

THE 81
NEW YORK
STATE SCHOOL
OF
CLAY WORKING
AND CERAMICS

AT

ALFRED UNIVERSITY
ALFRED, N.Y.

1931 · 1932



ALFRED UNIVERSITY PUBLICATION

New York State School of Clay Working
and Ceramics

Catalogue Number



1931 - 1932

Alfred, N. Y.

February, 1932

No. 2

*Published Monthly by Alfred University. Entered as second class matter
at Alfred, N. Y., under act of Congress, July 16, 1894*

*Accepted for mailing at special rate of Postage provided for in Section
1103, Act of Oct. 3, 1917, authorized on July 3, 1918.*

Calendar

First Semester, 1931-1932

Entrance examinations	Monday	1931 Sept. 21
"Freshman Week"	Tues. and Wed.	Sept. 22-23
Registration for Seniors, Juniors, and Sophomores	Thurs. and Fri.	Sept. 24-25
Instruction begins	Monday	Sept. 28
Mid-semester grades	Thursday	Nov. 10
Thanksgiving Day, holiday	Thursday	Nov. 26
Founders' Day	Saturday	Dec. 5
Christmas Recess begins	Thursday evening	Dec. 17
CHRISTMAS RECESS		
1932		
Instruction resumed	Tuesday morning	Jan. 5
Mid-year examinations begin	Friday	Jan. 29
Examinations end; semester ends	Friday evening	Feb. 5

Second Semester

Instruction begins	Wednesday morning	Feb. 10
Mid-semester grades	Thursday	Mar. 24
Easter Recess begins	Thursday evening	Mar. 24
EASTER RECESS		
Instruction resumed	Monday morning	Apr. 4
Memorial Day, half holiday	Monday	May 30
Final examinations begin	Friday	June 3
Senior examinations end	Tuesday	June 7
Under-class examinations end	Friday	June 10
Junior examinations end	Tuesday	June 14
NINETY-SIXTH COMMENCEMENT		
Commencement Play	Saturday evening	June 11
Annual Sermon before Christian Associations	Sunday morning	June 12
Baccalaureate Sermon	Sunday evening	June 12
Alumni Association Directors' meeting	Monday afternoon	June 12
Annual Concert	Monday evening	June 13
Class breakfasts and reunions	Tuesday morning	June 14
Annual meeting of Trustees	Tuesday morning	June 14
Annual meeting of Corporation	Tuesday afternoon	June 14
Class-day Exercises	Tuesday afternoon	June 14
Alumni Banquet	Tuesday evening	June 14
Commencement Exercises	Wednesday morning	June 15
Alumni Association, Public Session	Wednesday afternoon	June 15
President's Reception	Wednesday evening	June 15

SUMMER VACATION

Summer Session, 1932

Term begins	Tuesday	July 5
Term ends	Friday	Aug. 12

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Entrance examinations	Monday	Sept. 19
"Freshman Week"	Tues. and Wed.	Sept. 20-21
Registration for Seniors, Juniors and Sophomores	Thurs. and Fri.	Sept. 22-23
Instruction begins	Monday	Sept. 26
Mid-semester grades	Thursday	Nov. 17
Thanksgiving Recess begins	Wednesday evening	Nov. 23
THANKSGIVING RECESS		
Instruction resumed	Monday morning	Nov. 28
Founders' Day	Monday	Dec. 5
Christmas Recess begins	Thursday evening	Dec. 15
CHRISTMAS RECESS		
Instruction resumed	Tuesday morning	Jan. 3
Mid-year examinations begin	Friday	Jan. 27
Examinations end; semester ends	Friday evening	Feb. 3

Second Semester

Instruction begins	Tuesday morning	Feb. 7
Mid-semester grades	Thursday	Mar. 29
Easter Recess begins	Thursday evening	Apr. 13
EASTER RECESS		
Instruction resumed	Monday morning	Apr. 24
Memorial Day, half holiday	Tuesday	May 30
Final examinations begin	Friday	June 2
Senior examinations end	Tuesday	June 6
Under-class examinations end	Friday	June 9
Junior examinations end	Tuesday	June 13
NINETY-SEVENTH COMMENCEMENT		
Annual Concert	Saturday evening	June 10
Annual Sermon before Christian Associations	Sunday morning	June 11
Baccalaureate Sermon	Sunday evening	June 11
Alumni Association Directors' meeting	Monday afternoon	June 12
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Term begins	Monday	July 3
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OFFICERS OF INSTRUCTION

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ERMA B. HEWITT
Instructor in Metal Work.

* Retired, December 31, 1931; Murray J. Rice and Charles R. Amberg temporary Co-directors since January 1, 1932.

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Ceramic Chemistry

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NEW YORK STATE SCHOOL OF CLAY- WORKING AND CERAMICS

In founding this school 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 co-operation 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 has been 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 Applied Art plans to beautify the product and enhance its appeal to the consumer.

The New York State Legislature has recently granted \$175,000 for a new ceramic building which will accommodate the departments of drawing and design and the courses in advanced engineering. A new department of glass technology is being organized with an experienced technologist in charge. The building is located north of the present building and is expected to be ready for occupancy in September, 1932.

