THE NEW YORK STATE SCHOOL of

CLAY WORKING AND CERAMICS

AT

ALFRED UNIVERSITY ALFRED, N.Y.

1930 - 1931

ALFRED UNIVERSITY PUBLICATION

New York State School of 'Clay' Working and Ceramics

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February, 1931

No. 2

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COLLEGE CALENDAR

First Semester, 1930-1931

| | | 1 | 930 |
|---|---------------------------------------|---------------|----------|
| Entrance examinations | Monday | Sept. | 15 |
| "Freshman Week" | Tues, and Wed. | Sept. 16 | -17 |
| Registration for Seniors, | , , , , , , , , , , , , , , , , , , , | | |
| Juniors, and Sophomores | Thurs, and Pci | Sept. 18 | |
| Instruction begins | Monday | Sept. Nov. | 22 20 |
| Mid Semester grades | Thursday | Nov. | 27 |
| Thanksgiving Day, holiday | Thursday | | |
| Founders' Day | Friday | Dec. | 5 |
| Christmas Recess begins | Thursday evening | Dec. | 18 |
| CHRISTMAS RECESS | | 1 | 931 |
| Instruction resumed | Tuesday morning | Jan. | 6 |
| Mid-year examinations begin | Friday | Jan. | 23 |
| Examinations end; semester ends | Friday evening | Jau. | 30 |
| Second Se | mester | | |
| Instruction begins | Wednesday morning | Feb. | -1 |
| Mid-semester grades | Thursday | Mar. | 26 |
| Easter Recess begins | Thursday evening | April | - 22 |
| Easter Recess | ,, | | |
| Instruction resumed | Monday morning | April | 13 |
| Final examinations begin | Fridas | May | 29 |
| Memorial Day | Saturday | May | 30 |
| · · | Tuesday | June | 2 |
| Senior examinations end | Friday | June | 5 |
| Under-class examinations end | Tuesday | June | 9 |
| Junior examinations end | Tuesday | 411116 | i, |
| NINETY-FIETH COMMENCEMENT | Saturday evening | annL | ß |
| Annual Concert | Saturday evening | attice | |
| Aunual Sermon before Christian Associations | Sunday morning | June | 7 |
| Baccalaurente Sermon | Sunday evening | June | 7 |
| Alumni Association Directors' meeting | Monday afternoon | June | 8 |
| Commencement Play | Monday evening | June | 8 |
| Class breakfasts and reunions | Tuesday morning | June | 9 |
| Annual meeting of Trustees | Tuesday morning | June | 9 |
| Annual meeting of Corporation | Tuesday afternoon | June | 9 |
| Class-day Exercises | Tuesday afternoon | June | a |
| | Tuesday evening | June | 9 |
| Alumni Banquet | Wednesday morning | June | 10 |
| Commencement Exercises | Wednesday afternoon | June | 10 |
| Alumni Association, Public Session | Wednesday evening | June | 10 |
| President's Reception Summer Vacation | wednesday evening | 311111- | 1,,, |
| Summer Ses | sion, 1931 | | |
| Term begins | Monday | July | 6 |
| Term pegins Term ends | Friday | Aug. | 1.4 |
| eveni unus | E TIMES | and the bear | |

| Term | begins | Monday | July | 6 |
|------|--------|--------|------|----|
| Term | ends | Friday | Aug. | 14 |

