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THE NEW YORK

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STATE COLLEGE

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OF CERAMICS.

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1933  
1934

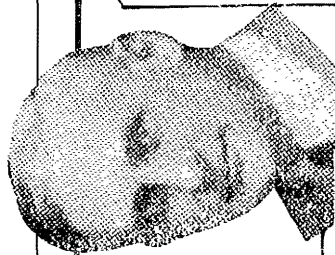
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ALFRED UNIVERSITY

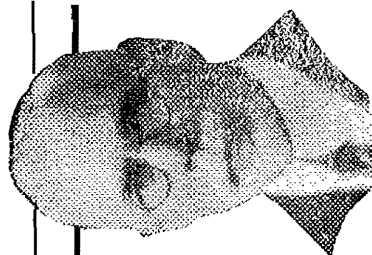
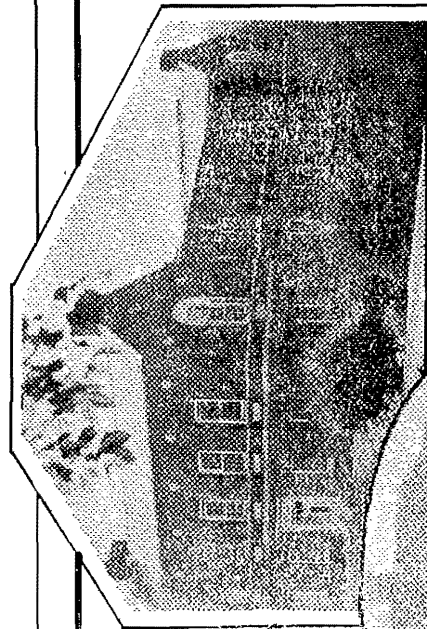
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ALFRED, NEW YORK

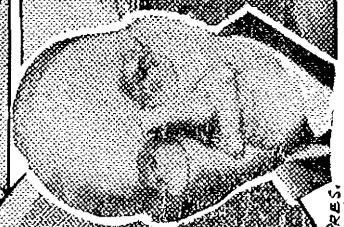
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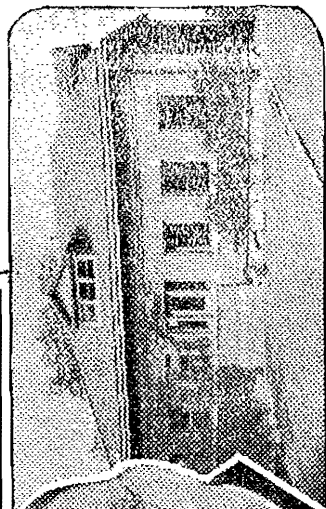
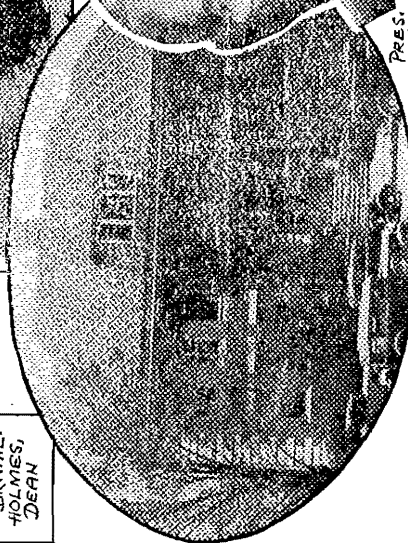
DR. M.E.  
HOLMES,  
DEAN



DR. C.F. BINNS,  
DIRECTOR EMERITUS



PRES.  
BOOTH C. DAVIS



NEW YORK STATE COLLEGE OF CERAMICS

ALFRED UNIVERSITY PUBLICATION

# The New York State College of Ceramics

Catalogue Number



1933 - 1934

Vol. XXXI

November, 1933

No. 11

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# CALENDAR

## First Semester, 1933 - 1934

Entrance examinations	Monday	1933 Sept. 18
"Freshman Week"	Tues. and Wed	Sept. 19-20
Registration for Seniors, Juniors, and Sophomores	Thurs. and Fri.	Sept. 21-22
Instruction begins	Monday	Sept. 25
Mid-semester grades	Thursday	Nov. 23
Thanksgiving Recess begins	Wednesday evening	Nov. 29

### THANKSGIVING RECESS

Instruction resumed	Monday morning	Dec. 1
<b>Founders' Day</b>	<b>Tuesday</b>	<b>Dec. 5</b>
Christmas Recess begins	Thursday evening	Dec. 21

### CHRISTMAS RECESS

Instruction resumed	Tuesday morning	1934 Jan. 9
Mid-year examinations begin	Friday	Jan. 26
Examinations end; semester ends	Friday evening	Feb. 2

## Second Semester

Instruction begins	Wednesday morning	Feb. 7
Mid-semester grades	Thursday	Mar. 22
Easter Recess begins	Thursday evening	Mar. 29

### EASTER RECESS

Instruction resumed	Monday morning	Apr. 9
<b>Memorial Day, half holiday</b>	<b>Wednesday</b>	<b>May 30</b>
Final examinations begin	Friday	June 1
Senior examinations end	Tuesday	June 5
Final examinations end	Friday	June 8

### NINETY-EIGHTH COMMENCEMENT

Alumni Dinner and Annual Meeting	6:30 P. M., Saturday	June 9
Annual Sermon before Christian Associations	11:00 A. M., Sunday	June 10
Baccalaureate Sermon	8:00 P. M., Sunday	June 10
Annual Meeting of Trustees	10:00 A. M., Monday	June 11
Commencement Play	8:15 P. M., Monday	June 11
Commencement Exercises	10:00 A. M., Tuesday	June 12
Annual Meeting of the Corporation	2:00 P. M., Tuesday	June 12
Class Day Exercises	2:30 P. M., Tuesday	June 12
President's Reception	4:00 P. M., Tuesday	June 12

## Summer Session, 1934

<b>Term begins</b>	<b>Monday</b>	<b>July 2</b>
<b>Term ends</b>	<b>Friday</b>	<b>Aug. 10</b>

## BOARD OF MANAGERS

(Appointed annually by the Trustees of Alfred University)

PAUL E. TITSWORTH, President

JOHN J. MERRILL, WILLIAM R. CLARKE  
B. SHEFFIELD BASSETT, D. S. BURDICK  
AMORY HOUGHTON, Corning Glass Works, Corning, N. Y.  
R. H. PASS, Pass & Seymour Co., Syracuse, N. Y.

## First Semester, 1934 - 1935

Entrance examinations	Monday	1934 Sept. 17
Freshman Week	Monday, Tuesday, Wednesday	Sept. 17, 18, 19
Registration for Seniors, Juniors and Sophomores	Thurs. and Friday	Sept. 20, 21
Instruction begins	Monday	Sept. 24
Mid-semester grades	Thursday	Nov. 22
Thanksgiving Recess begins	Wednesday evening	Nov. 28
<b>THANKSGIVING RECESS</b>		
Instruction resumed	Monday morning	Dec. 3
<b>Founders' Day</b>	<b>Wednesday</b>	<b>Dec. 5</b>
Christmas Recess begins	Thursday evening	Dec. 20
<b>CHRISTMAS RECESS</b>		
Instruction resumed	Tuesday morning	1935 Jan. 8
Mid-year examinations begin	Friday	Jan. 25
Examinations end; semester ends	Friday evening	Feb. 1

## Second Semester

Instruction begins	Wednesday morning	Feb. 6
Mid-semester grades	Thursday	Mar. 21
Spring Recess begins	Thursday evening	Apr. 4
<b>SPRING RECESS</b>		
Instruction resumed	Monday morning	Apr. 15
<b>Memorial Day, half holiday</b>	<b>Thursday</b>	<b>May 30</b>
Final examinations begin	Friday	May 31
Senior examinations end	Tuesday	June 4
Final examinations end	Friday	June 7
<b>NINETY-NINTH COMMENCEMENT</b>		
Alumni Dinner and Annual Meeting	6:30 P. M., Saturday	June 8
Annual Sermon before Christian Associations	11:00 A. M., Sunday	June 9
Baccalaureate Sermon	8:00 P. M., Sunday	June 9
Annual Meeting of Trustees	10:00 A. M., Monday	June 10
Commencement Play	8:15 P. M., Monday	June 10
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Class Day Exercises	2:30 P. M., Tuesday	June 11
President's Reception	4:00 P. M., Tuesday	June 11

