levi Walton | Muskogee |
| Reece, Jessica Mildred | Guthrie |
| Strong, Elizabeth | Shawnee |

**Second Year.**

| | |
|---|---|
| Anderson, Donnie Pearl | Guthrie |
| Benningfield, Jessica Erline | Grayson |
| Edwards, Arthur | Guthrie |
| Fletcher, Aaron | Atkins, Ark. |
| Fuhr, Antoine | Oklahoma |
| Gibbs, Margaret | Langston |
| Johnson, Chester Frederick | Perry |
| King, Charles | Kingfisher |
| King, Viola Corine | Muskogee |
| Minter, Olive Bell | Muskogee |
| Nixon, Ambrosia | Hennessey |
| Paynter, Verden Townsend | Washington, D. C. |
| Perry, Alma | Boley |
| Reed, Willis Augustus | Langston |
| Roselle, Alberta | Temple, Tex. |
| Sanborn, Edith Corin | Anadarko |
| Stephens, Romeo Bonaparte | Luther |
| Tyler, Julius | Kingfisher |
| Wadley, Hugh | Udora |
| Whitlow, Frederick Ernest | Langston |
| Wright, William Baxter | Langston |

**First Year.**

| | |
|---|---|
| Alexander, William | Guthrie |
| Anderson, Lucinda | Luther |
| Bilbrew, Watson. | Los Angeles, Cal. |
| Bingaman, James | Boley |
| Blackwell, Rheta Rhoweta | Wellington, Kansas |
| Bowie, Chauncey | Boley |
| Bradley, Adam | Earlsboro |
| Burres, Mary Belle | Pawnee |
| Chase, Frances Belle | Ft. Gibson |

| | |
|---|---|
| Cooper, Eliza Salina | Ft. Gibson |
| Crump, Sadie Ida | Enid |
| Cooper, Margaret Vivian | Ft. Gibson |
| Curd, Albert Curtis | Perry |
| Dillard, Edward Aubrey | Ardmore |
| Dobson, William | Anadarko |
| Downs, Susan | Newkirk |
| Edwards, Lonnie Mabel | Guthrie |
| Epps, Frances | Texarkanna, Tex. |
| Floyd, Elizabeth | Guthrie |
| Foster, Allie Lucy | Kaufman, Tex. |
| Garcia, Iva Otha | Lenapah |
| Giddings, Maud | Langston |
| Goodlow, Nola | Langston |
| Gordan, Mary, | Dover |
| Harris, Rheta Muriel | Langston |
| Holt, Alice Gertrude | Enid |
| Jefferson, Caroline Agatha | Langston |
| Kirk, Grace | Langston |
| Lawson, Willie | Sulphur |
| McGowan, Priscilla | Red Bird |
| Mann, Porter Major | Grayson |
| Mitchell, Alice Thora | Wellston |
| Mitchell, Leland Standford | Boynton |
| Neal, Lewis | Langston |
| Partee, Ann | Tulsa |
| Rogers, Eugene Clifford | Kingfisher |
| Sanborn, Charles | Anadarko |
| Scott, George | McAlester |
| Thomas, William Carson | Argenta, Ark. |
| Thornton, Paul Edward | Bochita |
| Turner, Ethel Mae | Boley |
| Virtis, Cassius | Tulsa |
| Yeldell, Augusta Lee | Luther |
| Yeldell, Era Talisia | Luther |

## SPECIAL.

| | |
|---|---|
| Bassett, Blanche | Coffeyville, Kan. |
| Capers, Henry Robert | Guthrie |
| Graham, William Wendell | Guthrie |
| Holmes, John Wendell | Auburn, Tex. |
| Long, Robert | Guthrie |
| Webber, Estelle Mae | Okeene |
| Webber, Leonora Beatrice | Okeene |
| Woods, Holsia | Guthrie |

## DEPARTMENT OF MECHANIC ARTS.

### Trade Students

| | |
|---|---|
| Bannarn, Goree | Wetumka |
| Bassett, John | Ft. Scott, Kansas |
| Brown, Charles | Wetumka |
| Cobb, Penman | Springer |
| Denman, Green | Nayland, Tex. |
| Johnson, Joseph | Wewoka |
| Jordan, James | Fallis |
| Lackey, Sevalia | Sulphur |
| Manning, Albert | Chandler |
| Mays, Homer | Coweta |
| Oden, Alva | Guthrie |
| Pollard, Grover | Seward |
| Rhodes, Thomas | Langston |
| Riley, Hosea | Gainesville, Tex. |
| Smith, William | Wewoka |
| Stroud, Thomas | Hernando, Miss. |
| Taylor, George | Boley |