First Semester, 1931-1932

| rust demester | , 1991-1902 | | |
|---|---------------------|--------------|----------|
| | | 1 | 931 |
| Entrance examinations | Monday | Sept. | 21 |
| "Freshman Week" | Tues, and Wed. | Sept. 22 | 23 |
| Registration for Seniors, Juniors, and Sophomores | Thurs, and Fri. | Sept. 24 | 1 25 |
| Instruction begins | Monday | Sept. | 28 |
| Mid semester grades | Thursday | Nov. | 19 |
| Thanksgiving Day, holiday | Thursday | Nov. | 26 |
| Founders' Day | Saturday | Dec. | 5 |
| Christmas Recess begins | Thursday evening | Dec. | 17 |
| CHRISTMAS RECESS | | 193 | 2 |
| Instruction resumed | Tuesday morning | Jan. | .5 |
| Mid year examinations begin | Friday | Jan. | 29 |
| Examinations end; semester ends | Friday evening | Feb. | ., |
| | | | |
| Second Se | mester | | |
| Instruction begins | Wednesday morning | Feb. | 10 |
| Mid semester grades | Thursday | Mar. | 24 |
| Enster Recess begins Easter Recess | Thursday evening | Mar. | 24 |
| Instruction resumed | Monday morning | April | -\$ |
| 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 | 1-1 |
| NINETY-SIXTH COMMENCEMENT | | | |
| Commencement Play | Saturday evening | June | 11 |
| Annual Sermon before Christian | | | |
| Associations | Sunday morning | June | 12 |
| Baccalaureate Scrmon | Sunday evening | June | 12 |
| Alumni Association Directors' meeting | Monday afternoon | June | 13 |
| Annual Concert | Monday evening | June | 13 |
| Class breakfasts and reunions | Tursday morning | June | 14 |
| Annual meeting of Trustees | Tuesday morning | June | 1-1 |
| Annual meeting of Corporation | Tuesday afternoon | June | 14 |
| Class day Exercises | Tuesday afternoon | June | 1-1 |
| Alumni Banquet | Tuesday evening | June | 14 |
| Commencement Exercises | Wednesday morning | June | 15 |
| Alumni Association, Public Session President's Reception | Wednesday afternoon | June June | 15 15 |
| Summer Vacation | Wednesday evening | June | 1., |
| SUMMER CACATION | | | |
| Summer Sess | sion, 1932 | | |
| Term begins | Tuesday | July | 5 |
| Term ends | Friday | Ang. | 12 |
| | | | |

OFFICERS OF INSTRUCTION

BOOTHE COLWELL DAVIS, Ph. D., D. D., LL. D., President Professor of Ethics.

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

Department of Ceramic Engineering

Charles R. Amberg, M. S.
Professor of Ceramic Engineering.

Murray J. Rice, A. M., Ph. D. Professor of Chemistry.

CLARENCE W. MERRITT, S. B.
Associate Professor of Ceramics.

Warren P. Cortelyou, B. S.
Assistant Professor of Chemistry.

Department of Applied Art

Marion L. Fosdick Professor of Ceramie Art,

CLARA K. NELSON
Professor of Drawing and Design.

CHARLES M. HARDER
Assistant Professor of Drawing and Ceramic Art.

Erma B. Hewitt Instructor in Metal Work

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RUTH DARE WHITFORD Secretary.

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John K. Hillmiller Assistant.

A. L. WHITFORD

Janitor and Machinist.

Student Assistants

Ceramic Engineering
John L. Gallup

Applied Art

Dorothy Hallock, Graduate Assistant

Alfred A. Titsworth

Ceramic Chemistry

Albert S. Brown

Owen J. Reynolds

Earl K. Davis

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 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 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 and technology. The building will be 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 shap-

ing 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

Regular attendance at class exercises is required. Absences per semester from class not to exceed the following numbers may be permitted; in a one hour credit course, 2 absences; in a two hour credit course, 3; in a three hour credit course, 5; in a four hour credit course, 6; and in a five hour credit course, 7. Excused absences shall count as one-half of an absence. Two tardies shall count as one absence. Penalties for excess absences and exceptions from penalties on account of good scholarship may be found in the complete set of regulations on absences which is printed in the student Hand-book (published each year).