## Summer Session, 1935

Term begins	Monday	July 8
Term ends	Friday	Aug. 16

## OFFICERS OF INSTRUCTION

PAUL EMERSON TITSWORTH, Ph. D., LL. D., President  
BOOTHIE COLWELL DAVIS, Ph. D., D. D., LL. D.,  
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CHARLES F. BINNS, S. D., Director Emeritus  
SAMUEL RAY SCHOLES, A. B., Ph. D.,  
Professor of Glass Technology  
MURRAY J. RICE, A. M., Ph. D., Professor of Chemistry  
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ROBERT M. CAMPBELL, B. S., Professor of Ceramic Technology  
MARION L. FOSDICK, Professor of Ceramic Art  
CLARA K. NELSON, Professor of Drawing and Design  
CLARENCE W. MERRITT, B. S., Assistant Professor Ceramic  
Engineering  
CHARLES M. HARDER, Assistant Professor of Drawing and  
Ceramic Art  
WARREN P. CORTELYOU, B. S., Assistant Professor of Chemistry  
FRANK E. LOBAUGH, B. S., Assistant Professor of Ceramic  
Engineering  
ERMA B. HEWITT, Instructor in Metal Work

**Other Employees**  
RUTH DARE WHITFORD, B. S., Secretary to the Dean  
CURTIS F. RANDOLPH, Treasurer and Accountant  
RUTH P. GREENE, A. B., B. L. S., Acting Librarian  
EVA B. MIDDLEAUGH, Matron  
STANLEY C. STILLMAN, Janitor and Carpenter  
CECIL R. DRUMMOND, Janitor and Machinist

## THE NEW YORK STATE COLLEGE OF CERAMICS

In founding the New York State School of Clay Working and Ceramics in the year 1900 and placing it under the control of Alfred University, the Legislature of the State of New York recognized not only the importance of education in the pursuit of industry and industrial art but also the fact that such education can best be pursued in cooperation with coordinated studies in the field of liberal arts.

The aims of education are vision and skill. Industry is making greater demands than ever upon the character and qualities of its employees, and the teaching profession calls for ability and personality of a superior order.

To enable its graduates to meet these requirements in their chosen careers, the School was established. The studies relating to the arts and industries of ceramics are numerous and varied. Physics and Chemistry are fundamental and are closely followed by mechanical knowledge and manual dexterity. Engineering looks to production on a large scale, while Ceramic Art plans to beautify the product and enhance its appeal to the consumer.

Recently the New York State Legislature has raised the ranking of the institution to that of a college. Henceforth it will be known as the New York State College of Ceramics. A new building, costing \$175,000, has been provided, adding 24,000 square feet of floor space to the 18,000 square feet of the old plant, fully relieving thereby the cramped quarters of the past. \$40,000 has been spent in equipping this new building with the most up to date apparatus and furniture obtainable. This new building was opened in the fall of 1932, affording the students one of the largest and most completely equipped institutions of its kind in the world.

The expansion program has included not only large additions to the plant and the equipment, but also an expansion of the courses of study to cover all branches of the ceramic industry. A complete department of glass technology has been added. In addition, courses in refractories, lime, gypsum, cement, equipment design and plant layout, and pyrometry have been added. Other features of the expansion program include extension of the courses in physical chemistry, petrography, and research work. The work of the college is thereby fully rounded out, making it possible to cover the entire field of ceramics and to devote to each division the attention it deserves.

The college embraces three departments, (1) department of general ceramic technology and engineering, (2) ceramic art, and (3) glass technology and engineering. Specialized four year college courses of study are given in each of these departments and the student must choose between them not later than the sophomore year.

The courses of study in general ceramic technology and engineering deal primarily with clay and clay products, but refractories, lime, gypsum, cement, enamels, and the various other materials used with them in the industries are included. The study of clay and clay products includes the physical and chemical properties of the raw materials and products, the operations involved in processing the clays and in manufacturing the products and the scientific control of all these operations.

The industrial arts course is established to meet the industrial need for those who can create and execute original work in accordance with the requirements of modern factory processes. The combination of thorough training in ceramic art with courses from the department of general technology and engineering, and the department of glass technology gives the student an introduction to conditions necessary to successful design for industrial products, and leads to specialization in one of the fields of architectural terra-cotta, glass, tile, or whitewares.

Those taking the course in Applied Art are given intensive

instruction in ceramic theory and practice, design and drawing. Allied crafts are included to some extent and students showing ability may elect additional courses in metalwork and jewelry.

The purpose of this course is to meet the industrial need for those who can not only produce hand wrought ware but who can create and execute original work in accordance with the requirements of modern factory processes.

The course in glass technology is designed primarily to give the student a thorough grounding in the scientific basis of glass-making; also to acquaint him with glass-manufacturing practice, so far as that is possible in a school; and thirdly to present glass as an engineering material, a substance of unending interest to the chemist and physicist and a medium for artistic expression and the cultivation and satisfaction of the aesthetic sense.

#### **Residence Halls**

**THE BRICK.** Women students are required to live in this hall, unless permitted for sufficient reason to room in approved homes in the village. Application for such permission must be made to the Dean of Women.

**BARTLETT DORMITORY** is a residence for freshman men. All students living in the dormitory are required to take their meals there. All freshman men must live in Bartlett Dormitory, unless excused by the Dean.

#### **College Year**

The college year consists of two semesters of about seventeen weeks each. There is a vacation at Christmas of about two weeks, a week's recess in the spring, and a summer vacation of about thirteen weeks.

#### **Class Exercises**

The class period, lecture or recitation, is one hour; the laboratory period varies from two to three hours. There are no classes on Saturday or Sunday.

#### **Unit of Credit**

One class period or one laboratory period per week for one semester is taken as the unit of credit and is called a semester hour. For graduation a credit of one hundred and forty-four semester hours is required.

#### **System of Grading**

The work of students in each subject is graded as A, excellent; B, good; C, fair; D, poor; E, conditioned failure; F, failure; I, incomplete; W, withdrawn.

#### **Scholarship Indices**

For determining scholarship and for awarding honors the office uses a system of point values corresponding to the above grades as follows: each hour at A is equivalent to 3 points; at B, to 2; at C, to 1; at D, to 0; at E, to -1; at F, to -2; at I, to -1, at W, to -1. At intervals the Registrar determines a scholarship index for every student and for student groups. These indices are obtained by dividing the total number of points by the total number of hours.

#### **Absences**

The number of times a student may be absent from recitations depends on his (or her) scholastic standing, the nature of the course, the date of the absences, etc. The general regulation is that absences in excess of 7 for a five-hour course, 6 for a four-hour course, 5 for a three-hour course, 3 for a two-hour course, and 2 for a one-hour course, automatically reduce the student's grade. Absences resulting from sickness or other justifiable causes may be excused by the Committee on Absences. (For detailed rules on absences see Alfred College Handbook, p. 10).

#### **Examinations**

Final examinations are held at the close of each semester, in addition to occasional written tests during the semester. Fees will be charged for all examinations taken by those not

regular members of classes, or taken at other times than those appointed for the class examinations.

### Registration

All students will register at the Registrar's office on the days given under "Calendar"; new students entering at the beginning of the second semester will register on the first day thereof. Any student not registering on the days set therefor will be charged a fee of five dollars for late registration.

Each student is expected to register for at least sixteen hours, but may not register for more than required with the following exceptions; (1) physical training and assembly may be taken in addition to the maximum of required hours; (2) if a student has had an average standing of B or higher in the preceding semester, he may register for more hours with approval of the office.

In order that a student may be entitled to the privilege of registration for the following semester,

Freshmen are required to have a minimum scholarship index of 0.

Sophomores are required to have a minimum scholarship index of 0.15.

Juniors are required to have a minimum scholarship index of 0.25.

Seniors are required to have a minimum scholarship index of 0.30.

Specials are required to have a minimum scholarship index of 0.25.

For graduation it is required that a student have a minimum scholarship index of 0.8 for his entire course.