There are two courses of instruction, each of which extends over four years and is equivalent to an accepted college course. In the course in Ceramic Engineering, instruction is given in the preparation and use of clays and other ceramic

materials; in the use of machines, molds and dies for the shaping of various products and in the design and operation of all descriptions of kilns and furnaces. Lectures and laboratory exercises are arranged for the planning and preparation of ceramic materials including clay bodies, glazes, glasses, enamels and colors. Graduates are thus qualified to occupy positions as ceramic chemists, technical experts, or department managers.

The course in Applied Art is open to both men and women. Those taking this course are given instruction in drawing, painting, and design, thorough training in ceramic technique, practice, and theory, and in the allied crafts, including decorative textiles. Students showing special ability may elect additional courses in metal work 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.

Graduates are entitled to a Special Provisional Certificate for the teaching of art in the Public Schools of the State of New York. A permanent Certificate may be granted upon the completion of a two credit course in life drawing within three years after graduation.

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 at Easter, and a summer vacation of about thirteen weeks.

Class Exercises

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

Unit of Credit

One class 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-two 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 seventeen with the following exceptions; (1) physical training and assembly may be taken in addition to the maximum of seventeen 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
Medical and Infirmary, per semester	6 00
Reading room, per semester	2 00

Athletics, per semester	10 00
College Paper (<i>Piat Lux</i>), Subscription \$1.25. Student Campus Tax, 75 cents per semester	2 00

EXTRA FEES, per semester, for the use of instruments, apparatus, and laboratory materials:

Chemistry 1, 5, each	8 00
Chemistry 2, 3, 7, 10, each	10 00 or 15 00
Chemistry 4	15 00
Drafting	2 00
Gymnasium (freshmen, sophomores)	2 00
Physics Ib, 4, each	5 00
Surveying	5 00
Industrial Mechanics, 9, 12, each	5 00
Industrial Mechanics, 6, 7, 8, each	8 00

MISCELLANEOUS FEES AND DEPOSITS:

Chemistry breakage deposit, Chemistry 1, per year.....	10 00
Chemistry breakage deposit, Chemistry 2, 3, 4, 5, 7, 10, each	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 (All students not registering on registration days, and all students who are absent from all classes on the first day of a semester)	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.

Rooms and board, including fuel, can be obtained for \$8.00 to \$10.00 per week. Board in clubs organized and managed by the students themselves varies from \$5.00 to \$6.00 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 \$300, and, by exercising care, upon \$400. An allowance of \$450 is comfortable.

Board, \$5.00 to \$6.00 per week	\$175—\$200
Rooms	60—130
Laundry	20—30
Books	25—35
Class dues, etc.	10—25
Total for year	\$290—\$420

Self-help

Many of the graduates of the school have been persons of very limited means who worked their way through. While the school 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

A candidate for admission to the freshman class must be (1) at least sixteen years of age, (2) of good moral character, and (3) a graduate of an approved four-year high school. 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.

Each student must be able to pass an examination upon the books selected from the list prescribed by the college entrance associations. The following ten are recommended: Shakespeare, *Julius Caesar* and *The Merchant of Venice*; Addison, *The Sir Roger de Coverley Papers*; Goldsmith, *The Deserted Village*; Scott, *Ivanhoe*; Hawthorne, *The House of the Seven Gables*; Irving, *Sketch Book*; Ruskin, *Sesame and Lilies*; Lowell, *The Vision of Sir Launfal*; Longfellow, *Courtship of Miles Standish*.

In addition to the above a thorough study of each of the works named below is required. The examination will be upon subject matter, form, and structure.

Shakespeare, *Macbeth*; Milton, *L'Allegro, Il Penseroso, and Comus*, or Tennyson, *Idylls of the King*; Burke, *Speech on Conciliation with America*, or Washington, *Farewell Address*, and Webster, *Bunker Hill Oration*; Macaulay, *Life of Johnson*, or Carlyle, *Essay on Burns*.

FOREIGN LANGUAGES—4 units. Latin grammar and composition; Cæsar, four books of the *Gullic 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. Candidates may substitute two units of science or one unit of science and one unit of advanced mathematics for two units of foreign language.

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.

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 19, 1932).

Conditioned Students

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

Admission to Advanced Standing

Students from other accredited colleges may enter Alfred 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 Ceramic Engineering is required to spend two summer periods of ten weeks each, 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. For each summer period one hour credit will be given.

With the approval of the director, which should be obtained not later than the close of the Sophomore year, a candidate for a degree may offer a thesis in some branch of ceramic research. The title of the thesis must be chosen before November 1st of the Senior year and a typewritten copy of the completed work must be deposited with the director not later than May 1st next following.

Graduation

Upon students who satisfactorily complete the course in Ceramic Engineering, Alfred University will confer the degree of Bachelor of Science (in Ceramic Engineering), and upon students who satisfactorily complete the course in Applied Art the degree of Bachelor of Science (in Applied Art).

