ALFRED UNIVERSITY PUBLICATION

New York State School of Clay Working and Ceramics

Catalogue Number



1925 -- 1926

Alfred, N. Y.

SEPTEMBER, 1925

No. 9

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.

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BOARD OF MANAGERS

(Appointed annually by the Trustees of Alfred University)

BOOTHE C. DAVIS, President

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Calendar

September, 1925 — August, 1926 First Semester 1925-1926

First Semester 1928	1926	
Entrance Examinations Registration Instruction begins Alid-semester grades Thanksgiving Recess begins	Monday Mon. and Tucs. Wednesday Friday Wodnesday evening	1925 Sept. 21 Sept. 21-22 Sept. 23 Nov. 20 Nov. 25
THANKSCHVING RECESS Instruction resumed Founders' Day Holiday Recess begins	Menday morning Saturday Thursday evening	Nov. 30 Dec. 5 Dec. 17
HOLIDAY RECESS Instruction resumed Mid-year examinations begin Examinations end, semester ends	Tuesday morning Monday Friday evening	1926 Jan. 5 Feb. 1 Feb. 5
Second Semes: Instruction begins Alid semester grades Easter Beress begins	fer Tuesday Tuesday Tuesday evening	Feb. 9 Mar. 30 Mar. 30
EASTER RECESS Instruction resumed Memorial Day Seniar examinations begin Senior examinations end Final examinations begin Final examinations end	Wednesday morning Sunday Alonday Wednesday Thursday Friday	April 7 May 30 June 7 June 9 June 10 June 18
EIGHTY-NINTH COMMENCEMENT Annual Sermon before Christian Associations Commencement Play Baccalaureate Sermon	Saturday morning Saturday evening Sunday evening	June 12 June 13

SUMMER VACATION

Alumni Association, Public Session

Class brenkfasts and reunions

Annual meeting of Corporation

Annual meeting of Trustees

Commencement Exercises

President's Reception

Alumni Association, Directors' meeting

Annual Concert

Class-day Exercises

Alumni Banquet

Summer Session 1926

Monday afternoon

Monday evening

Tuesday morning

Tuesday morning

Tuesday afternoon

Tuesday afternoon Tuesday evening

Wednesday morning

Wednesday afternoon

Wednesday evening

June 14

June 14

June 15

June 15

June 15

June 15

June 15

June 16

June 16

June 16

Session begins	Tuesday	July 6
Session ends	Tuesday	Aug. 17

OFFICERS OF INSTRUCTION

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

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

ARTHUR H. RADASCH, S.B.
Professor of Ceramic Engineering.

Donald W. MacArdle, S.B., S.M. Professor of Chemistry.

Marion L. Fosbick Professor of Modeling and Pottery.

CLARA K. NELSON
Professor of Drawing and Design,

OTHER EMPLOYEES

Curtis F. Randolph Treasurer and Accountant.

Cortez R. Clawson, Litt.B., A.M. Librarian.

JOYCE M. BALDWIN Secretary,

Eva B. Middauchi Matron.

Neal C. Welch Assistant.

A. L. Whittord Janitor and Machinist.

NEW YORK STATE SCHOOL OF CLAY-WORKING AND CERAMICS

This school was founded by the State of New York in 1900. The building was especially designed for the purpose, and is located on land which was deeded by Alfred University to the people of the State. It is built of red brick and terra cotta with gray trimmings and roofed with brown tile. The main building has a floor space of about thirteen thousand square feet, and a frontage of seventy-five feet.

To this has been added a fireproof wing measuring about 36 by 57 feet and three stories in height.

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

In the sub-basement are located the heating plant and fuel storage.

On the principal floor are the executive offices, the technical laboratories and a lecture room. On the second floor is the department of Design and Applied Art and on the third floor a lecture room and a studio for advanced work.

The motive power is supplied by two Otto gas engines, of 36 and 8 horse power, respectively.

The school maintains a complete techineal library for reference and for the encouragement of independent reading and research. It also encourages membership and activity in the New York State Students' Branch of the American Ceramic Society, which was chartered at Alfred in 1915, and in the Ceramic Guild organized by the students in Art.