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 "College 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 minumum 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 (Fiat Lux), 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 | 15 | 00 |
| Chemistry 4 | 15 | 00 |
| Drafting | 2 | 00 |
| Gymnasium (freshmen, sophomores) | 2 | 00 |
| Physics 1b, 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, per year | | 00 |
| Room deposit, at Burdick Hall, per year | | 00 |
| Room deposit, at Ladies Hall, 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 regis- tration days, and all students who are absent from all | | |
| classes on the first day of a semester) | 5 | 00 |
| | | |

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 in private families 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 |
|--------|--------|------|--------|-----|------|------|-------------|-----------------------|--------------|
| | | | | | | | | | . 60 110 |
| Laund | ry . | | | | | | • • • • • • | | . 20 30 |
| Books | | | | | | | | | . 25- 35 |
| Class | dues, | etc. | | | | | | | . 10— 25 |
| , | Total | for | year | | | | | | \$290-\$400 |

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 *Gallic War*; Cicero, six orations; Virgil, six books of the *Acneid* 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 uni | its |
|-------------------|-------|-----|
| Mathematics | 2 uni | its |
| Foreign languages | 4 uni | its |
| Science | 1 uni | it |
| Elective | 5 uni | its |

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.

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 21, 1931).

Conditioned Students

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

Admission to Advanced Standing

Students from other colleges having a course equivalent to that of Alfred may enter at the point from which they take dismissal, 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:

- I. 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 Ceranic 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 acramic 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 Year

| FIRST | rear |
|---|---|
| First Semester Mathematics 1 5 Chemistry 1 4 English 1 3 Ceramics 1 1 | Second Semester Mathematics 1 |
| Drafting 3 Physical Training 1 Assembly ½ | Drafting Physical Training Assembly ½ |
| 17% | 171/2 |
| Second | |
| First Semester Mathematics 3a 3 Physics 1 5 Chemistry 2 4 Ceramics 2 3 Fronomics 2 Physical Training 1 Assembly ½ | Record Semester Mathematics 3b Physics 1 Chemistry 3 Ceramics 2 Economics 2 Physical Training 1 Assembly 1/2 |
| 181/6 | 181/2 |
| Third | |
| First Semester | annual as a summer of specimen and a second to assume a second |
| Mechanics 3 Chemistry 6 3 Ceramic Engineering 1 3 Chemistry 4 3 Mineralogy 3 Elective 3 | Second Nemester Mechanics Chemistry 6 Ceramic Engineering I Chemistry 5 Geology Elective |
| 18 | 18 |
| Fourth | |
| First Semester Ceramic Engineering 2 4 Physics 2 3 Power and Machinery 2 Ceramic Calculations 2 Summer Practice 1 Elective 6 | Second Semester Ceramic Engineering 2 4 Power and Machinery 2 Professional English 2 Summer Practice 5 Elective 9 |
| 18 | 18 |
| | h the consent of the Director, from |

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. Elements of Optical Mineralogy, four hours, (students having satisfactory index).

Courses in Applied Art

First Year

| First Semester | Second Semester |
|--|--|
| Ceramic Chemistry 1 Pottery 1 1 Ceramics 1, Lecture and 1 Laboratory 1 Drawing 1a, Perspective 3 | Ceramic Chemistry 1 Pottery 1 1 Ceramics 1, Lecture and 1 Laboratory 1 Drawing 1a, Perspective 3 |
| Drawing 1b, Lettering 1 Mechanical Drawing 2 Design 1 2 English 1 3 Modern Language 3 Physical Training 1 Assembly ½ | Drawing 1b, Lettering 1 Mechanical Drawing 2 Design 1 2 English 1 3 Modern Language 3 Physical Training 1 Assembly 1/2 |
| 18½ | 181/2 |

Second Year

| First Semester | Second Semester |
|--|--|
| Ceramics 2, Lecture 1 Ceramic Laboratory 2 Drawing 2 4 Design 2 2 English 2 3 Modern Language 3 Elementary Psychology 2 Physical Training 1 Assembly ½ | Ceramics 2, Lecture 1 Pottery 2 2 Drawing 2a, Life 2 Drawing 2b, Pen and Ink 2 Design 2 2 English 2 3 Modern Language 3 Elementary Psychology 2 Physical Training 1 Assembly ½ |
| 181/2 | 181/2 |