## DEPARTMENT OF DOMESTIC ECONOMY.

| | |
|---|---|
| Adams, Laura | Ft. Scott, Kansas |
| Bowen, Etheleen | Luther |
| Brooks, Lena | Langston |
| Connell, Elizabeth Agnes | Atchison, Kansas |
| Flowers, Malinda | Coweta |
| Harris, Olive | Langston |
| Harrison, Bertha | Haskell |
| Hickman, Nannie | Luther |
| Hutchins, Edna | Tulsa |
| Jefferson, Edith Josephine | Langston |
| Johnson, Eula Sedalia | Speegleville, Tex. |
| Jones, Laura Amie | Langston |
| Jones, Letha Celia | Langston |
| Lee, Rosa | Boynton |
| Lott, Leonora Anna | Hennessey |
| McClemon, Mary | Waco, Texas |
| McConnell, Ella | Byers, Texas |
| Mays, Caroline | Coweta |
| Neal Cora Belle | Tulsa |
| Portwood, Beulah | Langston |
| Powell, Martha | Iconium |
| Rush, Ethel | Shawnee |

| | |
|---|---|
| Smart, Missy | Oklahoma |
| Snellgrow, Anna Belle | Langston |
| Suddith, Elizabeth | Coweta |
| Taylor, Imogene Ruth | Langston |
| Toliver, Julia Lee | Guthrie |
| Vann, Ella | Vian |
| Williams, Laura Beebe | Guthrie |

## NURSE TRAINING DEPARTMENT.

| | |
|---|---|
| Baker, Roberta | Coalgate |
| Hunter, Mayme | Okarche |
| Martin, Margaret | Ferguson |
| Miles, Mary | Kingfisher |

## ELEMENTARY DEPARTMENT.

### Eighth Grade.

| | |
|---|---|
| Allen, Lloyd Earl | Bison |
| Amos, Viola Henrietta | Langston |
| Banks, Estella | Haskell |
| Barnett, Elnora | Boley |
| Briggs, Thurston | Muskogee |
| Brown, Addie | Langston |
| Burks, William | Gatesville |
| Caddy, George | Grayson |
| Carter, Mayme Edna | Chickasha |
| Chandler, James Wesley | Wewoka |
| Chandler, Roena Martha | Wewoka |
| Chandler, William Urastus | Wewoka |
| Davis, Lovetta Georgia | Vinita |
| Davis, Saloma | Holdenville |
| Derritt, Nathaniel Edward | Hennessey |
| Dunlap, Harrison | Wewoka |
| Edmison, Delos | Earlsboro |
| Elliott, Julia | Ft. Gibson |
| Elliott, Martha | Ft. Gibson |
| Elliott, Mary Edna | Ft. Gibson |
| Ennis, Estella Beatrice | Muskogee |
| Glass, Leroy | Tahlequah |
| Goodrum, John | Waterloo |
| Gunter, Ella Josephine | Lookeba |
| Harbison, Harry | Earlsboro |
| Harrison, Bertha | Oklahoma |
| Holmes, Furlon | Langston |

| | |
|---|---|
| Holt, Anna Luverna | Guthrie |
| Hudson, Esther Mabis | Gatesville |
| Hughes, Cornelia | Dallas, Texas. |
| Hulsey, Harriet Jeanetta | Tulsa |
| Hutchinson, Essie Henrietta | Guthrie |
| Hutton, Salina Thelma | Boynton |
| Hyder, Eugene | Meridian |
| Isler, Vera | Wichita, Kansas |
| Jackson, Arnetta | Rentiesville |
| Jefferson, Emma | Boynton |
| Jones, Lucinda | Rentiesville |
| Jones, Minneola Edna | Payton |
| Jones, Napoleon | Midway, Texas |
| Jordan, James | Kingfisher |
| Lawson, Madison | Sulphur |
| Lewis, Amanda Viola | Goodnight |
| Lowry, Ruth Clement | Tahlequah |
| McQueen, Thomas | Muskogee |
| Manuel, Pearl Beatrice | Haskell |
| Marsh, Harriet Teasing | Coweta |
| Mathews, Gertrude | Ardmore |
| Mays, Stella | Coweta |
| Meeks, Beulah | Langston |
| Moon, Irene | Fallis |
| Moon, Sampson | Fallis |
| Murphy, Leona | Okeene |
| Nichols, Pearl Vivian | Luther |
| Pyrtle, Willa | Langston |
| Raymond, Albert | Washington, D. C |
| Reed, Andrew | Meridian |
| Reed, Charity Odessa | Langston |
| Rouce, Carlee Lena | Watonga |
| Russell, Pearl Evalina | Taft |
| Shanns, Edna | Guthrie |
| Smith, Curtis William | Elliott |
| Smith, James | Shawnee |
| Stephenson, Grace | Wanamaker |
| Stephenson, Viola | Wanamaker |
| Strickland, Oda Vee | Langston |
| Strickland, Odessa | Langston |
| Strickland, Ona | Langston |
| Templeton, Walker | Atkins, Ark. |
| Vann, Lottie | Coffeyville, Kans. |
| Wade, Elizabeth | Denver, Colo. |
| Wade, Timothy | Perry |
| Wagner, William | Muskogee |
| White, Sarah | Iconium |