Courses Offered

The courses of study which lead to a degree extend over a period of four years and embrace the science, technology, and art special to ceramics.

The course in Ceramic Engineering is designed to qualify men to occupy positions as superintendents, scientific experts, and ceramic chemists.

Two courses are given in the Department of Applied Art. The first is for those wishing to major in Ceramic Art. The second is a course in Normal Art for those wishing to do intensive work in Drawing and Design, relative to teaching in the public schools. With the second course the student is required to take all the educational subjects which lead to the procuring of a Teacher's Professional Certificate.

Benefits of the School

The demand for trained elay-workers has grown to considerable proportions, nor is there any likelihood that this demand will decrease.

Hitherto, no student who has passed through the selicol successfully has remained unemployed, and the director is continually in receipt of applications for persons qualified to fill responsible positions. Every effort is made by the faculty to place the students in communication with manufacturers desiring to offer them employment.

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

Physical Training

The aim of the work in physical training is to bring the whole body to its normal condition, to acquire ease and precision in movement, and to develop the health and strength of the student.

Gymnasium. A new gymnasium, now under construction, is located on the cast side of Kanakadea Creek. The building as planned comprises two sections, one to face the street, and a rear section, now complete, will house the basketball court and an indoor running track, together with portable bleachers to seat about 1200 people. The plans for the front section call for boys' and girls' locker rooms, a general gymnasium, girls' gymnasium, athletic offices, trophy room, small indoor field, jumping pits, and heating plant.

ATHERIC FIELD. The athletic field embraces over three acres of level land. All local intercollegiate contests in football, base-hall, and track athletics are held on this field. The field affords a running track (one-sixth of a mile). Appropriate apparatus for field sports is provided.

EXPENSES

Matriculation	\$5 00 10 00
COLLEGE FEES per semester:	
Tuition (10 to 18 hours) per semester*	90 00
Tuition, per hour (under 10 and over 18 hours), per semester.	10 00
Reading Room	2 00
Athleties	7.50
College Paper (Fiat Lux)	1-25
EXTRA FRES per semester, for the use of instruments, apparatus and laboratory materials:	
Chemistry 1, 5	8 00
Chemistry, 2, 3,	10 00
Gymnasium (Freshmen, Sophomores)	2^{-00}
Machine Shop	ő 00
Physics Ib	5 OO
Physics 4	5 00
Surveying	5 00
Woodshop	8 00

^{*} Tuition free to residents of New York State.

MUSCELLANEOUS FEES AND DEPOSITS:

Chemistry Breakage Deposit, Chemistry 1, 5	\$10
Chemistry Breakage Deposit, Chemistry 2, 3	[5]
Room Deposit (all students in College dormitories)	10
Special Examinations (final and mid-semester), each	[a i
Late Registration (all students not registering on Registration	
days)	ă 1

Students who register for more than eighteen hours will be charged seven dollars and fifty cents for each additional hour.

Students taking fewer than ten hours will be charged sever dollars and fifty cents for each bour.

Semester bills for college 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. Pailure to comply with this regulation renders the student liable to suspension.

No tuition is charged to residents of New York State who are prepared to enter the regular courses, but no student is entitled to free tuition in any college class not forming part of a course in the School of Ceramics, nor are students registered in the college entitled to free tuition in the School of Ceramies in respect of and ever, the class period is two hours. There are no classes on Satursubject for which college credit is given.

Rooms and Board

Rooms and board, including fuel, can be obtained in private families from \$7 to \$8 per week. Board in clubs organized and managed by the students themselves varies from \$4.50 to \$8 per week according to the means and inclinations of the students.

Estimated Annual Expenses

Excluding cost of clothing and travel, one can go through & college year by close economy upon \$450; and by exercising care upon \$500. An allowance of \$650 is comfortable.

Board, \$4.50 to \$6.00 per week	\$160	()()	Ĺō	\$200	003
Rooms		00	LO	110	003
Laundry	20			30	
Books	25				
Class dues, etc					
College trition, incidentals and extras	200	00	Lo	250	00\$
College tuition, ineidentals and extras					1

Total for year.....