COURSES OF STUDY

Course in Ceramic Engineering

First Semester		Second Semester	
Mathematics 1	5	Mathematics 1	5
Chemistry 1	4	Chemistry 1	4
English 1	3	English 1	3
Ceramics 1	1	Ceramics 1	1
Drafting	3	Drafting	3
Physical Training	1	Physical Training	1
Assembly	½	Assembly	½
	<hr/>		<hr/>
	17½		17½
Second Year			
First Semester		Second Semester	
Mathematics 3a	3	Mathematics 3b	3
Physics 1	5	Physics 1	5
Chemistry 2	4	Chemistry 3	4
Ceramics 2	3	Ceramics 2	3
Economics	2	Economics	2
Physical Training	1	Physical Training	1
Assembly	½	Assembly	½
	<hr/>		<hr/>
	18½		18½
Third Year			
First Semester		Second Semester	
Mechanics	3	Mechanics	3
Chemistry 6	3	Chemistry 6	3
Ceramic Engineering 1	3	Ceramic Engineering 1	3
Chemistry 4	3	Chemistry 5	3
Mineralogy	3	Geology	3
Elective	3	Elective	3
	<hr/>		<hr/>
	18		18
Fourth Year			
First Semester		Second Semester	
Ceramic Engineering 2	4	Ceramic Engineering 2	4
Physics 2	3	Power and Machinery	2
Power and Machinery	2	Professional English	2
Ceramic Calculations	2	Summer Practice	1
Summer Practice	1	Elective	9
Elective	6		
	<hr/>		<hr/>
	18		18

The elective is to be chosen, with the consent of the Director, from the following subjects: Assembly, four hours; Chemistry 7, six hours; German or French, twelve hours; Economics, twelve hours; Music, six hours; Surveying, four hours; Thesis, four hours; Woodshop, four hours; Architectural Drafting, three hours; Topographical Drawing, three hours; Auto Mechanics, two hours. Elements of Optical Mineralogy, four hours, (students having satisfactory index).

Courses in Applied Art

First Year

<i>First Semester</i>	<i>Second Semester</i>
Ceramic Chemistry 1	Ceramic Chemistry 1
Pottery 1 1	Pottery 1 1
Ceramics 1, Lecture and Laboratory 1	Ceramics 1, Lecture and Laboratory 1
Drawing 1a, Perspective 3	Drawing 1a, Perspective 3
Drawing 1b, Lettering 1	Drawing 1b, Lettering 1
Mechanical Drawing 2	Mechanical Drawing 2
Design 1 2	Design 1 2
English 1 3	English 1 3
Modern Language 3	Modern Language 3
Physical Training 1	Physical Training 1
Assembly ½	Assembly ½
<u>18½</u>	<u>18½</u>

Second Year

<i>First Semester</i>	<i>Second Semester</i>
Ceramics 2, Lecture 1	Ceramics 2, Lecture 1
Ceramic Laboratory 2	Pottery 2 2
Drawing 2 4	Drawing 2a, Life 2
	Drawing 2b, Pen and Ink ... 2
Design 2 2	Design 2 2
English 2 3	English 2 3
Modern Language 3	Modern Language 3
Elementary Psychology 2	Elementary Psychology 2
Physical Training 1	Physical Training 1
Assembly ½	Assembly ½
<u>18½</u>	<u>18½</u>

Third Year

<i>First Semester</i>	<i>Second Semester</i>
Pottery 3a 3	Pottery 3a 3
Pottery 3b 2	Metal Work 2
*Ceramics 3, Laboratory 2	*Ceramics 3, Laboratory 2
Drawing 3 2	Drawing 3 2
Design 3 2	Design 3 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
<u>19</u>	<u>19</u>

* In some cases Junior Methods will be substituted for Ceramics 3.

Fourth Year

<i>First Semester</i>	<i>Second Semester</i>
Pottery 4 3	Pottery 4 3
*Ceramics 4 2	*Ceramics 4 2
Weaving 1	Weaving 2
Woodworking 1	Special Methods in Drawing. 4
Practice Teaching 2	Design 4 2
Design 4 2	History of Art 2
History of Art 2	General Methods of Education 1
General Methods of Education 3	
<u>16</u>	<u>16</u>

* In some cases Drawing 4 will be substituted for Ceramics 4.

DEPARTMENTS OF INSTRUCTION

Description of Courses

CERAMIC TECHNOLOGY

Professor Binns
Professor Merritt

1. Lectures on the origin, properties, and uses of clays and other ceramic materials. Types of ware and methods of manufacture. Elementary glaze and body composition. History of Ceramics.

Laboratory practice in the operations involved in manufacture. The preparation and use of forms, molds, and dies. Making saggers, jiggering, pressing, and casting pottery. Making brick and tile. The general use of the machine equipment.

First year. One hour lecture and two hours laboratory. *One hour.*

2. Lectures on the occurrence, classification, and identification of clays. The manufacture of all classes of ceramic products. The theory and practice of drying and burning. The compounding of clay mixtures, and the production and use of glazes and colors. The glaze formula.