| | |
|---|---|
| Williams, Azzie | Langston |
| Williams, Carnee | Red Bird |
| Williams, Mathew | Sumpterville |
| Young, George Washington | Langston |

**Seventh Grade.**

| | |
|---|---|
| Abram, Riva | Milo |
| Alexander, John | Helena, Ark. |
| Benford, Frederick | Chandler |
| Brown, Dora | Langston |
| Byrd, Emma | Tahlequah |
| Chester, Elizabeth | Fallis |
| Cohee, Lafayette | Wewoka |
| Conley, Estelle | Boley |
| Daniels, Lillian Lurene | Weleetka |
| Dave, Lloyd Anderson | Goodnight |
| Davis, Roberta | Holdenville |
| Denman, Bertha | Red Bird |
| Diggs, Mary | Orlando |
| Douglas, Benjamin | Oklahoma |
| Douglas, Thomas | Berwyn |
| Frazier, Ida | Taft |
| Freeman, William Arthur | Eufaula |
| Foster, Alice Eugenia | Oklahoma |
| Giddings, Susan | Langston |
| Giddings, Wyman | Langston |
| Glass, Anna | Guthrie |
| Glass, Martha | Vian |
| Grayson, Samuel Eugene | Tulsa |
| Gregers, Mary | Wellston |
| Greenhoward, Rosa | Luther |
| Haynes, Georgia Ella | Boley |
| Hickman, Henry | Whalock, Tex. |
| Hudson, Nathaniel Samuel | Perry |
| Jackson, Ruth Ethel | Fallis |
| James, Cleveland | Russellville, Tex. |
| Jordan, Anna Henrietta | Okmulgee |
| Lair, Joseph | Guthrie |
| Lawson, James | Sulphur |
| Lowry, Mary | Tahlequah |
| McDaniels, John | Langston |
| McGowan, Clyde John | Red Bird |
| McKnight, Juanita | Ferguson |
| Mitchell, Hallie Bird | Morris |
| Moore, Frank | Ft. Gibson |
| Page, Nerous | Depew |

| | |
|---|---|
| Peoples, Lairy Nathaniel | Jennings |
| Perkins, Osie | Goodnight |
| Shaffer, Mercia Hattie Ann | Enid |
| Smith, Anthony | Stillwater |
| Smith, Martha Clayton | Vian |
| Spight, Edgar | Gatesville |
| Stokes, Elizabeth | Coffeyville, Kansas |
| Suddith, Leonard | Coweta |
| Sutton, Artelya Beatrice | Boley |
| Thomas, Alice Anna | Dover |
| White, Bertha | Chickasha |
| West, Jessica Belle | Tulsa |
| Wright, Aaron | Langston |
| Young, Frances | Sapulpa |

