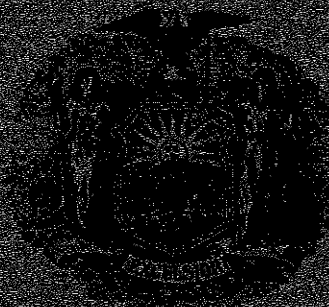


THE NEW YORK STATE SCHOOL  
OF CLAY WORKING AND CERAMICS



ALFRED, NEW YORK

1901-1905

# Board of Managers

(Approved annually by Officers of Massachusetts)

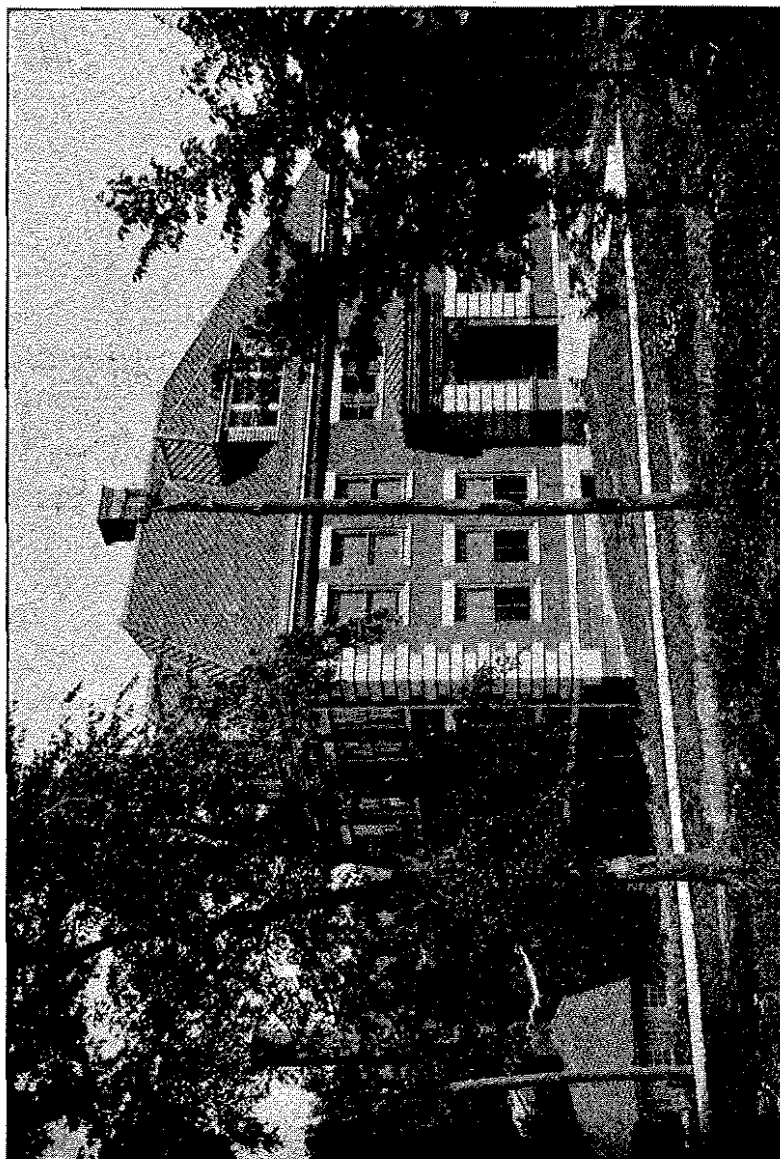
ROBERT C. DAVIS *President*

JOHN J. McFARLANE

WILL R. CLARK

BREWSTER B. HAMILTON

WILLIAM H. CRANFORD



The New York State School

# Calendar

## FIRST SEMESTER, 1904-1905

		1904
Registration, Entrance Examinations	Tuesday	Sept. 20
Instruction begins	Wednesday morning	Sept. 21
<b>Election Day</b>	Tuesday	Nov. 8
Thanksgiving Recess begins	Wednesday evening	Nov. 23
THANKSGIVING RECESS		
Instruction resumed	Monday morning	Nov. 28
Holiday Recess begins	Wednesday evening	Dec. 21
HOLIDAY RECESS		
Instruction resumed	Wednesday morning	1905 Jan. 4
Semester Examinations begin	Monday	Jan. 23
Examinations end, Semester ends	Friday evening	Jan. 27
MID-YEAR RECESS		

## SECOND SEMESTER

Instruction begins	Monday morning	Jan. 30
<b>Washington's Birthday</b>	Wednesday	Feb. 22
Spring Recess begins	Thursday evening	Mar. 30
SPRING RECESS		
Instruction resumed	Tuesday morning	April 11
<b>Memorial Day</b>	Tuesday	May 30
Examinations begin	Monday	June 12
Examinations end	Friday	June 16
Degrees conferred at University Commencement	Thursday	June 22
SUMMER VACATION		