Self-Support

Many of the graduates have been persons of very limited means who worked their way through college. While the school cannot o 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 selfsupport they should lengthen their term of sudy.

College Year

The college year consists of two semesters of about eighteen weeks each. There is a vacation at the holidays of about two weeks, a week's recess at Easter, and a summer vacation of about thirteen weeks.

Class Exercises

The class period is one hour in length; in laboratory work, howday or Sunday. Each student is expected to have at least sixteen hours per week, and may not register for more than seventeen with the following exceptions: (1) If a student has no standing less than B in the preceding term he may register for eighteen hours. (2) Students who have a grade of A in more than half their work may register for more than eighteen hours upon the approval of the faculty.

The one hour credit for physical training is not included in these tigures.

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 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.

Unit of Credit

One class period per week for one semester is taken as the unit of credit and is called a semester hour.

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

Regulations on Absences.

The maximum number of absences allowed per hour credit per semester is three (3). That is, in a two-hour course, six (6) absences are allowed; in a three-hour course, nine (9); in a five-hour course, fifteen (15). Overentting will reduce the student's grade to F.

Examinations

Final examinations are held at the close of each semester in additional occasional written tests during the semester. Fees will be charged for all examinations taken by those not regular members of classes, or at other times than those appointed for the class examinations.

ADMISSION

Candidates for admission to the freshman class must be at least sixteen years of age and must present certificates of good moral character. The particular requirements for entrance are explained below. 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 must be offered.

Entrance Requirements

English. Three 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 ten books selected from the list prescribed by the college entrance associations. The following ten are recommended: Shakespeare, Julius Casar, and The Merchant of Venice; The Sir Roger de Coverly 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; Washington, Farewell Address and Webster, Bunker Hill Oration; Macaulay, Life of Johnson, or Carlyle, Essau on Burns.

Foreign Languages. Four units. Latin grammar and composition; Casar, four books of the Gattic War; Cicero, six orations; Virgil, six books of the Aenid, or equivalents; or four units from not more than three of the following: Latin, Greek, German, French, Spanish.

MATHEMATICS. Two units. Elementary Algebra, including fundamenetal operations, factoring, fractions, ratio, proportion, radicals, quadradies; Plane Geometry, including the straight line, angle, circle, proportion, similarity, and areas.

Science. One unit. Biology, Botany, Physiology, Zoology, Physical Geography, Physics, or Chemistry. Any one may be offered.

ELECTIVE. Five units in addition to the above subjects. Candidates may substitute one unit of science and one unit of advanced mathematics for two units of foreign language. Candidates for the degree in Ceramic Engineering should offer Solid Geometry and Intermediate Algebra.

Summary

English	3 units
Mathematics	2 nnits
上 表 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	4 units
Science	1 mail
Elective	5 units

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

Admission on Certificate

REGENTS' CREDENTIALS. The credentials of the University of the State of New York'are accepted instead of an examination in the subjects required for admission, so far as they cover these requirements. (For description of subjects, see Entrance Requirements.)

Principal's Certificate. Certificates are also received from principals of preparatory or high schools outside of New York State, provided such schools are known to the faculty for thoroughness of instruction. Such certificate must specify, in connection with each subject, the extent to which it has been pursued, by

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 day preceding Registration Day.

Conditioned Students

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

Admission to Advanced Standing

Students from other schools, having a course equivalent to that of the New York State School, may enter at the point from which they take dismissal, upon presentation of satisfactory certificates of standing and character, including an honorable dismissal.