Third Year

| First Semester | ******* | Second Semester | - |
|---|---------------|---|---------------|
| Pottery 3a | | Pottery 3a | 3 |
| *Ceramics 3, Laboratory | $\frac{2}{2}$ | Metal Work | $\frac{2}{2}$ |
| Drawing 3 Design 3 | $\frac{2}{2}$ | Drawing 3 Design 3 | 2 2 |
| Educational Psychology History of Western Europe. | 3 | Principles of Education History of Western Europe. | |
| History of Education | | History of Education | 2 |
| | 19 | | 1 9 |

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

Fourth Year

| | * 000 FTT 81 | | |
|--|---|--|-----------------------|
| First Semester | 1 | Second Semester | |
| Pottery 4 *Ceramics 4 Weaving Woodworking Practice Teaching Design 4 History of Art General Methods of Education | 2 *Ceran 1 Weavin 1 Special 2 Design 2 Histor 2 Genera Educ | Methods in Drawing. 4 y of Art Il Methods of eation | 2 4 2 2 2 |
| | 16 | | 16 |

^{*}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 easting 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

1. Lectures are given on the chemical, physical, and mineralogical changes which take place in clays, bodies, and glazes during their preparation, drying and burning. Details of different types of plants, such as brick, pottery, refractories, etc., are discussed.

Laboratory practice includes the testing of clays and other ceramic materials and the production of bodies, glazes, and completed wares.

Third year. Two hours lecture and four hours laboratory. Three hours.

2. The theory and practice of methods employed in enameting cast iron and steel. Laboratory exercises in production.

The making, calibration and use of various instruments; pyrometers, gauges and testing apparatus.

Fourth year. Two hours lecture and recitation and four nours laboratory. Four hours. I.

3. The application of general engineering principles to the ceramic industry. The topics studied include refractories, glass, lime, plasters and cements; drying, heat reactions and kiln construction.

The laboratory work consists of methods of testing and, so far as possible, methods of production.

Fourth year. Two hours lecture and recitation and four hours laboratory. Four hours. II.

MINERALOGY. This course includes an introduction to crystallography, microscopic mineralogy and the identification of minerals and rocks by inspection and simple tests.

Third year. Two hours lecture and one hour laboratory. Three hours. I_{\bullet}

GEOLOGY. A course in general geology especially arranged for the ceramic engineer. It deals with the development and the features of the earth's surface, with special reference to the geology of ceramic materials.

Third year. Three hours lecture and recitation. Three hours. H_{γ}

CERAMIC CALCULATIONS

Professor Amberg

Solution of chemical and physical problems involved in compounding ceramic mixtures including wet blending, and slip corrections. The solving of every day factory problems occurring in the manufacture of clay wares. Lecture and recitations.

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

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 clastic 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 Cortelyou

- 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. 1.
- B. Geramic 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 I. Four hours. I.
- 3. QUANTITATIVE ANALYSIS. This course is devoted to volumetric and elementary gravimetric analysis. In the lab-

oratory 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. Textbooks, Fales, Inorganic Quantitative Analysis; Hillebrand, The Analysis of Silicate and Carbonate 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; Lewis and Radasch, Industrial Stoichiometry. 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.

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 ineluding, 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 kilus 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 cur rent 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 cirriculum; one hour prac-

tice 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 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 elay.
- (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 elay, 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.