## FIRST SEMESTER, 1905-1906

Registration, Entrance Examinations	Tuesday	Sept. 19
Instruction begins	Wednesday morning	Sept. 20
<b>Election Day</b>	Tuesday	Nov. 7
Thanksgiving Recess begins	Wednesday evening	Nov. 29
THANKSGIVING RECESS		
Instruction resumed	Monday morning	Dec. 4
Holiday Recess begins	Wednesday evening	Dec. 20
HOLIDAY RECESS		
Instruction resumed	Wednesday morning	1906 Jan. 3
Semester Examinations begin	Monday	Jan. 22
Examinations end, Semester ends	Friday evening	Jan. 26
MID-YEAR RECESS		
Instruction begins	Monday morning	Jan. 29

# Faculty

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CHARLES F. BINNS, M. S., Director,  
Professor of Ceramic Technology.

ALPHEUS B. KENYON, M. S.,  
Professor of Mathematics and Graphics.

CLAUDE I. LEWIS, B. S.,  
Professor of Natural Science.

OTHO P. FAIRFIELD, B. A.,  
Professor of English.

EDWARD S. BABCOCK, M. S.,  
Professor of Chemistry and Physics.

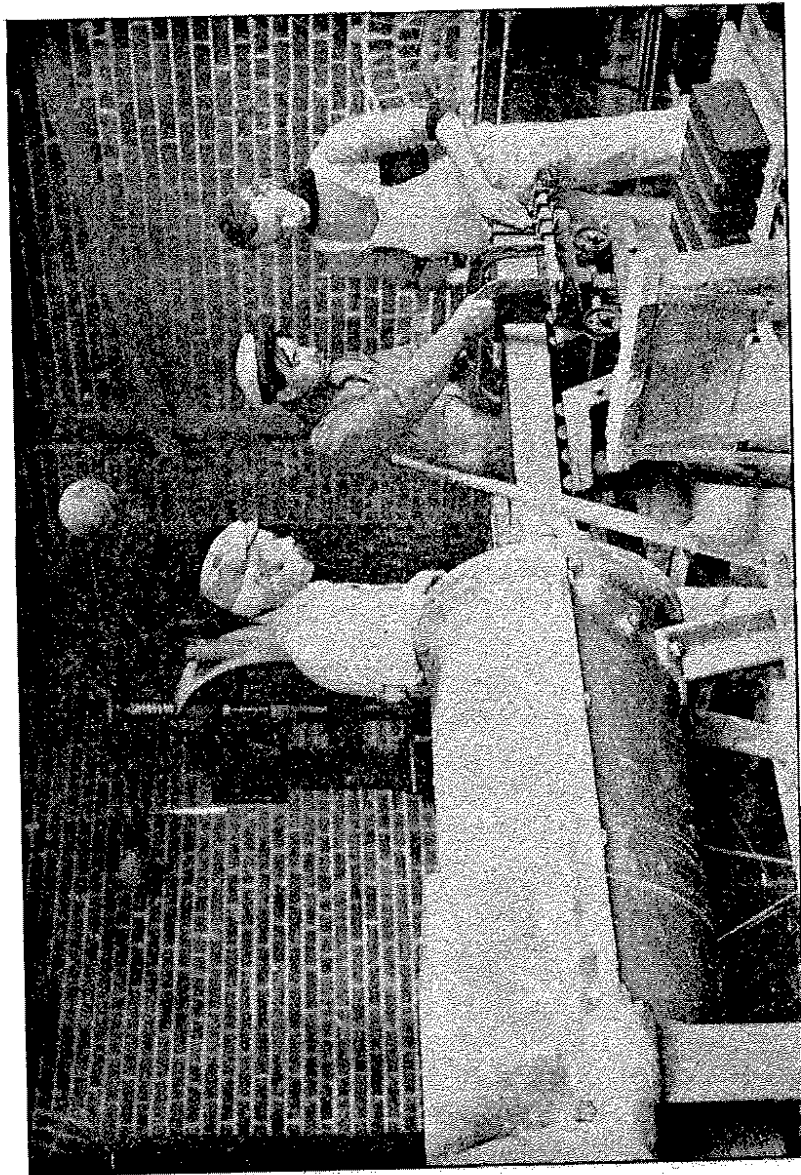
ADELAIDE M. BLANCHARD,  
Instructor in Art.

PAUL E. TITSWORTH, Ph. B.,  
Instructor in Modern Languages.

LINTON B. CRANDALL, B. S.,

ALLEN W. CORWIN,  
Assistants in Industrial Mechanics.