Laboratory practice in clay testing. The measurement of the physical properties of clays and the compounding of bodies and glazes. Kiln firing.

Second year. Two hours lecture and four hours laboratory. *Three hours.*

3. Laboratory practice for art students. The production of form by molding. The preparation of glazes for decorative pottery. Technical problems.

Third year. Four hours laboratory. *Two hours.*

4. Thesis in applied art.

Fourth year. Four hours laboratory. *Two hours.*

PROFESSIONAL ENGLISH

Professor Amberg

A course in the use of English in the Engineering profession. Technical descriptions and the writing of reports.

Fourth year. Two hours lecture and recitation. *Two hours. II.*

CERAMIC ENGINEERING

Professor Amberg
Professor Lobaugh

1. Lectures are given on the chemical, physical and mineralogical changes which take place in ceramic materials during their preparation, drying and burning. Plant practice in the manufacture of the various ceramic products is discussed.

Laboratory work consists of the production and testing of the wares discussed in the lecture work.

Third year. Ceramic Engineering 1. Two hours lecture and four hours laboratory. *Three hours.*

2. The occurrence, properties and uses of raw materials for bodies, glazes, glasses and enamels are studied. Whiteware, glaze, cement, and glass production and testing are discussed. The laboratory work is closely allied with the lecture work.

Fourth year. Ceramic Engineering 2. Two hours lecture and four hours laboratory. *Four hours. I.*

3. The production and testing of sheet steel and cast iron enamels and of refractories are discussed; dryer and kiln construction is studied; and the details of pyrometry are covered. The laboratory work is associated with the lecture work as in the case of Ceramic Engineering 1.

Fourth year. Ceramic Engineering 3. Two hours lecture and four hours laboratory. *Four hours. II.*

CERAMIC CALCULATIONS. The course covers the solution of problems involved in the production and testing of ceramic pro-

duets, also a brief study of the calculations necessary to derive quantitative information from phase diagrams. Lecture.

Prerequisite, Mathematics 6 or its equivalent. Fourth year. *Two hours. I.*

GEOLOGY AND MINERALOGY

Professor Amberg

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

Third year. Two hours lecture and one hour laboratory. *Three hours. I.*

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

Third year. Three hours lecture. *Three hours. II.*

ELEMENTS OF OPTICAL MINERALOGY. The course includes a study of the behavior of light in minerals as determined by the petrographic microscope and a laboratory course in the identification of ceramic and rock minerals by this means.

Two hours lecture, 1st semester; four hours laboratory, 2d semester. Prerequisite, Mineralogy and a scholarship requirement set by the Professor. Fourth year. *Two hours.*

POWER AND MACHINERY

The aim of this course is to familiarize the student with the installation, maintenance and repair of shop power and machinery. With this end in view, a study will be made of internal combustion engines, ceramic machinery and methods of power transmission. Under repair will come bearing removal, shaft straightening, belt lacing, valve grinding and such other operations as are necessary to the proper maintenance of a shop. Laboratory exercises will be carried on in which each student will be required to perform the different operations.

During the last half of the second semester a study of the Strength of Materials will be taken up. This will include elastic and ultimate strength, general properties, moments for beams and columns, torsion of shafts, elastic deformities, reinforced concrete, combined stresses, and resilience. *Two hours.*

CHEMISTRY

Professor Rice

Professor Cartelyou

A. ELEMENTARY CHEMISTRY. Required of all applied art freshmen. The principle object of the course is to give the student the opportunity to learn the language of chemistry. Simple chemical problems must be mastered. One lecture period each week. *One hour credit. I.*

B. CERAMIC CHEMISTRY. Required of all applied art freshmen. The chemistry of glazes will be the principle topic of discussion. Some of the more common phenomena met with in ceramic work will be interpreted from a chemical view point. One lecture period each week. *One hour credit. II.*

1. INORGANIC CHEMISTRY. The fundamental principles of chemistry are taught by a systematic study of the non-metallic elements during the first semester, followed by a broadening of the student's knowledge by study of the metallic elements during the second half of the year. The laboratory work, in which the student is expected to demonstrate facts and principles for himself, follows closely upon class room discussion. Lectures and recitations, three periods; laboratory, two periods. Textbook, Deming, *General Chemistry.* *Four hours.*

2. QUALITATIVE ANALYSIS. The purpose of this course is not, primarily, to teach the student to make analyses: it is intended, in the classroom, to give a further and more thorough training in the fundamentals of chemistry and in the laboratory

to acquire a better technique in the handling of apparatus and materials and to learn the chemistry of the metals. The writing of equations and the solution of problems are emphasized. Simple salts and mixtures are issued for analysis. Prerequisite, Chemistry 1. *Four hours. I.*

3. QUANTITATIVE ANALYSIS. This course is devoted to volumetric and elementary gravimetric analysis. In the laboratory emphasis is placed upon integrity, accuracy and the development of a good analytical technique. In the classroom the principles of stoichiometry, law of mass action, solubility product, etc., are covered. Numerous problems are assigned. Lectures and recitations, one period; laboratory, three periods. Text book, Popoff, *Quantitative Analysis*. Prerequisite Chemistry 2. *Four hours. II.*