### Fees

Matriculation (all new students) .....	\$ 5 00
Graduation .....	10 00
Tuition out-of-state students, per semester .....	50 00
Medical and Infirmary, per semester .....	6 00
Reading room, per semester .....	2 00

## CHANGES IN REQUIREMENTS FOR ADMISSION TO AND GRADUATION FROM THE NEW YORK STATE COLLEGE OF CERAMICS

The recent large increase in enrollment at the New York State College of Ceramics has taxed the facilities of the institution to the limit. It will be necessary to curtail the enrollment for the year 1934-35. In order that the quota will not be exceeded it may be necessary to reject applications from prospective students who rank in the lower third of their class in high school or who show no evidence of adaptation to ceramic work. When the quota is reached no more can be enrolled regardless of qualifications.

Applicants who have been denied admission may request a reconsideration of the decision. A special faculty committee will meet on the 5th and 6th of September, 1934, to hear any applicant present evidence of special adaptation to ceramic work or other evidence in support of his or her application. The Committee will then make its recommendations to the standing Faculty Committee on Admissions.

After enrollment, students may be required to meet standards of scholarship higher than those specified in the catalogue, in order to remain in College. These standards will not be unduly high and any student who has made a good high school record should be able to meet them.

Athletics, per semester .....	10 00
College Paper ( <i>Fiat Lux</i> ), Subscription \$1.25. Student Campus Tax, 75 cents per semester .....	2 00
<b>EXTRA FEES, per semester, for the use of instruments, apparatus, and laboratory materials:</b>	
Chemistry 1, 5, each .....	8 00
Chemistry 2, 3, 7, 10, each .....	10 00 or 15 00
Chemistry 4 .....	15 00
Gymnasium (freshmen, sophomores) .....	2 00
Physics 1b, 4, each .....	5 00
Surveying .....	5 00
Industrial Mechanics 6, 7, 8, 9, 12, each .....	5 00
All Pottery Courses .....	2 00
Summer Surveying, payable second semester .....	10 00

#### MISCELLANEOUS FEES AND DEPOSITS:

Drawing supplies furnished at cost.	
Chemistry breakage deposit, Chemistry 1, per year....	10 00
Chemistry breakage deposit, Chemistry 2, 3, 4, 5, 7, 10, each per year .....	15 00
Dormitory Room deposit, per year .....	10 00
Room Deposits must be paid in advance at time rooms are reserved. In case a student fails to occupy a room so reserved the deposit is forfeited. Upon surrender of the room in good condition at the close of the school year the deposit will be refunded to the student.	
Special examinations (final and mid-semester), each...	5 00
Special tests, each .....	1 00
Late registration (failure to register on registration days) .....	5 00

### TERMS OF PAYMENT

Fees are payable in four installments as follows:

Students will pay upon registration at the beginning of each year \$20.00, on account of the first semester's fees. This payment will be deducted from the semester bill when rendered. Similar payments will be made before entering classes for the second semester.

Semester bills for fees will be issued on or before the fifteenth of October and February, and must be paid at the office of the Treasurer before the first of the following month. Students who fail to comply with this regulation are reported to the Dean of the college, and are rendered liable to suspension.

Rates for rooms in the Bartlett Memorial Dormitory for freshman men and The Brick, a dormitory for women students, vary from \$50.00 to \$65.00 per semester (17 weeks) per student; for single or double rooms according to size and location;



in Burdick Hall (dormitory for men) rates vary from \$40.00 to \$50.00 per semester per student, in accordance with size and location of room. Board in Bartlett Dormitory and in The Brick is \$204 for the college year and is payable in advance in four equal installments of \$51 each, the first installment upon registration at the beginning of the year, the second November first, the third upon registration for the second semester, and the fourth March first.

Rooms and board, including fuel, can be obtained in private families for \$8 to \$10 per week. Board in clubs organized and managed by the students themselves varies from \$5 to \$6 per week, according to the means and inclinations of the students.

### Estimated Annual Expenses

Excluding cost of clothing and travel, one can go through a college year by close economy upon \$400.00 and, by exercising care, upon \$500.00. An allowance of \$600.00 is comfortable.

Board, \$5.00 to \$6.00 per week .....	\$175 - \$200
Rooms .....	60 - 130
Laundry .....	20 - 30
Books .....	35 - 45
Class dues, etc. ....	10 - 25
Incidentals and extras .....	50 - 100

Total for year .....	\$350 - \$530
Out-of-State students tuition, per year .....	\$100 - \$100

### Self-help

Many of the graduates of the College have been persons of very limited means who worked their way through. While the College cannot guarantee work to all applicants, enterprising students can usually find employment in the town with satisfactory compensation for all the time they can profitably spare from their studies. Some earn enough to meet the greater part of their expenses. Students should distinctly understand that when they attempt entire self-support they will find it necessary to lengthen their term of study.

## ADMISSION

Limitations on the enrollment are determined by the facilities of the college.

A candidate for admission to the freshman class must be (1) a graduate of an approved four-year high school, (2) of good moral character, and (3) at least sixteen years of age. The particular requirements for entrance to college explained below cover in each case not less than a four-year preparatory or high-school course.

Preparatory work is estimated in "units". The "unit" represents a course of five recitations weekly throughout an academic year of the preparatory school. Fifteen "units" or an equivalent and graduation from the school are definite requirements for unconditioned entrance.

### Entrance Requirements

ENGLISH—3 units. The candidate must be familiar with elementary rhetoric, both as a science and an art, and must be proficient in spelling, punctuation, idiom, and division into paragraphs. Preparation must include the work in English prescribed by the various college associations.

FOREIGN LANGUAGES—4 units. Latin grammar and composition; Caesar, four books of the *Gallie War*; Cicero, six orations; Virgil, six books of the *Aeneid* or equivalents; or four units from not more than three of the following: Latin, Greek, German, French, Spanish.

MATHEMATICS—2 units. Elementary algebra, including fundamental operations, factoring, fractions, ratio, proportion, radicals, quadratics; plane geometry, including the straight line, angle, circle, proportion, similarity, and areas.

SCIENCE—1 unit. Biology, botany, physiology, zoology, physical geography, physics, or chemistry. Any one subject may be offered.

ELECTIVE -5 units in addition to the above subjects.

### Summary

English .....	3 units
Mathematics .....	2 units
*Foreign languages .....	4 units
Science .....	1 unit
Elective .....	5 units

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

#### Admission on Certificate

**COLLEGE BOARD EXAMINATIONS.** A statement from the College Board certifying that a student has satisfactorily passed the College Board examination in any subject will be accepted as credit in full for that subject.

**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 such credentials cover these requirements. (For description of subjects, see *Entrance Requirements*).

**PRINCIPALS' CERTIFICATES.** Certificates are also accepted from principals of preparatory or high schools, provided such schools are known to the faculty for thoroughness of instruction. The certificate must show that the applicant is a graduate of a four-year high school. The certificate must also specify, in connection with each subject, the year in which it has been given, the extent to which it has been pursued, the amount of time given to it, and the degree of the applicant's proficiency, and must clearly show that the student has met the requirements in every way. Principals of high schools who desire to have their students admitted on certificate are invited to correspond with the Registrar, who will provide them with blank standard certificates of recommendation.

\* Candidates may offer only 2 units of foreign language, but must substitute science or advanced mathematics, or both, for the other two units of foreign language required.

### Admission on Examination

Candidates who fail to present satisfactory certificates must pass a written examination in the required subjects.

For the convenience of students not having such certificates, entrance examinations are held at Alfred on the first day of registration week (Monday, September 17, 1934).

#### Conditioned Students

No student may enter the freshman class deficient in any subject.

#### Admission to Advanced Standing

Students from other accredited colleges may enter the Ceramic College with advanced standing upon presentation of satisfactory certificates of standing and character. Such students should request the Registrar or corresponding official of the institution from which they wish to be transferred to forward to the Registrar of Alfred University the following information:

1. A statement of their entrance units, including the date of their graduation from high school.
2. A transcript of their college credits.
3. A letter of honorable dismissal signed by the proper official.
4. A statement to the effect that they are eligible to return to the institution which they are leaving.