**Sixth Grade.**

| | |
|---|---|
| Abram, Garrett | Milo |
| Allen, Oscar | Tulsa |
| Ballard, Hallie Queen | Cleburne, Texas |
| Banks, Harriet | Haskell |
| Barber, Ethel | Langston |
| Barkesdale, Ethel | Tulsa |
| Bibbs, Samuel Stephen | Valliant |
| Black, Mary | Ada |
| Blackwell, Elizabeth | Wellington Kansas |
| Blair, Robert | Langston |
| Bowles, Allen G. | Guthrie |
| Brewer, Jessica | Gidson Station |
| Brown, Dora | Gatesville |
| Bruner, Joseph | Gatesville |
| Buchanan, Soloman | Boswell |
| Coleman, Elizabeth | Waxahachi, Texas |
| Conner, Oliver | Grayson |
| Cravens, Mayme Leora | Gatesville |
| Crisp, Jessica | Grayson |
| Davis, Ruth Mae | Ardmore |
| Debose, Nathan | Tullahassee |
| Giddings Embry | Langston |
| Gladney, Leroy | Meridian |
| Haynes, Wincie | Boley |
| Henderson, Douglas | Tulsa |
| Henderson, Lennie Eva | Choteau |
| Hill, Flossie | Vinita |
| Hill, Sarah | Vinita |
| Hoffman, Alonzo | Huffman |
| Holder, Frederick | Langston |

| | |
|---|---|
| Holland, Abbie | Earlsboro |
| Holland, Laura | Earlsboro |
| Holt, Sarah | Rentiesville |
| Johnson, Jonnie | Bristow |
| Johnson Robert Lee | Wewoka |
| Jones, Alma | Sharp |
| Jones, Lucile | Eufaula |
| Jones, Mary | Sharp |
| Jones, Ulysses | Langston |
| Lane, Herbert | Enid |
| Lay, Odell Joseph | Langston |
| Lee, Vanilla | Sapulpa |
| Meeks, Parthenia | Langston |
| Morris, Anna Belle | Stillwater |
| Morrison, Myra | Taft |
| Moultrie, Julia | Boley |
| Owens, Harriet | McAlester |
| Payton Jesse | Grayson |
| Peterson, Rebecca | Stillwater |
| Phillips, Olney | Guthrie |
| Quinn, Robert Fulton | Boley |
| Rentie, Mayme | Boynton |
| Ross, Maud Ella | Ft. Gibson |
| Skelton, Lillian | Wellston |
| Stewart, Abraham | Wewoka |
| Wagner, Elmer | Muskogee |
| Waters, William Alonzo | Huttonville |
| Whitmire, William | Benge |
| Wiley, Alice Jeannette | Cleburne, Texas |
| Williams, Frank | Jones |
| Williams, Harriet | Langston |
| Wilson, Ferdinand Franklin | Bristow |
| Wright, Joseph | Langston |
| Younger, Josephus | Blanchard |

## Fifth Grade.

| | |
|---|---|
| Adams, Benjamin | Beggs |
| Adams, Exodus | Boley |
| Allen, Mahalia | Langston |
| Anderson, Josia | Cobb |
| Austin, June | Newby |
| Bagsby, Claud | Wewoka |
| Barker, William Henry | Vinita |
| Barner, Rebecca | Weleetka |
| Barnett, Abigail | Boley |
| Bingaman, Agnes | Boley |

| | |
|---|---|
| Blackwell, Salina | Sewell |
| Bohannan, Bernard | Muskogee |
| Boston, Frederick | Topeka, Kansas |
| Bowen, James | Earlsboro |
| Bullock, Effie | Rosedale |
| Carter, Edgar | Sherman, Texas |
| Carter, William | Perry |
| Chambers, Minneola | Bartlesville |
| Chapman, John | Langston |
| Charles, Elnora | Lee |
| Cobb, William | Springer |
| Cohee, Calvin | Springer |
| Cohee, Washington | Washington |
| Collier, Benjamin | Lawton |
| Collier, Joseph | Burse |
| Craig, Joseph | Enid |
| Crapo, Eva Della | Maybell |
| Daniels, William | Lenapah |
| Davidson, Alma Irzan | Guthrie |
| Davidson, Herman | Purcell |
| Drew, George | Haskell |
| Eads, Elizabeth | McAlester |
| Fink, Susan | Muskogee |
| Fulsom, Allie | Chaffee |
| Gaines, Marcella Geraldine | Langston |
| Gray, Lillian | Muskogee |
| Gray, Ruth | Muskogee |
| Grayson, George | Boynton |
| Grayson, Jacob | Haskell |
| Grayson, Louisa | Lee |
| Hale, David | Vian |
| Hale, Richard | Vian |
| Harrison, Anna | Haskell |
| Hayes, Ethel | Gatesville |
| Henderson, Sanders | Lee |
| Hyder, Edna | Meridian |
| James, Vorage | Berwyn |
| Jefferson, Edmond | Boynton |
| Johnson, Clifford | Watonga |
| Johnson, Herman | Lenapah |
| Jones, Lucy | Rentiesville |
| Jones, Robert Upesaw | Oklahoma |
| Kennedy, Wilson Thomas | Bison |
| Kyle, Hazel | Lawton |
| Lackey, Iverelia | Sulphur |
| Leathers, Vernell | Gainesville, Texas |
| Lee, David | Boynton |