Industrial Experience

Each candidate for a degree in Cevamic 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 Sophomora 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

lipon 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

	Second Semester Mathematics 1 Chemistry 1 English 1 Ceramics 1 Draiting Physical Training	5 5 3 1 3 1
Secon	d Year	
First Semester Mathematics 6 3 3 3 5 5 5 5 5 5 5	Second Semester Mathematics 6 Physics 1 Chemistry 3 Caramies 2 Economics 5 Physical Training	3 5 4 3 2 1
18		18
Thire	I Year	Z
**************************************	**** /**************************	
First Semester Mechanics 3 Chemistry 6 4 Ceramie Engineering 1 3 Applied Mathematics 2 Geology 3 Elective 3	Second Semester Mechanics Chemistry 6 Ceramic Engineering 1 Professional English Mineralogy Elective	3 4 3 2 3 3
18		18
Four	th Year	
First Semester Ceramic Engineering 2 . 4 Physics 2 . 3 Power and Machinery . 2 Elective 4. 9	Second Semester Ceramic Engineering 2. Chemistry 5 Power and Machinery. Elective	4 3 2 9
18	•	18

The elective is to be chosen, with the consent of the Director, from following subjects: German or French, four hours; Introduction to Economics, six hours; Labor Problems, three hours; Principles of Public Finance, three hours; Summer Practice, two hours; Surveying, four hours; Thesis, four hours.

Course in Applied Art

First Year

The state of the s	
First Semester	Necond Semester
Drawing 1, Studio Practice	2 Drawing 1, Studio Practice 2
Pottery Making 1	1 Pottery Making 1 1
	2 Design 1, Lecture and Studio 2
Ceramies I, Lecture	t Ceramics 1, Lecture
English I, English Composition	English 1, English Composition
and Rhetoric	3 and Rhetoric 3
Modern Language	3 Modern Language 3
Chemistry 1	3 Chemistry I
Physical Training	Physical Training 1
Ethics 1	1 Ethies 1 1
m1411111 m 1 m	- -
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Second Year

A WAR AS A SANCE OF THE SANCE O		and the second s	
First Semester		Second Semester	
Drawing 2, Studio Practice	2	Drawing 2, Studio Practice	2
Pottery Making 2, Studio Practice	2	Pottery Making 2, Studio Practice	2
Design 2, Lecture and Studio	3	Design 2, Lecture and Studio	2
Ceramies 2, Lecture and Labora		Ceramics 2, Lecture and Labora	
tory	3	tory	3
English 8	2	English 8	艺
Modern Language	.3	Modern Language	4
Physical Training	1	Physical Training	1
Elementary Psychology	2	Elementary Psychology	2
	~ ~ ~	****	
	17		17
		1	

Third Year

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
First Semester	- 1	Becond Semester	
Drawing 3, Studio Praetice	2	Drawing 3, Studio Praetice	2
Pottery Making 3, Studio Practice	3	Pottery Making 3, Studio Practice	3
Design 3, Lecture and Studio	2	Design 3, Lecture and Studio	2
Ceramie Craft 2, Lecture and		Ceramie Craft 2, Lecture and	
Studio	2	Studio	2
Educational Psychology	3	Principles of Education	.)
Listory of Western Europe	3	History of Western Europe	3
Teramics 7, Laboratory	2	Ceramics 7, Laboratory	2
mag.			—
	17	<b>*</b>	17

### Fourth Year

		- The state of the	
First Semester Drawing 4, Studio Practice Pottery Making 4, Studio Practice Design 4, Lecture and Studio Methods and Practice Teaching. Coramics 8, Thesis	3 2 6 2	Second Semester Drawing 4, Studio Practice. Pottery Making 4, Studio Practice Design 4, Lecture and Studio. Ceramic Guild Management, Lectures and Studio. History of Art. History of Education. Ceramics 8, Thesis.	2 2 2 2 2 2 2 2 2 2
	1	,	

### DEPARTMENTS OF INSTRUCTION

### Description of Courses

### CERAMIC TECHNOLOGY

#### Professor Binns

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 bodied 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.

Third year. Four hours laboratory. Two hours.

4. Thesis in applied art.

Fourth year. Four hours laboratory. Two hours.

### CERAMIC ENGINEERING

#### Professor Radasch

1. feetures are given on the chemical, physical, and mineralogical changes which take place in clays, bodies, and glazes during their preparation and burning. Details of different types of plants, such as brick, pottery, refractory, 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 application of general engineering principles to the ceramic industry are considered in this course. The topics studied include heat transfer, methods of temperature measurement, drying, mechanical handling of materials, etc.