#### Industrial Experience

Each candidate for a degree in general technology and engineering and in glass technology and engineering is required to spend one summer period of ten weeks, or the equivalent, in an approved industrial plant and to turn in a satisfactory report, together with a certifying letter from the person in charge of the work.

## Graduation

Upon students who satisfactorily complete the prescribed courses of study, Alfred University will confer the degree of Bachelor of Science. Appended to the diploma shall be a clause indicating the department in which the student specialized. (General Ceramic Technology and Engineering, Glass Technology, Ceramic Art).

## DEPARTMENTS OF INSTRUCTION

### A. DEPARTMENT OF GENERAL CERAMIC TECHNOLOGY AND ENGINEERING

Mr. Holmes  
Mr. Amberg

Mr. Merritt  
Mr. Lobaugh

Mr. Campbell

The courses of study in the department of general ceramic technology and engineering are designed to train students for any of the clay products or other closely allied ceramic industries. The technical and engineering aspects of these industries are covered in a fundamental way so that the graduate may enter any of them.

In addition to the general cultural training, which applies to all departments of the college, training in the department is intended to give the student, first of all, a thorough grounding in the fundamental sciences of mathematics, chemistry, and physics. This work occupies most of the first two years. It is followed by an application of these sciences to the technical and engineering problems of the ceramic industries.

The ceramic industries are those manufacturing products out of non-metallic, earthy, raw materials by firing operations. They include the lime, gypsum, cement, enamel, glass, refractories and clay industries. The last, which is the most important of the group includes the common brick, face brick, drain tile, sewer pipe, wall, floor and roofing tile, hollow block, fire brick, insulator, porcelain, whiteware and pottery industries. Most of the work of this department is devoted to the clay industry. All operations in these industries are studied thoroughly from both technical and engineering points of view. The objective is to give the student such a broad and fundamental training that after adequate industrial experience, he may qualify for work in connection with any phase of the building and operation of any kind of ceramic plant.

**CURRICULUM**  
**General Technology and Engineering**  
**First Year**

<i>First Semester</i>		<i>Second Semester</i>	
Mathematics 1 .....	5	Mathematics 1 .....	5
Chemistry 1 .....	4	Chemistry 1 .....	4
English 1 .....	3	English 1 .....	3
Ceramics 151 .....	½	Ceramics 102 .....	1
Drafting .....	3	Drafting .....	3
Physical Training .....	1	Physical Training .....	1
Assembly .....	½	Assembly .....	½
		Ceramics 152 .....	½
	17		18

**SUMMER SCHOOL**

Ceramics 100, Plane Surveying..... 3 credit hours  
 3 weeks following end second semester

<i>Second Year</i>			
Mathematics 3a .....	3	Mathematics 3b .....	3
Physics 1 .....	5	Physics 1 .....	5
Chemistry 2 .....	3	Chemistry 3 .....	3
Ceramics 103 .....	3	Ceramics 104 .....	3
Mineralogy .....	3	Ceramics 154 .....	2
Physical Training .....	1	Physical Training .....	1
Assembly .....	½	Assembly .....	½
	18½		17½

**Third Year**

Ceramics 113 .....	1	Mechanics .....	3
Mechanics .....	3	Chemistry 6A .....	2
Chemistry 6A .....	4	Ceramics 106 .....	3
Ceramics 105 .....	3	Chemistry 5 .....	3
Chemistry 4 .....	3	Geology .....	3
Ceramics 155 .....	3	Ceramics 156 .....	3
Ceramics 107A .....	1	Chemistry 6B .....	1
		Ceramics 107B .....	1
	18		19

**Fourth Year**

Economics .....	2	Ceramics 107C .....	1
Physics 2 .....	3	Ceramics 162 .....	2
Power and Machinery .....	2	Power and Machinery .....	2
Petrography 1 .....	3	Elective .....	4
Elective .....	4	Ceramics 114 .....	4
Ceramics 161 .....	2	Ceramics 116 .....	3
Professional English .....	2	Economics .....	2
	18		18

The elective is to be chosen with the consent of the Dean from the following subjects: German or French, seven hours; Petrography, two hours; Glass Technology, seven hours; Portland Cement, Lime, Gypsum, three hours; Enamels, four hours; Applied X-ray, four hours; Advanced Physical Chemistry, two hours.

**Description of Courses in General Ceramic Technology and Engineering**

**Ceramics 102** An introduction to the study of ceramics. The study of ceramic raw materials is introduced.  
 One lecture per week; second semester.  
 One credit hour.

**Ceramics 151** An introduction to the use of ceramic apparatus and equipment. One laboratory per week; first semester.  
 One half credit hour.

**Ceramics 152** An introduction to the use of ceramic apparatus and equipment. The making of forms, molds, and dies. Making saggers, jiggering, pressing and casting pottery is included.  
 One laboratory period per week; second semester.  
 One half credit hour.

**Ceramics 103** Ceramic Raw Materials. A detailed study of the chemical and physical properties of the important ceramic raw materials in relation to the manufacturing operation and the properties of ceramic products.  
 Three lectures per week; first semester.  
 Three credit hours.

**Ceramics 104** Processing of Clays. An engineering course dealing with the manufacturing operations of the industry up to the operations of drying and firing.  
 Three lectures per week; second semester.  
 Three credit hours. Prerequisite Ceramics 103.

**Ceramics 154** Laboratory Testing of Ceramic Materials.  
 Two laboratory periods per week; second semester.  
 Two credit hours. Prerequisite Ceramics 103.

**Ceramics 105** Drying and Firing. This course deals with the technology and engineering aspects of the commercial drying and firing of all types of ceramic products.  
 Three lectures per week; first semester.  
 Three credit hours. Prerequisite Ceramics 104.

Ceramics 155 Ceramic Processes and Products. A laboratory course dealing with the manufacturing operations involved in forming and firing various types of ceramic products.

Three laboratory periods per week; first semester.

Three credit hours. Prerequisite Ceramics 104.

Ceramics 106 Whitewares. A study of bodies, glazes and colors. A specialized course in the technology and engineering aspects of the industry in which complex mixtures and glazing are employed.

Three lectures per week; second semester.

Three credit hours. Prerequisite Ceramics 105.

Ceramics 156 Laboratory Practice in Whiteware Technology.

The preparation of bodies and the application of glazes.

Three laboratory periods per week; second semester.

Three credit hours. Prerequisite Ceramics 105.

Ceramics 107 Ceramic Calculations. Practice in the solving of problems dealing with the subject matter of the other courses.

107A. One lecture per week; first semester.

One credit hour. Prerequisite Ceramics 104.

107B. One lecture per week; second semester.

One credit hour. Prerequisite Ceramics 105.

107C. One lecture per week; second semester.

One credit hour. Prerequisite Chemistry 6.

Ceramics 161 Thesis. Original research on some ceramic problem decided upon in conference with the instructor.

Two laboratory periods per week; first semester.

Two credit hours. Prerequisite Ceramics 106.

Ceramics 162 Thesis. Continuation of Ceramics 161.

Two laboratory periods per week; second semester.

Two credit hours. Prerequisite Ceramics 106.

Ceramics 113 Pyrometry. Laboratory practice on the problems of handling pyrometric installations of the optical, radiation and thermoelectric types.

One laboratory period per week; first semester.

One hour credit. Prerequisite Ceramics 106.

Ceramics 114 Refractories and heavy clay products. The materials, manufacturing operations, properties, and uses of all kinds of refractories. A brief consideration of the more important heavy clay products.

Four lectures per week; second semester.

Four credit hours. Prerequisite Ceramics 106.

Ceramics 115 Lime, Gypsum, and Cement. The properties, manufacture, and uses of cementing materials. Optional.

Three lectures per week; first semester.

Three credit hours. Prerequisite Ceramics 104.

Ceramics 116 Design and Plant Layout. The engineering features of plant equipment for drying and firing ceramic wares; the design of this equipment and the layout of a complete typical plant.

Three laboratory periods per week; second semester.

Three credit hours. Prerequisite Ceramics 106.

Ceramics 118 Enamels. The technology and engineering aspects of the application of enamels to metals. Optional.

Two lectures per week; second semester.

Two credit hours. Prerequisite Ceramics 104.