4. QUANTITATIVE ANALYSIS. This is an advanced course, covering the analysis of silicate rocks, clays, etc. Lectures and recitations, one period; laboratory two periods. Textbook, Washington, *The Chemical Analysis of Rocks*. Prerequisite, Chemistry 3. *Three hours. I.*

5. FUELS AND COMBUSTION. The analysis of solid, liquid and gaseous fuels and their products of combustion is discussed in the class room and carried out in the laboratory. Industrial Stoichiometry, covering combustion calculations on furnaces and kilns, heat losses, etc., is included in the course. Lectures and recitations, two periods; laboratory, one period. Textbooks, Parr, *Fuel, Gas, Water and Lubricants*; Hougen and Watson, *Industrial Chemical Calculations*. Prerequisite, Chemistry 3. *Three hours. II.*

6. PHYSICAL CHEMISTRY. The characteristics of chemical substances which determine their properties and reactions, such as the pressure-volume relations of gases, the properties of solutions, the equilibria and rate of chemical changes, heterogeneous equilibrium in terms of the phase rule, thermo-chemistry and colloidal chemistry are considered in this course. The

student is required to solve a large number of problems pertaining to the subjects discussed. Prerequisite, Chemistry 3, Mathematics 3a and 3b and Physics 1a and 1b. *Three hours.*

Glass Technology

Courses in Glass Technology will be offered with the opening of the college year 1932-1933. Full particulars in regard to these courses may be had on application after July 1st, 1932. Students interested in this subject should write for announcements after that date.

APPLIED ART

Professor Fosdick

Professor Nelson

Professor Harder

Miss Hewitt

Although pottery is the craft in which the school offers exceptional facilities, additional courses in the crafts of metal work and decorative textiles are offered with the view of giving the student discrimination in the selection and use of materials. This provides graduates with sufficient background to enable them to qualify as teachers of general crafts.

Work in the Department of Applied Art is supplemented by those academic subjects necessary to obtain the Teachers' Provisional Certificate for Drawing and Design in New York State.

Pottery

Pottery 1, 2, 3, 4, cover methods of production of pottery including, building, the potter's wheel, mold construction with intensive design stressing the individuality of each method. The structure of glazes and a wide range of decorative processes are included.

The Department is fully equipped for ceramic research. This includes kilns of various construction and temperature range burning gas, kerosene with forced draft, and electricity.

Pottery 3b covers the production of tiles with reference to their various architectural applications.

Drawing

DRAWING 1a. Freehand perspective. A thorough course in the fundamentals of freehand drawing, including principles

of perspective, pencil technique, still life drawing in accented line and in light and shade, elementary composition, and outdoor sketching.

DRAWING 1b. Lettering and commercial art.

DRAWING 2. Still Life in Charcoal.

DRAWING 2a. Figure Study.

DRAWING 2b. Composition and pen and ink.

DRAWING 3. Free and decorative treatment of water color technique in the studio and out of doors.

DRAWING 4. Special methods and practice teaching. Prerequisites: drawing and design 1, 2, 3, elementary psychology, mechanical drawing, educational psychology, principles of education. A course in the teaching and supervising of art in public schools. Practice teaching in local schools, one hour each week. Term paper.

Design

DESIGN 1. Study of the elements of structural design in relation to the nature and purpose of materials used in the crafts, such as wood, metal, woven fabrics, clay and glass. Lectures and required reading from historical sources and current magazines. Nature study for appreciation of structural line and form. Emphasis in the first year is placed on the possibility and limitations of materials used in the decorative crafts rather than on pattern as such.

DESIGN 2. Development of related pattern for the decorative crafts. Color study including theory of color.

DESIGN 3. Dyeing, block printing, weaving, stitchery. Designing and execution in several of the above mentioned techniques, table-cloths appropriate for formal and informal use collaborating with ceramic design.

DESIGN 4. Thesis in Design—emphasizing in detail one of the decorative crafts.

Methods of Teaching Art

The Senior course in special methods of Teaching Art includes a study in organizing an art curriculum; one hour practice teaching per week in the local schools; and 10 hours observation in other schools.

Weaving

The course in weaving covers the use of looms in secondary and high schools. Four heddle looms are set up and thoroughly studied. Pattern weaving and originating of patterns, and the construction of simple looms are included.

Metal Working

The course in metal working includes both hammered and constructed work. A correlation between the pottery and metal work is effected by making metal fittings as for lamps and teapots. Simple pieces of jewelry teach stone setting and other fundamental processes. The course fits a student for camp, institutional and secondary school teaching.

History of Art

A survey of the fine arts and crafts through the ages. Text book, *Art Through the Ages*, Helen Gardner.

DEPARTMENT OF INVESTIGATION AND RESEARCH

Clay Testing

Professor Binns
Professor Amberg
Professor Merritt

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 necessary 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 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.