A. L. WHITFORD,  
Janitor and Machinist.



An Experiment in Brick

## New York State School of Clay-Working and Ceramics

In the field of applied science and commercial engineering the subject of Clay-Working is becoming daily more important. To the architect and builder clay offers the most satisfactory fire-proof material, to the housewife pottery is indispensable and to the artist clay and clay-wares afford at once a facile means of expression and a prominent feature of home decoration.

The problems which confront the clay-worker are unique. He must learn to win his material economically from the earth, to shape his wares with due regard to both utility and art, to glaze or otherwise finish them in a satisfactory manner and to burn the whole successfully upon a large scale. His education must therefore be comprehensive and complete. He must, in a word, be a specialist and to this end the New York State School was established.

Chapter 383, Laws of New York State, 1900, provided for the construction and maintenance of the school and in order to secure the necessary facilities for collateral branches of study Alfred University was chosen as the location.

For this work the University offers great advantages. Laboratories of chemistry and physics, libraries, museums of geology and natural history, workshops for manual training and all the departments of liberal culture are available, so that the many and varied requirements of a liberal education are fully met.

The State of New York contains vast deposits of clays and shales at present lying dormant, it also contains large

numbers of young men and women who are seeking profitable employment. The work of the school is to bring these together. Neither the science nor the art is neglected. Attention is given to the improvements of methods of manufacture and the reduction of cost so that the resources of the state may be fully developed and that within its borders may be manufactured the clay-wares, both coarse and fine, necessary for its own consumption.

## Building and Equipment

The building of the New York State School of Clay-Working and Ceramics has been especially designed and is located on land purchased for the purpose and deeded to the people of the State of New York. It is built of red brick and terra-cotta with gray trimmings and roofed with brown tile. It has a floor space of about thirteen thousand square feet, and a frontage of seventy-five feet.

In the lower story are located the heavy machinery for the manufacture of brick, tile, hollow blocks and roofing tile, the slip-making plant, cylinders for glaze preparation, and a workshop fitted with modern appliances for pottery and porcelain manufacture. There are also rooms for mold making and drying, and a damp cellar.

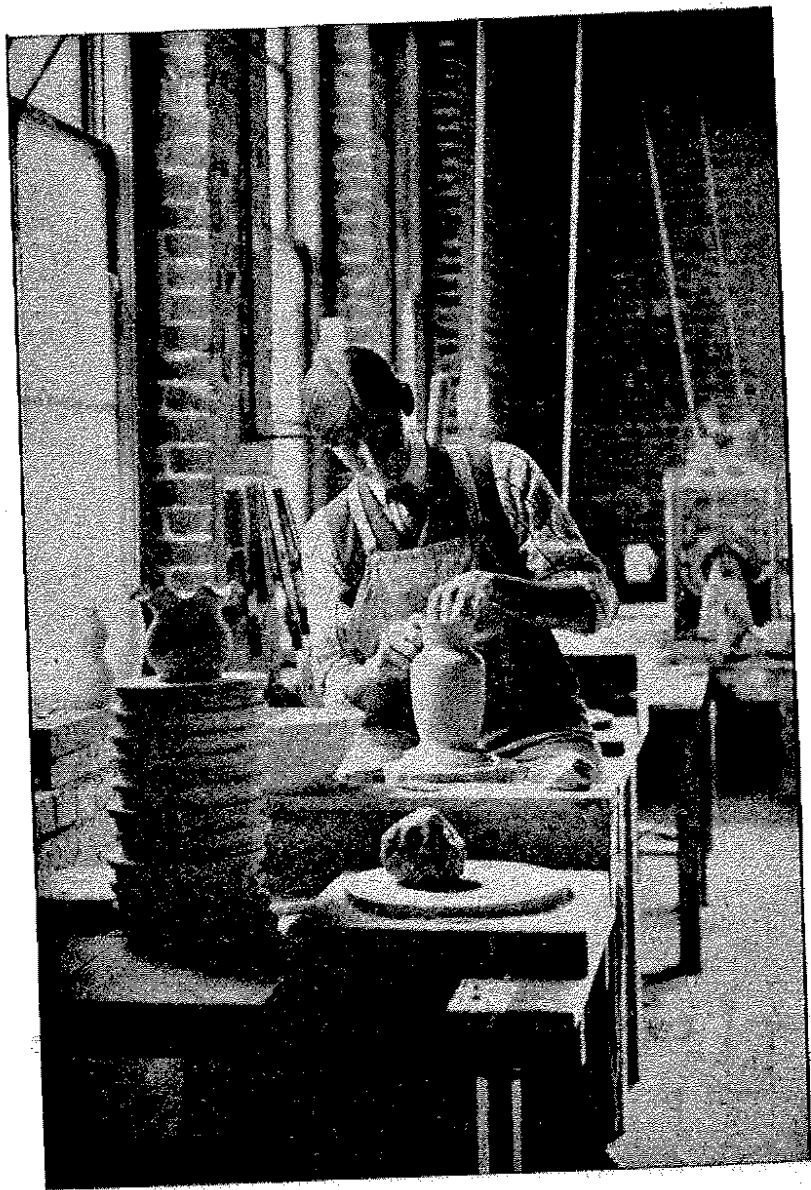
The motive power is supplied by a 36 h. p. Otto gas engine, and a 2 h. p. Rumsey gas engine; natural gas being available.