Ceramics 168. Laboratory practice in Enamels.

Two laboratory periods per week; second semester.

Two credit hours. To be taken with Ceramics 118.

## **B. DEPARTMENT OF GLASS TECHNOLOGY AND ENGINEERING**

Mr. Scholes

These courses, together with the mathematical, scientific, and cultural courses of the entire curriculum B, should prepare the graduate for immediate usefulness in the glass industry. They are also presented as a foundation for research work in glass and allied fields of silicate technology.

In addition to these undergraduate courses, the department offers an opportunity for research work on glass problems by those who have adequate preparation, either in schools or in plant practice.

Glass manufacturers who desire to give their employees further training, or to establish fellowships for work upon their special problems, are offered the facilities of the laboratories.

## CURRICULUM

### Glass Technology and Engineering

#### First Year

<i>First Semester</i>		<i>Second Semester</i>	
Mathematics 1 .....	5	Mathematics 1 .....	5
Chemistry 1 .....	4	Chemistry 1 .....	4
English 1 .....	3	English 1 .....	3
Drafting .....	3	Drafting .....	3
Ceramics 151 .....	½	Ceramics 102 .....	1
Physical Training .....	1	Ceramics 152 .....	½
Assembly .....	½	Physical Training .....	1
		Assembly .....	½
	17		18

#### Summer School

Ceramics 100, Plane Surveying ..... 3 credit hours  
3 weeks following end second semester

#### Second Year

Mathematics 3a .....	3	Mathematics 3b .....	3
Physics 1 .....	5	Physics 1 .....	5
Chemistry 2 .....	3	Chemistry 3 .....	3
German 1 .....	3	German 1 .....	3
Ceramics 103 .....	3	Ceramics 200 .....	3
Physical Training .....	1	Physical Training .....	1
Assembly .....	½	Assembly .....	½
	18½		18½

#### Third Year

Chemistry 4 .....	3	Chemistry 5 .....	3
Chemistry 6A .....	4	Chemistry 6A .....	2
German 2 .....	3	German 2 .....	3
Mineralogy .....	3	Geology .....	3
Ceramics 201 .....	2	Elective .....	2
Ceramics 251 .....	2	Ceramics 202 .....	2
Ceramics 113 .....	1	Ceramics 252 .....	2
		Chemistry 6B .....	1
	18		18

#### Fourth Year

Physics 2 .....	3	Ceramics 114 .....	4
Power and Machinery .....	2	Ceramics 204 .....	2
Ceramics 203 .....	2	Ceramics 262 .....	2
Ceramics 253 .....	2	Elective .....	4
Ceramics 261 .....	2	Economics .....	2
Economics .....	2	Ceramics 254 .....	2
Elective .....	1	Power and Machinery .....	2
Petrography 1 .....	3		
Professional English .....	2		
	19		18

The elective is to be chosen with the consent of the Head of the Department from the following subjects; General Ceramics, eight hours; German, six hours; Economics, four hours; French, eight hours; Chemistry, three hours.

### Description of Courses in Glass Technology and Engineering

**Ceramics 200 Raw Materials for Glass.** A study of the methods of production of the minerals and chemicals used in glass; their chemical reactions and properties; the chemistry of the glass-forming oxides.

Three lectures per week, second semester.

Three credit hours.

**Ceramics 201 and 251 Glass-Making Materials and Melting Processes.** An elementary laboratory study of raw materials: methods of testing for purity, chemical composition, functions in glass-melting. Simple glasses are melted and the melting process studied in relation to refractories, containers, temperatures, batch composition, and fining agents. Lectures, study-outlines, and references to the literature of glass, covering raw materials, furnace design and operation, tank blocks and pots, the fundamental chemistry of glass-making and calculations. Two lectures, two laboratory periods per week, first semester.

Four credit hours.

Prerequisite, two years college work in Science or equivalent experience.

Ceramics 202 and 252 Glass-Working and Testing. Laboratory studies of glasses for specific commercial purposes; demonstrations of hand-working by skilled workmen; studies of annealing; testing of laboratory and commercial specimens for strain, mechanical and chemical resistance, and visible defects.

Lectures, recitations and reports on compounding glasses, working processes, annealing, finishing, etching and other forms of decoration, testing and defects in commercial glassware.

Two lectures, two laboratory periods per week, second semester.

Four credit hours.

Ceramics 203 and 253 Glass Colors and Decolorizing. A laboratory study of colorants. Experimental meltings demonstrating the effects of the common and unusual colorants, the influence of batch and glass compositions, studies of temperature, time and furnace atmosphere with relation to colors. Similar practice in decolorizing crystal glass.

Lectures and reading assignments. Two lectures, two laboratory periods per week, first semester.

Four credit hours.

Ceramics 204 and 254 The Physics of Glass. Laboratory practice in the measurement of the physical and optical properties of glass. The identification of defects. Both laboratory specimens and commercial glasses will be examined.

Lectures on relation between composition and specific physical properties; optical properties; constitution theory; historical development.

Two lectures and two laboratory periods per week, second semester.

Four credit hours.

Ceramics 261 Glass Thesis. Laboratory study of a problem selected in conference with the department head.

Two laboratory periods, first semester.

Two credit hours.

Ceramics 262 Glass Thesis. Continuation of Ceramics 261, second semester.

Two laboratory periods, second semester.

Two credit hours.

## C. DEPARTMENT OF CERAMIC ART

Miss Fosdick

Miss Nelson

Mr. Harder

Part Time Instruction

Mr. Merritt

Miss Hewitt

### 1. Industrial Art Course

A course of study which combines an intensive program in ceramics, design, and drawing with subjects in the department of general technology and engineering, and in the department of glass technology. This course has as its objective the training of the ceramic artist which will qualify him for the position of designer for the architectural terra cotta, glass, tile or white-ware industries.

## CURRICULUM

### First Year

<i>First Semester</i>		<i>Second Semester</i>	
Chemistry 1 .....	4	Chemistry 1 .....	4
Ceramics 351 (Pottery) ....	1	Ceramics 352 (Pottery).....	1
Ceramics 303 (Theory).....	1	Ceramics 304 (Theory) ....	1
Ceramics 355 (Drawing).....	3	Ceramics 356 (Drawing)....	3
Ceramics 357 (Lettering)....	1	Ceramics 358 (Lettering)....	1
Ceramics 359 (Design).....	2	Ceramics 360 (Design).....	2
Mechanical Drawing .....	2	Mechanical Drawing .....	2
English 1 .....	3	English 1 .....	3
Physical Training .....	1	Physical Training .....	1
Assembly .....	$\frac{1}{2}$	Assembly .....	$\frac{1}{2}$
<hr/>		<hr/>	
18 $\frac{1}{2}$		18 $\frac{1}{2}$	

## Second Year

Ceramics 305 (Theory).....	1	Ceramics 306 (Theory).....	1
Ceramics 361 (Cer. Lab.)...	2	Ceramics 362 (Pottery).....	2
Elective .....	2	Elective .....	2
Ceramics 363 (Drawing).....	4	Ceramics 364 (Life Drawing)	2
English 2 .....	3	English 2 .....	3
Chemistry 2 (Qualitative)...	3	Ceramics 366 (Professional	
Ceramics 367 (Design).....	2	Rendering) .....	2
Physical Training .....	1	Ceramics 368 (Design) .....	2
Assembly .....	½	Ceramics 102 .....	1
		Chemistry 3 (Quantitative)...	3
		Physical Training .....	1
		Assembly .....	½
	18½		19½

## Third Year

Ceramics 393 (Metal).....	2	Ceramics 104 (Processing of	
Ceramics 373 (Tiles).....	2	clays) .....	3
Ceramics 377 (Drawing).....	2	Ceramics 374 (Metal).....	2
Ceramics 379 (Design).....	2	Ceramics 378 (Drawing)....	2
Ceramics 375 (Ceramics with		Ceramics 380 (Design).....	2
reading course in History		Ceramics 376 (375 continued)	2
of Ceramics) .....	2	Ceramics 154 (Lab. for 104).	2
Ceramics 103 (Raw Ma-		History of Western Europe..	3
terials) .....	3	Ceramics 372 (Architectural	
History of Western Europe.	3	Modeling) .....	3
Ceramics 371 (Architectural			
Modeling) .....	3		
	19		19

## Fourth Year

Ceramics 381 (Pottery).....	3	Ceramics 382 (Pottery).....	3
Ceramics 383 (Theory).....	2	Ceramics 384 (Theory).....	2
Ceramics 395 (Kiln Con-		Ceramics 396 (Kiln Con-	
struction) .....	1	struction) .....	1
Ceramics 389 (Design).....	2	Ceramics 390 (Design).....	2
Ceramics 391 (History of Art)	2	Ceramics 392 (History of Art)	2
Woodworking .....	1	Woodworking .....	1
Ceramics 397 (Ceramic De-		Ceramics 398 (Ceramic De-	
sign) .....	2	sign) .....	2
Elective from Glass or White		Elective from Glass or White-	
wares .....	4	wares .....	4
	17		17

## 2. Applied Art Course

Applying to students who entered in September, 1932 or before. Some changes will be made in the Junior and Senior years of the Applied Art curriculum for students entering in 1933.