Industrial Problems

Professor Binns

Professor Amberg

Professor Merritt

The problems incidental to the manufacture of clay wares are regularly investigated at the school. Manufacturers are invited to present questions for study. Persons resident within the State are entitled to reasonable services without charge.

DEGREES CONFERRED

June 10, 1931

Bachelor of Science in Ceramic Engineering

Earl Everett Beeton	East Rochester
Albert Stokes Brown	Kenmore
Eugene Edward Bryant	Macedon
Edward Hassel Cauger	Lackawanna
William Lewis Clarke	Niagara Falls
Henry William Ellison	Waverly
John Lyman Gallup	Canaan
Charles Louis Gilder	Dansville
Gerard Johnston Jaquiss	Floral Park
Roscoe Watson Keller	Kenmore
LaVerne Allen Messlmer	Manchester
Thurlow Talbot Travis	Hornell

Bachelor of Science in Applied Art

Mary Brown Allen	Alfred
Luke Frederick Beckerman	Chicago, Ill.
Katherine LaRouette Chamberlain	Angelica
Myrtle Anne Klem	Hamilton
Roberta Naomi Lober	West Nyack
Marian Winifred Love	Cuba
Margaret Covert Lyon	Elmira
Theresa Marie Antoniette Manieri	Salamanca
Ruth Irene Marley	Hornell
Pauline Mercla Martin	Jamestown
Ada Eudora Perry	Jordan
Marjorie Frances Phelps	Granville
Avis Stortz	Warsaw
Alfred Alberti Titsworth	Alfred
Virginia Deems Wallm	Hornell
*Emil George Zschlegner	Wellsville

* As of the class of 1930

Bachelor of Science in Ceramics

George Wesley Hill	Pittsford
Harry Nelson Sackett	Bolivar

HONORS

Seniors

Highest Honors

John Lyman Gallup

Honors

Mary Brown Allen
Luke Frederick Beckerman

Departmental Honors

Mary Brown Allen	In Applied Art
Luke Frederick Beckerman	In Applied Art
Albert Stokes Brown	In Ceramic Engineering
Eugene Edward Bryant	In Ceramic Engineering and in Chemistry
John Lyman Gallup	In Ceramic Engineering, in Chemistry and in Physics
Theresa Marie Antoniette Manfieri	In Applied Art
Myrtle Anne Klem	In Applied Art

Juniors

Meredith Barton

Sophomores

Donald Ralph Goetchius

Freshmen

Elsie Ferrar Bonnet	Adolph Gottfried Reltz
Helga Evelina Ottilia Larson	Theodore Roosevelt TenBroeck
Lewis Donald Morris	Walter Ivan Tolbert
Vincent Eldridge Wessels	

REGISTRATION OF STUDENTS 1931-32

SENIORS

NAME	RESIDENCE	COURSE
Barton, Meredith	Emporium, Pa.	Eng.
Bender, Mirlam Lewis	Pleasantville	Art
Blawat, Michael Frank	Alfred	Eng.
Burrows, Marion Alene	Friendship	Art
DeLaney, Sidney Reed	Williamsport, Pa.	Eng.
Flint, Robert Leon	Hornell	Eng.
Fuller, William Cooper	Palatine Bridge	Eng.
Gagliano, Francis William	Valley Stream	Eng.
Gaulrapp, Richard Alfred	Queens Village	Eng.
Gilleran, George Thomas	Hornell	Eng.
Green, Wilbur Fisk	Horseheads	Eng.
Harwood, Lyman See	Lockport	Eng.
Heard, Marian Gladys	Staten Island	Art
Hillmiller, John Karl	Salamanca	Eng.
Huffent, Harold Winters	Union Springs	Eng.
Lockwood, Mervin Dale	Portland Mills, Pa.	Eng.
McLean, Wilma Christine	Hempstead	Art
Maroney, Paul Anthony	Salamanca	Art
Martin, Pauline	Alfred	Art
Mitchell, Ruth Lois	Hornell	Art
Mott, Hazel Evelyn	Mount Kisco	Art
Nobbs, Robert Charles	Eden	Eng.
Post, Helen Margaret	Bloomfield, N. J.	Art
Rogers, Elizabeth Louise	Daytona Beach, Fla.	Art
Schlehr, Walter Raymond	Cleveland, Ohio	Eng.
Shremp, Raymond Maxwell	Rochester, Pa.	Eng.
Suitgrod, Frieda Edith	Cedarhurst Park	Art
Smith, Bernadine Frances	Alfred	Art
Whitfield, Anne Morehead	Richmond, Va.	Art

† Work completed in Summer School

JUNIORS

NAME	RESIDENCE	COURSE
Armstrong, Elnora Maxine	Alfred	Art
Breeman, Jr., Leonard	Alfred	Eng.
Colgrove, Marcia Elizabeth	Hornell	Art
Crandall, Eugene Rogers	Alfred	Eng.
Dickens, Donald Applehes	Elmira Heights	Eng.
Goetchius, Donald Ralph	Queens Village	Eng.
Hammann, Jr., Karl Mutchler	Jamaica	Eng.
Jenks, Olive Chamberlin	Newtonville, Mass.	Art
Klinger, Ralfe Weisel	Wichita, Kans.	Eng.
Lathrop, Kathryn Josephine	Angelica	Art
Marley, Doris Elaine	Hornell	Art
Merck, Walter John	Yonkers	Eng.
Muller, Frederick Wentworth	Bellerose	Eng.