On the principal floor are located the executive offices, rooms for the Director, laboratories, and a class room. Here the experimental work is done.

The Technical laboratories are provided with small blungers and mills for working clay samples, small gas furnaces for fritting and fusing, and apparatus for the testing of clay.

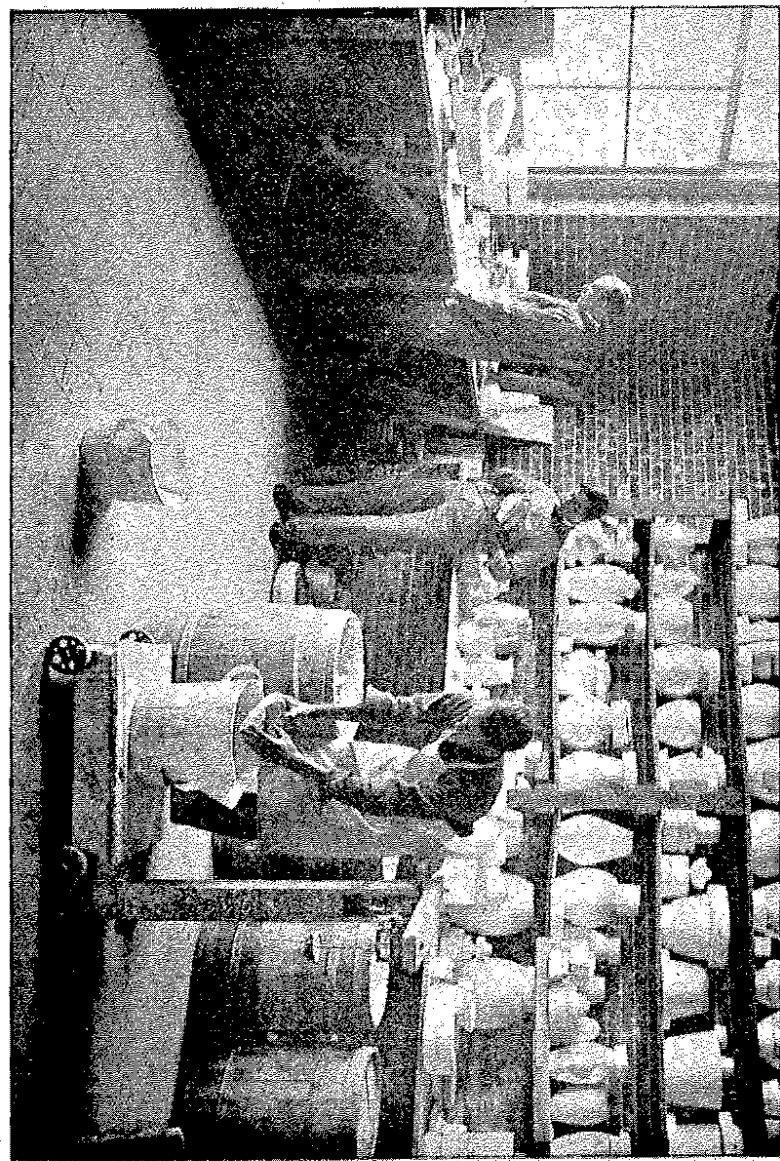
The art department of the school is placed on the





The Potter's Wheel

The Told Shop



second floor. Studios are arranged, provided with the facilities necessary for the practice of mechanical drawing, free-hand drawing and applied design. Adjoining these is the modeling room where, in addition to ornamental work in clay, the production of pure form is studied. Space is provided for a ceramic museum in which examples of clay work of every type may be found.

Adjacent to the main building is the Kiln House, within which are two kilns; one for firing common wares at a low temperature, the other for firing fine wares at a high temperature.

In addition to this equipment it is worthy of note that within a short distance of the school there are two plants in which are manufactured bricks by both the wet and dry processes, several styles of roofing tile, and quarries for floors and roofs. Here may be seen the actual working of manufacturing plants, and the use of at least three kinds of kilns, including a continuous kiln.

## Tuition

Students who are residents of New York State are exempt from payment of tuition by the provisions of the act establishing the school.

To students from other states, an annual tuition fee of \$50 will be charged.

Small incidental fees to cover cost of materials and breakage are required.



## Courses Offered

The courses of study which lead to the degree of B. S. extend over a period of four years and embrace, together with the science, technology and art special to clay-working, such subjects as are the equivalent of the usual college course. Certain subjects are required, but the technical work is elective as to the particular branch of ceramics to be followed.