## CURRICULUM

### First Year

<i>First Semester</i>		<i>Second Semester</i>	
Chemistry A .....	1	Chemistry B .....	1
Ceramics 351 (Pottery).....	1	Ceramics 352 (Pottery).....	1
Ceramics 303 (Theory).....	1	Ceramics 304 (Theory).....	1
Ceramics 355 (Drawing)....	3	Ceramics 356 (Drawing)....	3
Ceramics 357 (Lettering)....	1	Ceramics 358 (Lettering)....	1
Ceramics 359 (Design).....	2	Ceramics 360 (Design).....	2
Mechanical Drawing .....	2	Mechanical Drawing .....	2
English 1 .....	3	English 1 .....	3
Modern Language .....	3	Modern Language .....	3
Physical Training .....	1	Physical Training .....	1
Assembly .....	½	Assembly .....	½
	18½		18½

### Second Year

Ceramics 305 (Theory).....	1	Ceramics 306 (Theory).....	1
Ceramics 361 (Ceramic Lab.)	2	Ceramics 362 (Pottery).....	2
Ceramics 363 (Drawing)....	4	Ceramics 364 (Life Drawing)	2
Ceramics 367 (Design).....	2	Ceramics 366 (Drawing)....	2
English 2 .....	3	Ceramics 368 (Design).....	2
Modern Language .....	3	English 2 .....	3
Elementary Psychology .....	2	Modern Language .....	3
Physical Training .....	1	Elementary Psychology .....	2
Assembly .....	½	Physical Training .....	1
	18½	Assembly .....	½
	18½		18½

### Third Year

Ceramics 371 (Pottery).....	3	Ceramics 372 (Pottery).....	3
Ceramics 373 (Tiles).....	2	Ceramics 374 (Metal Crafts).	2
Ceramics 375 (History of		Ceramics 376 (History of	
Ceramics) .....	2	Ceramics) .....	2
Ceramics 377 (Drawing)....	2	Ceramics 378 (Drawing)....	2
Ceramics 379 (Design).....	2	Ceramics 380 (Design)....	2
Educational Psychology .....	3	Principles of Education .....	3
History of Western Europe..	3	History of Western Europe..	3
History of Education .....	2	History of Education .....	2
	19		19



#### Fourth Year

Ceramics 381 (Pottery).....	3	Ceramics 382 (Pottery).....	3
†Ceramics 383 (Theory).....	2	Ceramics 384 (Theory).....	2
Ceramics 385 (Textiles).....	1	Ceramics 386 (Textiles).....	1
Ceramics 387 (Practice Teaching) .....	2	Ceramics 388 (Special Methods) .....	4
Ceramics 389 (Design).....	2	Ceramics 390 (Design).....	2
Ceramics 391 (History of Art)	2	Ceramics 392 (History of Art)	2
General Methods of Education	3	General Methods of Education	1
Woodworking .....	1	Woodworking .....	1
<b>16</b>		<b>16</b>	

† Additional drawing courses may be substituted.

### Description of Courses in Ceramic Art

#### 1. Industrial Art

Ceramics 351, 352, 362, 363, 371, 372, 381 and 382 cover the various methods of pottery production including hand building, the potter's wheel, and mold construction. Ceramic design is an integral part of every course, and stresses the decorative possibilities peculiar to each method of production. The structure of glazes and a wide range of decorative processes are included.

Ceramics 373. This course covers the production of tiles with reference to their various architectural applications.

Ceramics 303, 304, 305, 306, 361, 375, 376, 383, and 384 cover the fields of ceramic theory and laboratory experiment essential to a general knowledge of clays and glazes.

In all the ceramic courses kilns are studied and practical experience with various types is required.

Ceramics 371 and 372 in the Industrial Arts course cover architectural modeling, and Ceramics 381 and 382 in this course are utilized in specialization in glass or whitewares according to the student's choice.

#### Drawing

Ceramics 355 and 356 These courses are thorough in the fundamentals of freehand drawing, including the principles of perspective.

Ceramics 357 and 358. Lettering.

Ceramics 363. Still Life in Charcoal.

Ceramics 364. Figure Study.

Ceramics 366. Professional rendering.

Ceramics 377 and 378. Continuation of 363—colour.

#### Design

Ceramics 359, 360, 367, 368, 379, 380, 389 and 390. The student is helped to understand the decorative possibilities of ceramic materials through the creative use of the technical principles involved in design. Advancement depends on the student's native ability and industry.

The work in line, form and colour is directly related to materials throughout the four years of the course.

#### Metal Working

Ceramics 374 and 393. The courses in metal working include both hammered and constructed work. A correlation between the pottery and metal work is effected by making metal fittings for ceramic objects.

#### History of Art

Ceramics 391 and 392. A survey of the fine arts and crafts through the ages.

## OTHER REQUIRED COURSES

The catalogue of Alfred University gives descriptions of the required courses which do not deal with ceramic subjects and which are not given in the Ceramic College. Those given in the Ceramic College are described below:

### CHEMISTRY

Mr. Rice

Mr. Cortelyou

A. ELEMENTARY CHEMISTRY. Required of all applied art freshmen. *One hour, I.*

B. CERAMIC CHEMISTRY. A continuation of Chemistry A. *One hour, II*

1. **INORGANIC CHEMISTRY.** A systematic study of the fundamental principles of chemistry. Lectures and recitations, three periods; laboratory, two periods. *Four hours throughout the year.*

2. **QUALITATIVE ANALYSIS.** Qualitative analysis of metals and inorganic compounds and the chemical principles involved. Prerequisite, Chemistry 1. *Three hours, I.*

3. **QUANTITATIVE ANALYSIS.** Volumetric and gravimetric analysis. Lecture, one period; laboratory, two periods. Prerequisite, Chemistry 2. *Three hours, II.*

4. **QUANTITATIVE ANALYSIS.** The analysis of silicate rocks, clays, and ceramic materials. Lecture, one period; laboratory, two periods. Prerequisite, Chemistry 3. *Three hours, I.*

5. **FUELS AND COMBUSTION.** Fuels, principles of combustion, the heat balance. Prerequisite, Chemistry 3. *Three hours, II.*

6. **PHYSICAL CHEMISTRY.** An elementary course in theoretical chemistry. Prerequisites, Chemistry 3, Mathematics 3a and 3b, Physics 1a and 1b. Four lectures, I; two lectures, II.

6a. **ADVANCED PHYSICAL CHEMISTRY.** An advanced course for ceramic students. Two lectures, II. Prerequisite, Chemistry 6. *Two hours, II.*

6b. **PHYSICAL CHEMISTRY LABORATORY.** One period, II. This course is to be taken with Chemistry 6. *One hour.*

## **GEOLOGY AND MINERALOGY**

Mr. Amberg

Mr. Lobaugh

Mr. Campbell

**Mineralogy.** This course includes an introduction to crystallography and a study of minerals and their identification by chemical and physical tests.

One lecture and two laboratory periods per week.

First semester. Three credit hours.

**Geology.** This is a course in general geology with special reference to the materials of ceramic importance.

Three lectures per week; second semester.

Three credit hours.

**Petrography 1. Practical Petrography.** A course designed to prepare the student for the microscope work ordinarily required in the average ceramic plant.