NAME	RESIDENCE	COURSE
Ostrander, Van Rensselaer	Olean	Eng.
Parmalee, Vivian Hope	Oneida	Art
Razey, Robert Martin	Hornell	Eng.
Reynolds, Owen Joseph	Addison	Eng.
Robinson, Ruby Donna	Andover	Art
Rowley, Robert Warner	Jamestown	Eng.
Smith, Wilma Myrtle	Cuba	Art
Towner, Joseph Benjamin	Hornell	Eng.
Watts, Hazel Almeda	Pine City	Art

SOPHOMORES

NAME	RESIDENCE	COURSE
Arwine, Alva Stewart	Hornell	Eng.
Aschman, Elsie Eva	New York City	Art
Bakker, Lammechiena	Plainfield, N. J.	Art
Bastow, Edna Margaret	Dobbs Ferry	Art
Bentley, Francis Northrup	White Plains	Art
Bidwell, Joseph Norton	Friendship	Eng.
Bonnet, Elsie Ferrar	Ridley Park, N. J.	Art
Burdick, Gerald Frederick	Little Genesee	Eng.
Cibella, Rosario Casimir	Rochester	Eng.
Davis, Earl Kiltner	Rushford	Eng.
Deegan, Joseph Eugene	Elmira	Eng.
Dowey, Benjamin Franklin	Wellsville	Eng.
Eaton, Dorothy Baldwin	Syracuse	Art
Eaton, Dorothy Helen	Oneida	Art
Fowler, William Mansfield	Savannah	Eng.
Gregory, Glenn Albert	Skaneateles	Eng.
Hall, Elsie Mae	Buffalo	Art
Hawk, Mary Janet	Kittanning, Pa.	Art
Henry, Lester Max	Hornell	Eng.
Holstein, Seymour Schuyler	New York City	Eng.
House, Dorothy Ruth	Chester	Art
Jaquiss, Harry Mason	Floral Park	Eng.
Kilburn, Theola Evelyn	Little Valley	Art
Kingsley, William Paul	Newburgh	Eng.
Kuenn, William Whitney	Franklinville	Eng.
Larson, Helga Evelina Ottilia	Keeseville	Art
Leach, Kenneth Hugh	Elmira	Eng.
Leach, Marjory Phyllis	Whitesville	Art
Morris, Lewis Donald	Coneus	Eng.
Olmsted, Marjorie	Waverly	Art
Olney, Mary Rightmire	Waverly	Art
Pelone, Anthony Joseph	Elmira	Eng.
Reitz, Adolph Gottfried	Bolivar	Eng.
Ricker, Richard Wilson	Gallion, Ohio	Eng.
Simpson, Paul Thurston	Friendship	Eng.
Smathers, Helen Louise	Bradford, Pa.	Art
Stillman, Winifred Elizabeth	Alfred	Art
TenBroeck, Theodore Roosevelt	Newburgh	Eng.
Taft, Robert James	Hornell	Eng.

NAME	RESIDENCE	COURSE
Tolbert, Walter Ivan	Elmira	Eng.
Train, Mary Stillwell	Savannah, Ga.	Art
Turner, Cornelius Francis	Newburgh	Eng.
Vincent, Jennie Louise	Alfred	Art
Walton, Mirlam Helene	Canastota	Art
Wessels, Vincent Eldridge	Avoca	Eng.
Weston, Vera Mildred	Niagara Falls	Art
Wheeling, Hobart Ferdinand	Pittsburgh, Pa.	Eng.
Young, Albert Vincent	Buffalo	Eng.

FRESHMEN

NAME	RESIDENCE	COURSE
Adessa, Phillip Patrick	Cortland	Eng.
Armant, Marjorie Lala	Johnson City	Art
Bailey, Lucille Cushing	Olean	Art
Bassett, Harold Sheffield	Alfred	Eng.
Bertini, Americo	Cortland	Eng.
Blanchford, Henry Elmslie	Richmond Hill	Eng.
Boylan, Glen	Hornell	Eng.
Burch, Roscoe Clifton	Cambridge	Eng.
Butler, Max Eugene Hawley	Elmira Heights	Eng.
Butler, William Francis	Troy	Eng.
Bulton, Lowell Whitford	Wellsville	Eng.
Carey, James Shelden	Bath	Art
Clark, Robert Ropor	Valley Stream	Eng.
Cohen, Rudolf Donald	Brooklyn	Eng.
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.
Donnelly, Thomas Leighton	Waterloo	Eng.
Douglass, Frances Millicent	Brooklyn	Art
Emery, Mary Josephine	Beacon	Art
Fedor, Andrew Joseph	Franklin, N. J.	Eng.
Firestone, Arthur George	Warsaw	Eng.
Footo, Robert Frederick	Hollis	Eng.
Galchinsky, Hyman	Brooklyn	Eng.
Galchinsky, Hyman Bernard	Brooklyn	Eng.
Garellick, Irving Irwin	Spring Valley	Eng.
Gillespie, Elizabeth Bond	New Haven, Conn	Art
Greene, Kenneth Titsworth	Alfred	Eng.
Grow, Georgia Christine	Avon	Art
Gulliver, Glenn Rensselaer	Hornell	Eng.
Hanson, Arvid Holger	Corning	Eng.
Hawkes, William Stuart	Manchester	Eng.
Henderson, Bethel Mary	Hornell	Art
Hillwig, William Alonza	Olean	Eng.
Jaya, Michael Joseph	Mineville	Eng.
John, Dennison E.	Gowanda	Eng.