The course in ceramic art is intended to fit the student for the designing and producing of artistic pottery. The course covers a wide field of art and letters in the belief that a successful artist must possess a liberal education.

For the accommodation of those desiring to qualify as teachers it is permitted to elect Psychology, History of Education and Pedagogy in place of other college subjects. An opportunity for practice teaching is afforded in the public schools of Alfred.

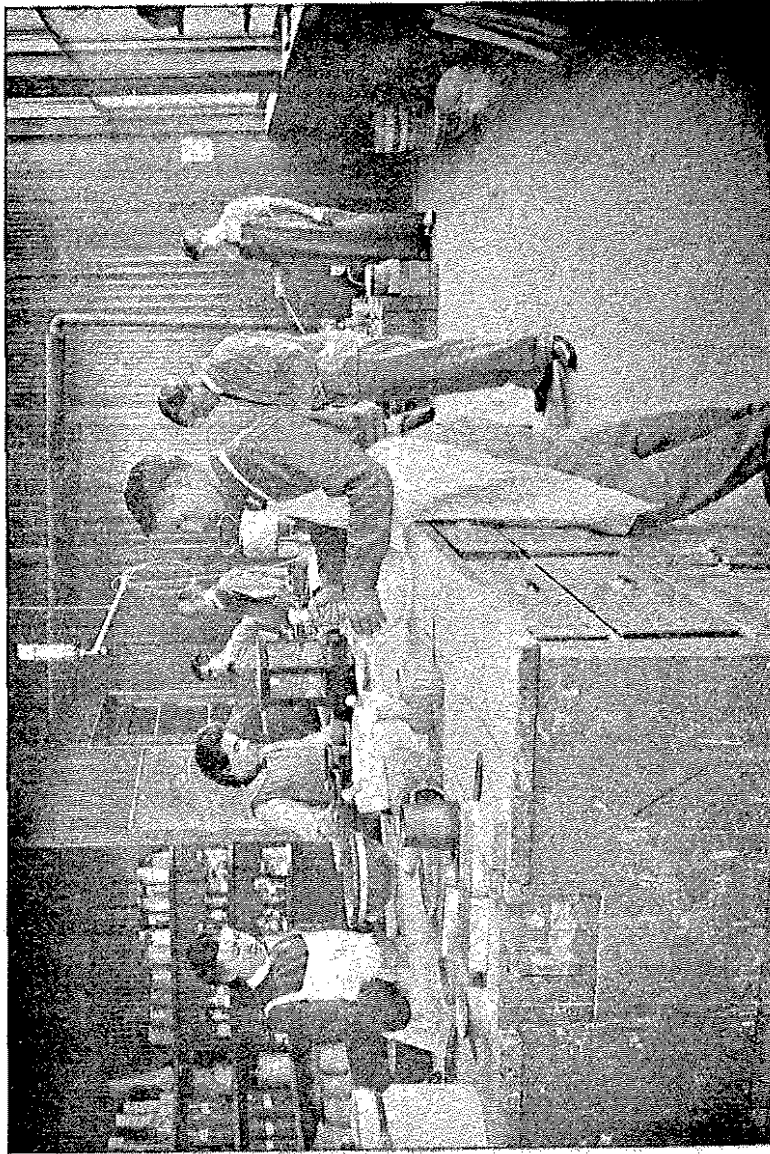
Students having a practical knowledge of clay-working will be received for short terms, and certificates will be given according to the work done.

## Benefits of the School

The demand for trained clay-workers has grown to considerable proportions during the last few years. Capital is becoming more and more interested in the development of clay lands and shale banks; nor is there any likelihood that this interest will decrease.

On the other hand the number of men who have studied in the schools is very small compared with the openings to be filled. Hitherto, no student who has passed through the school successfully has remained unemployed, and the Director is continually in receipt of applications for persons qualified to fill responsible positions. Every effort is made by the faculty to place the

Any student not registering on the days set therefor will be charged a fee of two dollars for late registration.



The Glaze Laboratory

students in communication with manufacturers desiring to offer them employment.

The student successfully pursuing the technical course will be able, presuming that his personal capacity be good, to take up the practical work of manufacturing clay wares. He will have had experience with every description of clay, and with the minerals and oxides used in preparing bodies and glazes. He will have acquired a knowledge of machinery and kilns which he will find of the greatest value. In short, he will be a trained man as regards the problems of clay-working.

Students who conscientiously pursue the course in ceramic art will be able to design and make artistic pottery, preparing their own clays and compounding their own glazes, if necessary. Those who elect the normal course will be thoroughly equipped to teach not only clay-working, but drawing and design in schools.

## Entrance Requirements

### [Shorter Courses]

Candidates for admission to a short course must be at least sixteen years of age and must present certificates of good moral character. They must possess the ability to read and write good English and be proficient in arithmetic. Some knowledge of algebra, plane geometry and elementary physics is desirable.