Laboratory practice includes the making, calibration, and use of various measuring instruments and the general reconciliation of theory with practice.

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

3. Refractories, glass, enamels, lime, plasters, and cement are studied in detail.

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.

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 ecramic materials.

Fourth year. Three hours tecture and recitation. Three hours. I. Mineralogy. This course includes an introduction to crystallography, microscopic mineralogy and the identification of minerals and rocks by inspection and simple tests.

Fourth year. Two hours lecture and two hours laboratory, Three hours, II.

### 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 MacArdle

- 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. This course serves to emphasize the principles involved in chemical analysis, to give the student practice in laboratory manipulation, and to serve as a medium for further instruction in inorganic chemistry. Preliminary experiments illustrate principles and give practice in writing chemical equations and are followed by the analysis of simple unknown solutions and salts and finally by the complete analysis of several industrial products, such as alloys, pigments, minerals, ores, glass, enamels, etc. Lectures and recitations, one period; laboratory, two periods. Textbook, Noyes, Qualitative Chemical Analysis. Prerequisite, Chemistry 1. Three hours. 1.
- 3. QUANTITATIVE ANALYSIS. This course is devoted to volumetric analysis and elementary gravimetric analysis. In the laboratory, accuracy, care, and integrity are emphasized as being necessary for successful analysis. The principles of stoichiometry are also taught. Lectures and recitations, one period; laboratory, two periods. Textbook, G. M. Smith, Quantitative Chemical Analysis. Prerequisite, Chemistry 2. Three hours. 11.
- 4. QUANTITATIVE ANALYSIS. This is an advanced course, covering the analysis of rocks, clays, cements, etc. Lectures and

recitations, one period; laboratory, two periods. Textbook, Hille-brand, The Analysis of Silicote and Carbonate Rocks. Prerequisite, Chemistry 3. Three hours. 1.

- 5. Further 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 kilos, heat losses, etc., is included in this course. 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. Lectures and recitations, three periods. Textbook, Noyes and Sherrill, Chemical Principles. Prerequisite, Chemistry 2, Mathematics 6, and Physics 1a and 1b. Three hours.

### APPLIED MATHEMATICS

### Professor MacArdle

A review of differential and integral calculus and differential equations with particular reference to the use of these mathematical methods in mechanical, chemical, and physical problems. Interplation, graphical integration, plotting and use of curves, empirical equations, theory of errors. Lectures and recitations. Prerequisite, Mathematics 6 or its equivalent. Two hours.

### APPLIED ART

Miss Fosdick

Miss Nelson

Public and private schools are requiring well trained teachers of crafts. Although pottery is the craft in which the school offers exceptional facilities for production, a crafts course for the better understanding of color and design in Applied Art has been added in the junior and senior years. This includes block printing and batik.

The electives allowed in the junior and senior years may be utilized in the department of education as required work for the teacher's professional certificate and in further study in college subjects, or they may be used in additional craft work.

### Drawing

- 1. Freehand perspective, value study. First year. Four hours studio. Two hours.
- 2. Composition, east drawing, lettering. Second year. Six hours studio. Two hours.
- 3. Kanakadea drawings, sketch.
  Third year. Four hours studio. Two hours.
- 4. Sketch.

Fourth year. Four hours studio. Two hours.

### Pottery Making

1. The first semester is given over to a course in appreciation leading to discrimination in design for pottery. Building of pottery commences with the second semester, which includes glazing with hand ground glazes.

First year. Three hours studio. One hour.

2. Continuation of building of pottery with elementary work

on the wheel. Use of varied types of glazes in connection with laboratory work in glaze preparation and mold-making.

Second year. Four hours studio. Two hours.

3. Processes of pottery decoration, slip treatment, underglaze and overglaze, modeling and incising. Kiln management and firing.

Third year. Six hours studio. Three hours.

4. Advanced work in decorating and glazing. Advanced wheel work.

Fourth year. Six hours studio. Three hours.