NAME	RESIDENCE	COURSE
Johnson, Kathleen Sara	Hornell	Art
Johnson, Virgil Lovillo	Friendship	Eng.
Kazukevich, Joseph Peter	New York City	Eng.
Knapp, James Louis	Avoca	Eng.
Kohn, Lester Peter	Brooklyn	Eng.
Kornhiser, William	Franklin, N. J.	Eng.
Landis, Mildred Miller	Alfred	Art
Lloyd, Margaret Ethel	Olean	Art
McLean, John Roderick	Hempstead	Eng.
Marzello, Emmott Richard	Troy	Eng.
Meagher, Fred Lawrence	Clearfield, Pa.	Art
Messimer, Jane Elizabeth	Elmira	Art
Militello, Louis Sam	Silver Creek	Eng.
Mitchell, Henry Edward Moore	White Plains	Eng.
Newton, Jr., Jesse Cline	Homer	Eng.
Northrup, Ralph Preston	Addison	Eng.
Oleson, Harry Pilgaard	Troy	Eng.
Olsen, Howard Henry	Queens Village	Eng.
Osiakowski, Walter Michael	Perry	Eng.
Parmele, Dorothy Elizabeth	Newburgh	Art
Partridge, Josephine Pomeroy	Ridley Park, Pa.	Art
Perkins, Edward Floyd	Salamanca	Eng.
Reimer, John Joseph	Hamburg	Eng.
Riley, Charles Phillip	Hornell	Eng.
Sarandria, Joseph Anthony	West New York, N. J.	Eng.
Seilken, Morton	Edgemere	Eng.
Smigrod, Gilbert	Cedarhurst Park	Eng.
Smith, Frank Lynn	Cuba	Art
Stephens, Paul Daniel	Canisteo	Eng.
Toomajian, Charles Richard	Troy	Eng.
Townsend, Leslie Winfield	Salamanca	Eng.
Warner, Madillene Davis	Syracuse	Art
Welch, William William	Rochester	Eng.
Whaley, Arthur Hammond	Patchogue	Eng.
Whitford, Clinton Sherman	Alfred Station	Eng.

SPECIALS

Hopkins, Carl Crandall	Almond	Eng.
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SUMMER SESSION 1931

NAME	RESIDENCE
Allen, Mary Brown	Alfred
Borst, Sylvia	Seattle, Washington
Charman, Laura B.	Magnolia, N. J.
Corrigan, Margaret Estelle	Wellsville
Dole, Esther M.	Chestertown, Md.
French, Beals E. L.	Chicago, Ill.
French, Myrtle M.	Chicago, Ill.
Howe, Sarah Elizabeth	Bloomfield, N. J.

NAME	RESIDENCE	SUMMARY		
NAME	RESIDENCE	Art	Engineering	Total
Howell, Josephine Richardson	Philadelphia, Pa.			
Hyatt, Drew	Moorestown, N. J.			
Johausen, Waldemar Wilhelm Anton	Alfred			
Le Benf, Jeanne Louise	New Orleans, La.			
Lacy, Kate	Indiana, Pa.			
Loring, Nellie Avery	Norwich, Conn.			
McNeily, Frances P.	Schenectady			
Morse, Howard K.	Chicago, Ill.			
Mulloy, Dorothy S.	Pittsburgh, Pa.			
Munroe, Helen Barnard	Longmeadow, Mass.			
Perkins, Ernest H.	Richmond, Va.			
Perkins, Nellie W.	Richmond, Va.			
Post, Helen Margaret	Bloomfield, N. J.			
Ricker, Mayme A.	Galion, Ohio			
Saunders, Milderena L.	Belmont			
Stover, Helen B.	Trenton, N. J.			
Warren, Frank A., Jr.	New York City			
Williams, Eleanor Churchill	Milford, Conn.			
Wilmott, John N.	Garden City			
Wood, Julia	Alfred			
SUMMARY				
		Art	Engineering	Total
Seniors		11	14	25
Juniors		9	13	22
Sophomores		21	27	48
Freshmen		19	54	73
Specials			1	
Total in Regular Session		60	108	168
Total in Summer Session				28
Totals		60	108	196



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