Candidates for special courses may be admitted at the discretion of the Faculty upon giving evidence of earnest purpose and of ability to assimilate the instruction.

### [Four Years' Ceramic Art Course]

For entrance to the course in ceramic art and normal study, a four years' academic diploma is required. The subjects taken may cover the usual academic range but should include Plane Geometry, English Composition, Rhetoric and English Reading.

### [Four Years' Technical Course]

Candidates for admission to the four years' technical course must be at least fifteen years of age and must present certificates of good moral character.

The New York State Regents' Academic Diploma is adopted as a general basis for estimating a preparatory course. It is assumed to embrace a training equivalent to a four years' course in the average Preparatory or High School.

The unit of measure adopted in preparatory work is the Regents' "count;" twelve of these represent a year's study in three subjects, and forty-eight are required for the Academic Diploma. One subject pursued a year is equivalent to four counts. The required counts are as follows:



Alfred Pottery, Built and Thrown

English (not including Advanced English)	8 counts
Mathematics	12 "
Foreign Languages	12 "
Science	8 "
Drawing	2 "
Elective	6 "
Total	48

Admission is gained either on certificate or on examination, as follows:

### Admission on Certificate

**REGENTS' CREDENTIALS.** The credentials of the University of the State of New York are accepted instead of an examination in the subjects required for admission, so far as they cover these requirements. [For subjects see *Admission on Examination*.]

**PRINCIPAL'S CERTIFICATE.** Certificates are also received from Principals of Preparatory or High Schools, outside of New York State, provided such schools are known to the Faculty for thoroughness of instruction. Such certificate must specify, in connection with each subject, the extent to which it has been pursued, by giving the text-book used, the method of instruction, the amount of time given to it, the date of the final examination, the degree of the applicant's proficiency, and must clearly show that the student has met the requirements in every detail. The State School furnishes blank forms for such certificates upon application of Principals of approved schools.

Principals of Preparatory Schools who desire to have their students admitted on certificate are invited to correspond with the Director.

### Admission on Examination

Candidates who fail to present satisfactory certificates must pass a written examination in the required subjects. Examinations in all subjects required for admission are held at Alfred at the beginning of each year. Candidates

must report at the Director's office and obtain permits for examination. The results of the examination may be obtained from the Director.

The subjects are as follows:

ENGLISH COMPOSITION AND RHETORIC. 4 counts. The candidate must be familiar with Elementary Rhetoric, both as a science and as an art. The study can be best pursued in connection with the study of Literature, from which may be obtained material for analysis and subjects for essays.

At the examination the candidate will be expected to correct and rewrite specimens of bad English, and to write an original essay of two hundred and fifty or three hundred words, on one of several subjects announced at the time of the examination. The subjects for 1904-05 will be taken from the following books: Hawthorne's *Twice Told Tales*; Addison's *Sir Roger de Coverley Papers*.

ENGLISH READING. 4 counts.

I. The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number set on the examination paper. The topics will be drawn from the following works:

1905: Addison's *The de Coverly Papers*; Carlyle's *Essay on Burns*; Coleridge's *The Ancient Mariner*; Eliot's *Silas Marner*; Goldsmith's *The Vicar of Wakefield*; Lowell's *The Vision of Sir Launfal*; Scott's *Ivanhoe*; Shakespeare's *The Merchant of Venice*; Shakespeare's *Julius Cæsar*; Tennyson's *The Princess*.

The candidate is expected to read intelligently all the books prescribed. He should read them as he reads other books. He is not expected to know them minutely, but to have freshly in mind their most important parts. In every case the examiner will regard knowledge of the book as less important than ability to write English.

II. A certain number of books is prescribed for careful study. This part of the examination will be upon



## Senior Thesis

There is required of each candidate for a degree a thesis, for which credit is given, two hours in the first semester and three in the second semester of the Senior year. The title of the thesis must be chosen in the field of Ceramics not later than November 1, and must be approved by the Director. The thesis shall embody the results of actual independent research, and must be submitted for approval not later than June 1. A type-written copy must be deposited with the Director.

## Degrees

**BACHELOR'S DEGREE.** Alfred University will confer upon students who satisfactorily complete a full course the degree of Bachelor of Science.

## Courses of Study

### Four Years' Technical Course

Arabic numerals indicate the number of exercises per week. Roman numerals indicate the semester in which the courses will be given. All courses extend through the year except where marked I or II.

#### FRESHMAN YEAR.

English	3
German	3
Chemistry	3
Algebra	2
Laboratory	2
Workshop	2

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#### JUNIOR YEAR

Economic Geology	2
Mineralogy	2
Drafting	2
Clay Analysis	2
Laboratory	4
Elective	3

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#### SOPHOMORE YEAR.