Two lectures and one laboratory period per week.

First semester; three credit hours. Prerequisite Ceramics 105.

**Petrography 2.** The practical use of the petrographic microscope in identifying crystals of natural and artificial minerals. Optional.

Two laboratory periods per week; second semester.

Two credit hours. Prerequisite Petrography 1.

**Applied X-rays.** The study of X-ray diffraction as applied to the examination of ceramic materials.

One lecture and one laboratory period per week; first and second semesters.

Two credit hours per semester.

## **INDUSTRIAL TESTS AND RESEARCH**

### **Clay Testing**

Mr. Holmes

Mr. Rice

Mr. Amberg

Mr. Merritt

Mr. Campbell

The State College of Ceramics is fitted and the experts in charge are qualified, for the professional examination and testing of clays for economic purposes. Charges in line with those of industrial laboratories are made.

A report upon each sample will be furnished and must be understood to refer only to the samples 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 physical tests and chemical 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.

The tests include chemical analyses, and all the physical tests employed in the industry. Research on any ceramic problem will be undertaken. Manufacturers are invited to present questions for study. Persons resident within the State are entitled to reasonable services without charge.

## **DEGREES CONFERRED**

June 13, 1933

### **Bachelor of Science**

(Course in General Ceramic Technology and Engineering)

Leonard Breeman, Jr.	Walter John Merck
Eugene Rogers Crandall	Frederick Wentworth Muller
Donald Applebee Dickens	Van Rensselaer Ostrander
Donald Ralph Goetchius	Robert Warner Rowley
Karl Mutchler Hammann, Jr.	Joseph Benjamin Towner
Ralfe Weisel Klinger	

### **Bachelor of Science**

(Course in Applied Art)

Elnora Maxine Armstrong	Doris Elaine Marley
Marcia Elizabeth Colgrove	Vivian Hope Parmalee
Olive Chamberlin Jenks	Ruby Donna Robinson

### **Master of Science**

(Course in General Ceramic Technology and Engineering)

Sandford Stoddard Cole

## **HONORS**

### **Juniors**

Elsie Ferrar Bonnet	Walter Ivan Tolbert
Earl Kilmer Davis	Vincent Eldredge Wessels
Lewis Donald Morris	

### **Sophomores**

Frances Millicent Douglass	Kenneth Titsworth Greene
Andrew Joseph Fedor	William Stuart Hawkes

### **Freshmen**

Rose DeRossi	Leslie Francis Pither	Ludwig Vogel
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# REGISTRATION OF STUDENTS 1932-1933

## JUNIORS

NAME	RESIDENCE	COURSE
Arwine, Alva Stewart	Hornell	Glass
Bakker, Lammechiena	Plainfield, N. J.	Art
Bastow, Edna Margaret	Dobbs Ferry	Art
Bonnet, Elsie Ferrar	Ridley Park, Pa.	Art
Chous, Michael	Spring Valley	Eng.
Cibella, Rosario Casimir	Rochester	Glass
Davis, Earl Kilmer	Rushford	Glass
Deegan, Joseph Eugene	Elmira	Eng.
Dewey, Benjamin Franklin	Wellsville	Eng.
Eaton, Dorothy Helen	Oneida	Art
Gregory, Glenn Albert	Skaneateles	Glass
Hall, Elsie Mae	Kenmore	Art
Hallett, Crawford William	Canisteo	Glass
Hawk, Mary Janet	Kittanning, Pa.	Art
Henry, Lester Max	Hornell	Glass
Hopper, Lawrence Steinhauer	Buffalo	Eng.
House, Dorothy Ruth	Chester	Art
Kilburn, Theola Evelyn	Little Valley	Art
Kingsley, William Paul	Newburgh	Eng.
Keunn, William Whitney	Franklinville	Eng.
Leach, Marjory Phyllis	Whitesville	Art
Morris, Lewis Donald	Conesus	Glass
Olney, Mary Rightmire	Waverly	Art
Razey, Robert Martin	Hornell	Eng.
Reitz, Adolph Gottfried	Bolivar	Eng.
Reynolds, Owen Joseph	Addison	Eng.
Ricker, Richard Wilson	Galion, Ohio	Eng.
Smathers, Helen Louise	Bradford, Pa.	Art
Smith, Wilma Myrtle	Cuba	Art
Stillman, Winifred Elizabeth	Alfred	Art
TenBroeck, Theodore Roosevelt	Newburgh	Glass
Tolbert, Walter Ivan	Elmira	Glass
Train, Mary Stillwell	Savannah, Ga.	Art
Turner, Cornelius Francis	Newburgh	Eng.
Vincent, Jennie Louise	Alfred	Art
Walton, Miriam Helene	Canastota	Art
Watts, Hazel Almeda	Pine City	Art
Wessels, Vincent Eldridge	Avoca	Glass
Weston, Vera Mildred	Niagara Falls	Art
Young, Albert Vincent	Buffalo	Glass

## SOPHOMORES

Adessa, Philip Patrick	Cortland	Eng.
Arnant, Marjorie Lala	Johnson City	Art
Bailey, Lucile Cushing	Olean	Art
Bentley, Francis Northrup	White Plains	Eng.
Bertini, Americo	Cortland	Eng.

NAME	RESIDENCE	COURSE
Blanchford, Henry Elmslie	Richmond Hill	Eng.
Burdick, Gerald Frederick	Little Genesee	Eng.
Butler, Max Eugene Hawley	Elmira Heights	Glass
Butler, William Francis	Troy	Glass
Carey, James Sheldon	Bath	Art
Clark, Charles Walter	Bath	Art
Comstock, Philip Edward	Scottsville	Eng.
Corsaw, Roger De	Alfred	Art
DeWitt, Mary Georgiana	Alfred	Art
Davidson, Albert William	Friendship	Eng.
Davies, Chester Alan Arthur	Queens Village	Eng.
Day, Mary Kathryn	Hornell	Art
Douglass, Frances Millicent	Brooklyn	Art
Emery, Mary Josephine	Beacon	Art
Fedor, Andrew Joseph	Franklin, N. J.	Eng.
Firestine, Arthur	Warsaw	Eng.
Foote, Robert Frederick	Hollis	Glass
Galchinsky, Hyman	Brooklyn	Glass
Gale, Hyman Bernard	Brooklyn	Glass
Gillespie, Elizabeth Bond	New Haven, Conn.	Art
Greene, Kenneth Tittsworth	Alfred	Glass
Grow, Georgia Christine	Avon	Art
Gulliver, Glenn Reusselacr	Hornell	Eng.
Hanson, Arvid Holger	Corning	Eng.
Hawkes, William Stuart	Manchester	Eng.
Henderson, Bethel Mary	Hornell	Art
Hillwig, William Alonza	Olean	Eng.
Java, Michael Joseph	Mineville	Eng.
Johnson, Howard Allen	New York City	Eng.
Johnson, Virgil Lovillo	Friendship	Eng.
Kazukevich, Joseph Peter	New York City	Eng.
Knapp, James Louis	Avoca	Glass
Kohn, Lester Peter	Brooklyn	Glass
Landis, Mildred Miller	Alfred	Art
McLean, John Roderick	Hempstead	Eng.
McNamara, Edward Paul	Troy	Eng.
Marzello, Emmett Richard	North Troy	Glass
Mason, William Beecher	Yonkers	Eng.
Miller, Russel Arnold	Liberty, Pa.	Eng.
Mitchell, Henry Edward Moore	White Plains	Glass
Olsen, Howard Henry	Queens Village	Eng.
Parmelet, Dorothy Elizabeth	Newburgh	Art
Partridge, Josephine Pomeroy	Ridley Park, Pa.	Art
Perkins, Edward Floyd	Salamanca	Eng.
Reimer, John Joseph	Hamburg	Eng.
Richmond, Joseph Carol	Alfred	Glass
Riley, Jr., Charles Philip	Hornell	Eng.
Sarandria, Joseph Anthony	West New York, N. J.	Eng.
Seilken, Morton	Astoria	Eng.
Smigrod, Gilbert	Cedarhurst	Glass
Smith, Frank Lynn	Cuba	Art
Townsend, Leslie Winfield	Salamanca	Eng.