REGISTRATION OF STUDENTS 1930-1931

SENIORS

| 3743677 | | |
|-----------------------------------|--|------|
| NAME | RESIDENCE | |
| Allen, Mary Brown | Alfred | Art |
| Beckerman, Luke Frederick | Chicago, Ill | Art. |
| Beeton, Earl Everett | East Rochester | Eng. |
| Brown, Albert Stokes | Kenmore | |
| Bryant, Eugene Edward | Macedon | Eng |
| Cauger, Edward Hassel | Lackawanna | Eng. |
| Chamberlain, Katherine LaRouette | Angelica | |
| Clarke, William Lewis | Niagara Falls | |
| Ellison, Henry William | Waverly | Eng |
| Gallup, John Lyman | Canaan | Eng. |
| *Gilder, Charles Louis | Dansville | Eng. |
| Gilleran, George Thomas | Hornell | Eng |
| Hill George Wesley | Pittsford | |
| Jaquiss, Gerard Johnston | Floral Park | Ens: |
| Reller, Roscoe Watson | Kenmore | |
| Klem, Myrtle Anne | Hamilton | |
| Leber, Roberta Naomi | West Nyack | |
| Love, Marion Winifred | Cuba | |
| Lyon, Margaret Covert | Elmira | |
| Manieri, Theresa Marie Antoniette | Salamanca | |
| Marley, Ruth Irene | Hornell | |
| Martin, Paulina Mercia | Jamestown | |
| Messimer, LaVerne Allen | Manchester | |
| Perry, Ada Eudora | Jordan | |
| Phelps, Marjorie Frances | Granville | |
| Sackett, Harry Nelson | Bolivar | Eng |
| Stortz, Avis | Warsaw | |
| Titsworth, Alfred Alberti | Alfred | |
| Travis, Thurlow Talbot | Hornell | |
| Wallm Virginia Deems | Hornell | |
| †Zschiegner, Emile George | Wellsville | |
| | TO CALIFFE THE TAXABLE TO TAXABLE | AIL |

^{*}Not in Attendance

JUNIORS

| Austin, Francis Ernest Barton, Meredith Bender, Miriam Lewis Blawat, Michael Frank Burrows, Marion Alene DeLaney, Sidney Reed Flint, Robert Leon Fuller William Cooper | Emporium, Pa. Eng. Pleasantville Art Alfred Eng. Friendship Art Williamsport, Pa. Eng. Hornell Eng. |
|--|---|
| Fuller, William Cooper | Palatine Bridge Eng |

| NAME | RESIDENCE COURSE |
|-----------------------------|-------------------------|
| Gaulrapp, Richard Alfred | Queens Village Eng. |
| Green, Wilbur Fisk | Horseheads Eng. |
| Harwood, Lyman See | Lockport Eng. |
| Heard, Marian Gladys | West New Brighton Art |
| Hillmiller, John Karl | Salamanca Eng. |
| Huffcut, Harold Winters | Auburn Eng. |
| Lockwood, Mervin Dale | Portland Mills, Pa Eng. |
| McCourt Francis Higgins, Jr | Hempstead Eng. |
| McLean, Wilma Christine | Hempstead Art |
| Maroney, Paul Anthony | Salamanca Art |
| Martin, Pauline | Alfred Art |
| Mitchell, Ruth Lois | Hornell Art |
| Mott, Hazel Evelyn | Mt. Kisco Art |
| Nobbs, Robert Charles | Eden Eng. |
| Rogers, Elizabeth Louise | Daytona Beach, Fla Art |
| Schlehr, Walter Raymond | Cleveland, Ohio Eng. |
| Shremp, Raymond Maxwell | Rochester, Pa Eng. |
| Smigrod, Frieda Edythe | Cedarhurst Art |
| Smith, Bernadine Frances | Alfred Art |
| Splitt, Howard Arthur | Rochester Eng. |
| VanSicklen, August Kenneth | Islip Eng. |
| Whitfield, Anne Morehead | Richmond, Va Art |

SOPHOMORES

[†] Work completed in Summer School.