English	2
German	2
Chemistry	2
Physics	3
Ceramic Theory	2
Laboratory	2
Workshop	2

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#### SENIOR YEAR

Advanced Analysis	2
Drafting	2
Laboratory	6
Thesis	3
Elective	2

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15

Fire-proof and refractory ware. Hard and Soft Porcelain, Electrical insulating Ware. Senior year, two hours.

5. A course of laboratory demonstration and practice. Methods of manufacture. Elementary kiln work. Sophomore year, two hours.

6. A course of laboratory demonstration and practice. Mixing clay bodies and glazes. Chemical and mineral analysis of clays. Junior year, four hours.

7. Laboratory and workshop practice in continuation of course 6. Production of fine and special wares. Kiln construction and pyrometry. Senior year, six hours.

Students in the short course will be admitted to any of the foregoing lectures and laboratory work at the discretion of the Faculty.

## Department of Clay Testing

Professor Binns

Professor Babcock

The State School of Ceramics is fitted and the experts in charge are qualified for the professional examination and testing of clays for economic purposes. Such clays may be classified under the following heads:

(a) Kaolin, white burning residual clay.

(b) Kaolin, white burning, washed for market, used in the manufacture of pottery, porcelain and paper.

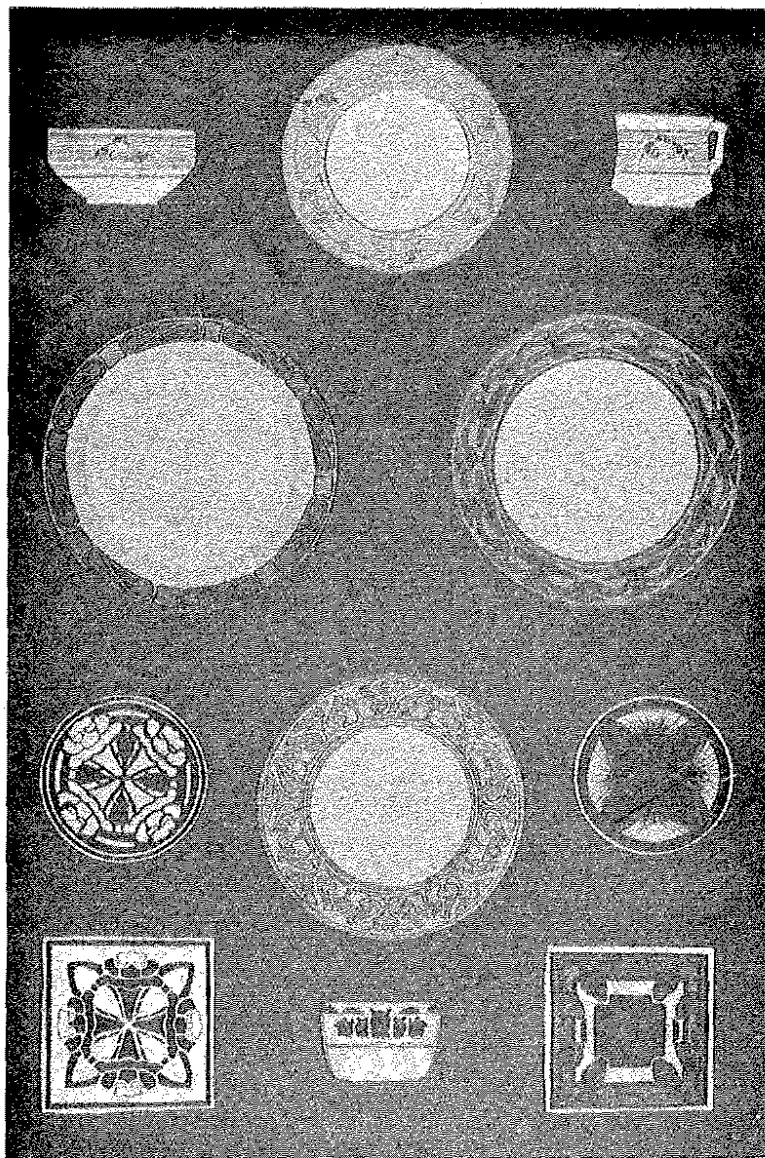
(c) Ball clay, white or cream burning, sedimentary clay of high plasticity, used in pottery manufacture.

(d) Stone ware clay, gray or cream burning, more or less sandy in character, used in stoneware manufacture.

(e) Fire clay, buff or white burning, refractory, used for manufacture of fire brick.

(f) Brick clay, including colored clays and shales, used for the manufacture of brick and tile of various qualities and descriptions.

For each of the above classes special tests are neces-



Pottery Designs

sary, and the charges made are proportionate to the work required.

A report upon each sample will be furnished and must be understood to refer only to the sample submitted unless the experts are instructed to examine the deposit and prepare their own samples, in which case special charges will be made. The report includes chemical and physical tests, and rational analysis where necessary.