NAME	RESIDENCE	COURSE
Welch, William Willison	Rochester	Eng.
Whaley, Arthur Hammond	Patchogue	Eng.
Wood, Arthur Kenneth	Punxsutawney, Pa.	Eng.

#### FRESHMEN

Alden, Charles Edward	Hornell	Eng.
Andrijew, Karol Ignacy	Rochester	Eng.
Austin, Lewis Martin	Pleasantville	Eng.
Bardeen, Mary Alice	Hornell	Art
Barden, Delbert LaShore	Chatham	Eng.
Barvian, Margaret Anna	White Plains	Art
Bates, Thelma Mary	Vernon	Art
Bennett, Philip Morgan	Rockville Center	Eng.
Besley, John Seward	Pine City	Eng.
Blake, Ada Estelle	Queens Village	Art
Bogorad, Herbert Orrie	Spring Valley	Eng.
Bragg, Virginia Page	Norfolk, Va.	Art
Brewster, Edwin Leroy	Sherrill	Eng.
Brunswick, Helen Marie	Lawrence	Art
Carrier, William Isaac	Canisteo	Eng.
Collins, Marion Lucille	Aurora	Art
Colyer, Margaret Jean	Riverhead	Art
Conrad, Wilson Robert	West Valley	Eng.
Cook, Weldon Charles	Alfred	Eng.
Cooley, Jr., Robert Emmett	Batavia	Eng.
Corbman, Morris	Spring Valley	Eng.
Crafts, Helen Elizabeth	Rochester	Art
Crisjohn, Donald Warren	Allentown	Eng.
Cutler, Morris Aaron	Brooklyn	Eng.
DeRossi, Rose	Amsterdam	Art
DiRusso, Nove George	Jamaica	Eng.
Dake, Madora Winifred	East Aurora	Art
Disinger, Helen Edmiere	Plainfield, N. J.	Art
Dolan, Robert Benedict	Wellsville	Eng.
Earl, Doris Potter	Bayonne, N. J.	Art
Edsall, Leslie	Bath	Eng.
Engelder, Theodore Oscar	Wellsville	Eng.
Evans, Charles Edwin	Skaneateles	Eng.
Felter, Jr., Warren Biart	Bogota, N. J.	Eng.
Flanagan, Eugene Leo	Floral Park	Eng.
Foster, George Alexander	Greenwich	Eng.
French, Preston Wesley	Avoca	Eng.
Gibbons, Jr., James Arthur	Bogota, N. J.	Eng.
Granger, Louis Thomas	Mechanicville	Eng.
Gray, Emerson Misner	Belmont	Eng.
Greene, Clarida Stillman	Spring Valley	Art
Haines, Elliot VanCleaf	Forked River, N. J.	Eng.
Harris, Francis Dominic	Olean	Eng.
Hayward, Donald	White Plains	Eng.
Hedges, Lee Minor	West Valley	Eng.
Henshaw, William Hoyt	Alfred	Eng.
Hibbard, Glenn Arnold	Bolivar	Eng.

NAME	RESIDENCE	COURSE
Hodges, Eric George	Ogdensburg	Eng.
Horton, Adelaide Raniel	Niagara Falls	Art
Howe, Robert Knibloe	Mt. Morris	Eng.
Ives, Charles Louis	Wellsville	Eng.
Jelly, Frederic Halsey	Franklin, N. J.	Eng.
Jewart, Charles Nelson	Blasdell	Eng.
Kegan, Elmer Joseph	Glens Falls	Eng.
Koppen, Mary Ernestine	Castile	Art
Kessler, Ernest Arthur	Long Beach	Eng.
Kovacs, Paul Bence	Franklin, N. J.	Eng.
Lampman, Jr., Charles Major	Wellsville	Eng.
Landis, Orville Richard	Niagara Falls	Eng.
Lerz, Edward Bradley	Valley Stream	Eng.
Little, James David	Greenwich	Eng.
Loytty, Eric Helge	Corning	Eng.
McGinnis, Raymond James	Wellsville	Eng.
Marvin, James Joseph	Arkport	Eng.
Marvin, Maxwell Holsey	Almond	Eng.
Mautner, Bernice Beth	Far Rockaway	Art
Michaels, William	South Ozone Park	Eng.
Mills, Phoebe Minerva	Wellsville	Art
Minnick, Daniel	Salamanca	Eng.
Muffitt, John Albert	Lewiston	Art
Murray, Robert Smith	Cedarhurst	Eng.
Nevius, John Condict	Hornell	Eng.
Nowell, Cameron William	Wellsville	Eng.
Oldfield, Bernard Edward	Buffalo	Eng.
Ostrander, Eugene Cowles	Olean	Eng.
Palmer, Helen Victoria	West New York, N. J.	Art
Palmer, Hugh Carlton	Nichols	Eng.
Parkman, Helen Atkins	Falconer	Art
Phillips, Edwin Lewis	Carthage	Eng.
Piper, Jr., Howard Everett	Wellsville	Eng.
Pither, Leslie Francis	Yonkers	Eng.
Potter, Donald Volney	Belmont	Eng.
Potter, Maurice Richard	Wellsville	Eng.
Prior, Harold David	Wellsville	Eng.
Radder, Mary Martha	Watertown	Art
Randall, Blossom Minnie	Machias	Art
Roberts, Kenneth Vern	Chadwicks	Eng.
Robinson, Avery Benjamin	Newark	Eng.
Rodier, Julia Louise	Maple Springs	Art
Root, Helen Prentice	Bolivar	Art
Rosenberg, Elmer Edward	Brooklyn	Eng.
Rotmans, Dorothy Grace	Rochester	Art
Safford, Hurd Winter	Keesville	Eng.
Sancomb, Sydney Oscar	Castleton	Art
Schatz, Stuart Christian	Hazleton, Pa.	Eng.
Schlafer, Reynold Wilson	Walton	Eng.
Shafer, Harriet Alwilda	Angelica	Art
Shafer, Margaret Elizabeth	Angelica	Art
Shed, Mary Elizabeth	East Aurora	Art
Sherman, Margery Kimball	Syracuse	Art

NAME	RESIDENCE	COURSE
Shields, Thomas Edgar	Niagara Falls	Eng.
Shipman, Helen Agnes	Binghamton	Art
Sleeper, John Lee	Holland	Eng.
Smith, Mildred Viola	Alfred	Art
Smith, Phillips Perry	Homer	Eng.
Stamp, Farley Lamire	Nunda	Art
Stringham, Kenton Ernest	Franklinville	Eng.
Stull, Jean Patricia	Olean	Art
Sutherby, Thomas Foster	Hornell	Eng.
Teal, Burton Stafford	Orchard Park	Eng.
Treharne, John Francis	Punxsutawney, Pa.	Eng.
Trumbull, George William	Corning	Eng.
VanDyke, Loyal	Canisteo	Eng.
Valentine, Rosamond Frances	Spencer	Art
Vogel, Ludwig	Elmira	Eng.
Wagstaff, Jane Minerva	Syracuse	Art
Webb, Herbert James	Buffalo	Eng.
Weiss, Irvin Ferdinand	North Plainfield, N. J.	Eng.
Wells, Vincent Edgar	Wellsville	Eng.
Wilks, Katherine Virginia	Kenmore	Art
Wizeman, Burton Carl	Hornell	Eng.
Young, Charles Adam	Hornell	Eng.

### SPECIALS

Amerling, Ruth Sarah, A. B. in Art Education	Erie, Pa.	Art
Bouck, Constance Worcester, S. B.	Leadville, Colo.	Art
Cole, Sanford Stoddard, S. B. in Ceramic Engineering	Hornell	Glass
Gustafson, Martha Lucille, A. B. in Art Education	Kane, Pa.	Art
Huffcut, Harold Winters, S. B. in Ceramic Engineering	Union Springs	Art
Titsworth, II, Alfred Alberti, S. B. in Applied Art	Alfred	Glass

### SUMMARY

	Art	Engineering	Total
Graduates, June 13, 1933	6	11	17
Juniors	18	22	40
Sophomores	16	44	60
Freshmen	38	84	122
Specials	4	2	6
Total in Regular Session	82	163	245