| NAME | RESIDENCE COURSE | | |
|--|--|---|---|
| Marley, Doris Elaine | RESIDENCE COURSE | NAME Hall, Elsie Mae Hanigan, David John Hanks, Frederick Graham Havek Mary Janet | RESIDENCE COURSE |
| Merck, Walter John | Hornell Ari Queens Village Eng. | Hall, Elsie Mae | Buffalo Art |
| Misel, Carl Henry, Jr. | Naples Eng. | Hanigan, David John | Camillus Eng. |
| Muller, Frederick Wentworth | Bellerose Eng. | Hanks, Frederick Graham | Bolivar Eng. |
| Ostrander, Van Rensselaer | Olean Eng. | | Kittanning, Pa Art |
| Parmalee, Vivian Hope | Oneids Aut | Henning, William John | Ridgefield Park, N. J Eng. |
| Perry, Regal Orson | Whitesville Eng. | Henry, Lester Max | Hornell Eng. |
| Razey, Robert Martin | Hornell Eng. | Hill, Richard Kermit | New York City Eng. |
| Reynolds, Owen Joseph | Addison Eng. | Holstein, Seymour Schuyler | New York City Eng. |
| Robinson Ruby Donna | Andover Ari | Horton, John Spicer | Whitesville Eng. |
| Roe, Leon Margeson | Hornell Eng. | House, Dorothy Ruth | Chester Art |
| Rowley, Robert Warner | Silver Creek Eng. | Hubertus, William Peter | Wellsville Eng. |
| Schiffner, Louis James | Little Valley Eng. | Ingersoll, Dorothea Jeannette | Fillmore Art |
| Shappee, Harold LeRoy | Elmira Eng. | Jaquiss Harry Mason, Jr | Floral Park Eng. |
| Sixbey, Carlton Buck, Jr | Mayville Eng. | Johns, Persis Meriam | Binghamton Art |
| Smith, Wilma Myrtle | Cuba Art | Keane, John Edward | Dobbs Ferry Eng. |
| Steenrod, Harold Francis | Belmont Fing. | Kilburn, Theola Evelyn | Little Valley Art |
| Taylor, Virginia Maxson | Alfred Art | Kingsley, William Paul | Newburgh Eng. |
| Towner, Joseph Benjamin | Hornell Eng. | Krasity, Vera Mary | Riverhead Art |
| Vezzoli, Dante | Winfield Eng. | Knenn, Whitney William | Franklinville Eng. |
| Westphal, Mildred Lu | Floral Park Art | LaBelle, Arthur Thomas | Sodus Eng. |
| | | Larson, Helga Evelina Ottilia | KeesvilleArt |
| FRESHME | · N | Leach, Kenneth Hugh | Elmira Eng. |
| | | Leach, Marjory Phyllis | Whitesville Art |
| | | | |
| Arwine, Alva Stewart | Hornell Eng. | Morris, Lewis Donald | Conesus Eng. |
| Aschman, Elsie Eva | New York City Art | Murray, John Delaney | Elkland, Pa Eng. |
| Aschman, Elsie Eva | New York City Art Salamanca Art | Murray, John Delaney Newton, Devaulson Dan | Elkland, Pa Eng. Homer Eng. |
| Aschman, Elsie Eva Aust, Frances Ruth Bakker, Lammechiena | New York City Art Salamanca Art Plainfield, N. J. Art | Murray, John Delaney | Clkland, Pa.Eng.HomerEng.WaverlyArt |
| Aschman, Elsie Eva Aust, Frances Ruth Bakker, Lammechiena Bastow Edna Margaret | New York City Art Salamanca Art Plainfield, N. J. Art Dobbs Ferry Art | Murray, John Delaney | Elkland, Pa. Eng. Homer Eng. Waverly Art Waverly Art |
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| NAME | RESIDENCE COURSE |
|----------------------------|---------------------|
| Warner, Christine Marjorie | Silver Creek Art |
| Webber, Beryl Arlene | Lyndonville Art |
| Wessels, Vincent Eldridge | Avoca Eng. |
| Weston, Vera Mildred | Niagara Falls Art |
| Wheeling, Hobart Ferdinand | Pittsburgh, Pa Eng. |
| Young, Albert Vincent | Hornell Eng. |

SPECIALS

| Munroe, Helen Barnard, A. B | Longmeadow, Mass. | Ari |
|-----------------------------|--------------------|----------|
| Wooh, Tee Ho | Pyeng Yang, Korea. | Ceramics |

SUMMARY

| Art | Engineering | Total |
|--|---|-------|
| Seniors 15 | 14 | 29 |
| Juniors 12 | 19 | 31 |
| Sophomores | 34 | 45 |
| Freshmen 32 | 49 | 81 |
| Specials 1 | 1 | 2 |
| graphing the state of the state | *************************************** | |
| 71 | 117 | 188 |