Advice as to washing or other preparation of the clay is also given, together with an opinion as to the industry to which the material may be applied.

#### Charges

Clays and shales indigenous to the State of New York will be tested without charge beyond the actual cost involved in the examination. Estimates can be obtained upon application.

For tests of samples from other states charges will be as follows:

For classes a, d, and e, per sample	\$50 00
For classes b, c, and f, per sample	\$25 00
All charges are payable in advance	

The sample submitted should not be less than five pounds in weight and must be forwarded express prepaid.

If the manipulation of bulk samples be desired the State School is prepared to undertake the experimental production of clay wares at reasonable rates.

#### Department of Mechanical Drawing

Professor Keayon

Miss Blanchard

1. A course of instruction in mechanical drawing, general principles, and use of instruments.
2. Descriptive geometry, orthographic projection,

projection of shadows, linear perspective, intersection and development of geometrical surfaces.

3. Making of plans, elevations and details, lettering, machine drawing and the making of blue prints.

## Department of Ceramic Art

Professor Bians

Miss Blanchard

The college subjects in this course are intended to afford the student a grasp of the history of the world with its progress in culture. With this view a close study of the history of art is expected. Lectures on the elements of beauty in form and decoration, and on the possibilities and limitations of clay in ornamental work are given at the same time as the studio work.

1. A course of instruction in freehand drawing from casts, nature, and life, in pencil and charcoal.

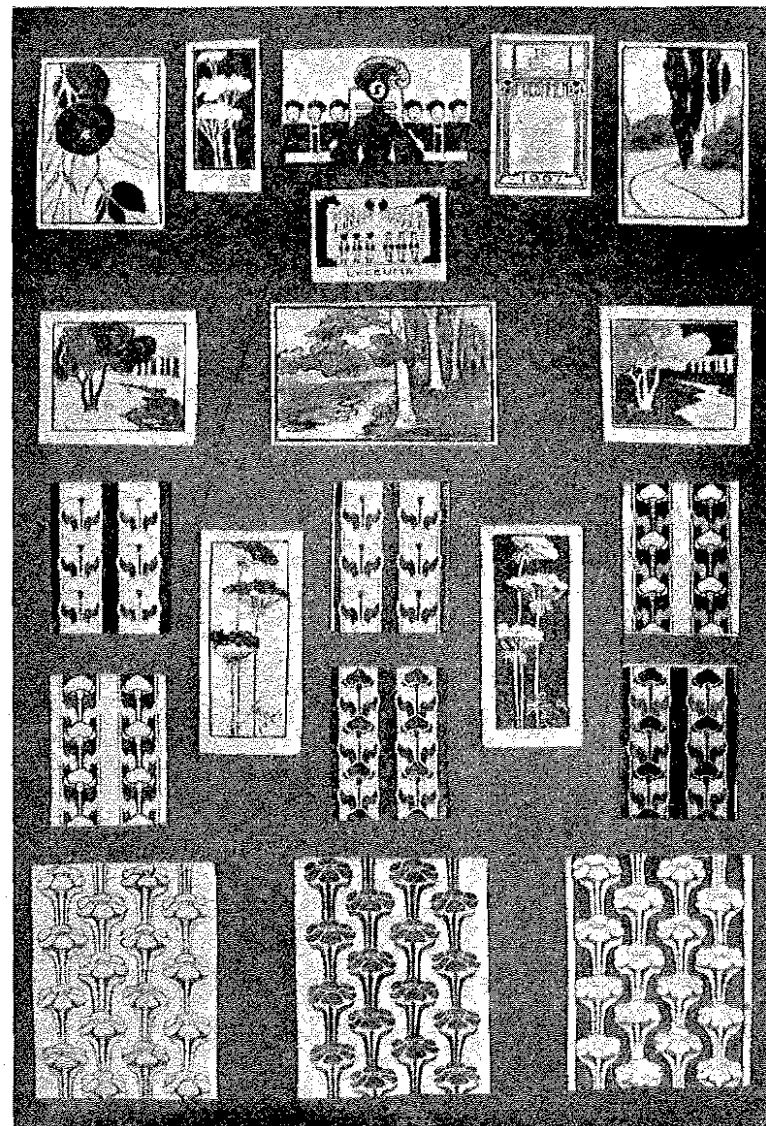
2. A course of instruction in composition and design. The study of beauty and the principles leading to its expression. The designing of pottery.

3. A course of instruction in clay modeling from casts, nature and life. Modeling of architectural terra cotta. Building of pottery forms. Casting in plaster.

4. A course of instruction in painting in oils and water color. (Course 1 is a preliminary requirement.)

Attention will be given to the natural ability of each student and specialization will be encouraged.

Students who have already taken a college course or its equivalent may devote their entire time to the study of ceramic art at the discretion of the faculty.



Class Work in Composition and Design