| | |
|---|---|
| Lee, Frederick | Taft |
| Lee, Pleasant | Taft |
| Lewis, Ellis | Taft |
| Lewis, Mayme Beatrice | McAlester |
| Lynch, Florence Alberta | Vinita |
| McCauley, Ella | Guthrie |
| McDonald, Gertrude | Sapulpa |
| McElroy, Lillian Belle | Guthrie |
| Manuel, Robert | Haskell |
| Marshall, Alverna | Hitchcock |
| Martin, Sarah | Maybell |
| Mays, Ella | Coweta |
| Morrison, Johnson | Taft |
| Morrison, Leona Etheleen | Taft |
| Neal, Jessica | Tulsa |
| Nelson, Lola | Eaton |
| Nolan, Lanie | Glencoe |
| Nugent, William | Oklahoma |
| Owens, Erma | Beaumont, Texas |
| Palmore, Mary Madaline | Chandler |
| Polk, Ethel | Watonga |
| Pollard, Eva | Langston |
| Porter, Louella | Okeene |
| Presley, Willa | McAlester |
| Quinn, James | Blanchard |
| Randall, Florence | Bristow |
| Redmond, William | Beggs |
| Richard, John | Hitchcock |
| Robinson, Edmond | Muskogee |
| Rogan, Bertha | Sapulpa |
| Ross, Tollie | Dague, Ark. |
| Sandridge, Eleen | Wewoka |
| Sexton, Melissa | Langston |
| Shann, Otwa | Guthrie |
| Silvers, Lucy | Glencoe |
| Smith, Charles | Guthrie |
| Spight, Rachel | Maybell |
| Stewart, Joseph | Newkirk |
| Stewart, Pauline | Chandler |
| Swepston, Lena | Tahlequah |
| Taylor, Crawford | Newby, |
| Tinzly, Irma | Rex |
| Tiger, Anna | Boley |
| Thompson, Rebecca | Bragg |
| Toms, Till | Arkansas City, Kan. |
| Vann, Anna | Maybell |
| Vann, Nannie | Maybell |

| | |
|---|---|
| Wallace, Elna | Big Cabin |
| Washington, Robert | Muskogee |
| West, Alberta Belle | Tulsa |
| White, Della | Muskogee |
| Whitlow, Helen | Boynton |
| Williams, Joseph | Beggs |
| Williams, Mayme | Langston |
| Wilson, Sidney | Big Bend, La. |
| Wright, Willa | Newby |
| Young, Iva | Langston |
| Young, Maud Laura | Langston |

**SPECIAL.**

| | |
|---|---|
| Brown, Susan Anna | Marshall |
| James, Joseph | Muskogee |
| Johnson, Albert | Prague |
| Morrison, Alberta Belle | Corsicana, Texas |
| Pennington, James Allen | Little Rock, Ark. |
| Walker, Houston | Nowata |
| Williams, Martha | Oklahoma |

**DEPARTMENT OF AGRICULTURE.**

**Three Year Course.**

| | |
|---|---|
| Jones, George | Moberly, Mo. |
| King, John | Kingfisher |
| Kirk, Frank | Langston, |
| Miles, Henry Clay | Langston |
| Sewell, Frederick | Muskogee |

**COMMERCIAL DEPARTMENT.**

**Two Year Course.**

| | |
|---|---|
| Ballard, Luvenia | Cleburne, Texas |
| Dawson, John | Langston |
| Porter, Alberta Elizabeth | Brenham, Texas |
| Russell, Lewis | Waco, Texas |
| Slaughter, Lonus | Langston |
| Vanzant, Caroline Elizabeth | Dague, Ark. |
| Vanzant, Rotia Caroline | Dague, Ark. |

**Fourth Year Course.**

| | |
|---|---|
| Brown, Estella | Langston |
| Brown, Margaret | Tulsa |
| Dobbins, Garrett Cooper | Teague, Texas |

| | |
|---|---|
| Frazier, William | Edminton, Can. |
| Giddings, Edward Waters | Langston |
| Gothard, Ralph Orlando | Hutchinson, Kansas |
| Grimmitte, Rosella | Muskogee |
| Hall, Richard Levi | Frederick |
| Hamlet, Etta | Perry |
| Hudson, Benjamin | Grayson |
| Hutchins, Alleze | Tulsa |
| Lacefield, Willa Elizabeth | Muskogee |
| Mariot, Henry | Boley |
| Meeks, Ellsworth James | Langston |
| Wilkes, Rufus | Langston |

## DEPARTMENT OF INSTRUMENTAL MUSIC.

| | |
|---|---|
| Dingus, Maud Electa | Langston |
| Jordan, Parthia | Langston |
| Slaughter, Elizabeth | Langston |
| Versa, Cora | Iconium |
| White, Harriet | Goodnight |

Total, 503.

## ALUMNI

### NORMAL DEPARTMENT.

#### Class of 1901.

| | |
|---|---|
| J. I. Hazelwood, Postmaster | Langston |
| Ellen Cockrel, nee Strong, | Chandler, |

#### Class of 1903.

| | |
|---|---|
| Necola Caesar, Principal of School, | Shawnee, |
| Iva Elliott | Kansas City, Mo. |

#### Class of 1904.

| | |
|---|---|
| Mae Porter, nee Caesar, | Kansas City, Kan. |
| Bertha Guy, nee Harden, | Wichita, Kansas. |
| Electa Maud Dingus, nee Longdon, | Langston |
| Sarah Moore, nee Whitley, | El Reno |

#### Class of 1906.

| | |
|---|---|
| Corene Cabell, Teacher | Henderson, Ky. |
| Maud Caesar, nee Jones, | Shawnee |
| Alexander Morris, Secretary to President C. A. & N. University | Langston |

#### Class of 1908.

| | |
|---|---|
| Mary Juanita McCain, Teacher C. A. & N. University | Langston |

#### Class of 1909.

| | |
|---|---|
| Osie Reed | Langston |

### COLLEGIATE DEPARTMENT.

#### Class of 1908.

| | |
|---|---|
| Mary Page, Student, New England Conservatory of Music | Boston, Mass. |
| Nolan Pyrtle, Student Syracuse University, | Syracuse, N. Y. |
| Thomas Slaughter, Manager Boys' Dormitory | Langston |

## DEPARTMENT OF MECHANIC ARTS.

### Class of 1908.

| | |
|---|---|
| Nelson Jones | Langston |

## DEPARTMENT OF DOMESTIC ECONOMY

### Dressmaking.

### Class of 1904.

| | |
|---|---|
| Carrie Burnett | Boynton |
| Minnie Hollis | Kingfisher |
| Electa Maud Dingus, nee Longdon | Langston |
| Zelia Longdon | Langston |

### Plain Sewing.

| | |
|---|---|
| Charlotte Russell, nee Butler | Taft |
| Almeda Buttler | Oklahoma City, |
| Mae Porter, nee Caesar | Kansas City, Mo. |
| Corene Cabell | Henderson, Ky. |
| Minnie Brooks, nee Cates | Dallas, Texas |
| Trelawney Biggers, nee Dunbar | Muskogee |
| Emma Burnett, nee Garner | Oklahoma City |
| Maud Caesar, nee Jones | Shawnee |
| Mary Page | Langston |
| Catherine Pierson, | Guthrie |
| Osie Reed, | Langston |
| Catherine Trayler, nee Settes, | Oklahoma City, |
| Carrie Tilmon | Iconium |
| Dora Tilmon | Iconium |
| Nora Tilmon | Iconium |
| Bertha Fulbright, nee Turner | El Reno |

### Millinery.

### Class of 1904.

| | |
|---|---|
| Carrie Burnett | Boynton |
| Corene Cabell | Henderson, Ky. |

### Millinery.

### Class of 1904.

| | |
|---|---|
| Carrie Burnett | Boynton |

**Dressmaking**

**Class of 1906.**

| | |
|---|---|
| Corene Cabell | Henderson, Ky. |
| Emma Burnett, nee Garner | Oklahoma City |
| Minnie Hollis | Kingfisher |
| Maud Caesar, nee Jones | Shawnee |
| Carrie Tilmon | Iconium |
| Dora Tilmon | Iconium |
| Nora Tilmon | Iconium |

**Plain Sewing.**

**Class of 1908.**

| | |
|---|---|
| Daisy Inez Brown | Bristow |

**Dressmaking**

**Class of 1908.**

| | |
|---|---|
| Mary Juanita McCain, Teacher, C. A. & N. University | Langston |

# INDEX