### Design

1. Design theory.

First year. Four hours studio. Two hours.

2. Color theory.

Second year. Six hours studio. Two hours.

3. Design and color applied to block printing and batik.

Third year. Four hours studio. Two hours.

4. Thesis in applied design.

Fourth year. Four hours studio. Two hours,

### Ceramic Craft

Special decorative processes for pottery, the making and renewal of equipment, and care of machinery.

Third year. Four hours studio. Two hours.

### Guild Management

Production of pottery with special reference to commercial problems and economy of production. The problem of the sales room and private studio. Kiln management. Ceramic craft a prerequisite.

Fourth year. Four hours studio. Two hours,

### Honor Courses

Third and fourth year students complying with the requirements for Honor Courses stated in the eatalogue of Alfred College may do additional work in an Honor Course in pottery making.

### History of Art

Lectures and recitations illustrated with photographs, slides and easts on the history of Art and the appreciation of beauty. The beginnings of art as seen in the work of primitive peoples and of children. Egyptian architecture and decorative arts. The architecture and sculpture of Greece. Roman achievement in civic art. The great cathedrals and the decorative arts of the Middle Ages. The painting and sculpture of the Renaissance. Modern Art.

The work is done through lectures, supplementary reading and keeping of note books.

Third year. Two hours recitation. Two hours.

# DEPARTMENT OF INVESTIGATION AND RESEARCH

### Clay Testing

#### Professor Binns

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 elay, 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 Radasch

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.

### Junious --- Continued

NAME

RESIDENCE

COURSE

			KAMP:	resolvery for fire	ASSESSED BY AND ADDRESS.
REGISTRATION 1925-	-1926	S	gtinius, Kenneth Eastman te, Frank Edward jr, William Giles ēleh, Neal Carney	Lakemont	Eng. Eng. Eng. Eng.
Grad	UATES		legn, Herman Gerald	Falconer	Eng.
NAME	RESIDENCE	COURSE	lkinson, Frances Louise	Cuba	Art.
Strate, Frederick Morgan	Wellsville	Eng.			
			§ — Ворномов		
Sec	NIORS		ly, Abde	Hyberabad, India	Isng.
Babcock, Mary Elizabeth	Leonardsville,	Art,	šokheim, Arnold	Albany	Eng.
Babcock, Paul Randall	Hornell	– Sei, în Cer	andige, Helen Bernese	Scotla	Art.
Baldwin, Joyce Mabel	Lakemont	Art.	lose John Winston	Cambridge,	Eng.
Chamberlain, Herman Earl	Cuba,	Eng.	aleman, Beatrice Belle	llion	Art,
Conklin, Alma Lois	Chester	Art.	allins, William George	New York	Eng.
Luon, Agues Incz	Wellsville	Art.	Pozier, Paul Henry	Canisteo,	Eng.
McDivitt, Sada Frances	Bolivar,	Art.	rozier, Wendell Marsh	Canisteo	Eng.
Peterson, Carl Frederick Augustinus	Jamestown	Eng.	kiley Wesley Arthur,	Bradford, Pa	Eng.
Prentice, Margaret Louise	New York	Art.	levitt. Desmond Earl	Malta, Ill	Eng.
Rogers, William Henry	Alfred	Eng.	almer, Eugene William	Olean	Eng.
Rose, Charlotto Hanna	Canisteo	Art.	briner Raymond Edward	Wellsville	Eng.
Senmans, Carolyn Esther	East Pembroke	Art.	filman, Louis Albion	Laconia, N. H.	Eng.
Warder, Hallic Elayne	Lackawanna	Art.	Ell, Maurice William	Chester	Eng.
Wileax, Ray Francis	Falconer	Eng.	Iofimau, John Bacou	Shiloh, N. J	Eng.
Woodward, Herbert Winfield	Paterson, N. J.	Eng.	Iolland, Dorothy Evelyn	Hempstead	Art.
Wu, Tso Ming	Peking, China	Eng.	lughes, Robert Norris	Randolph	Eng.
FI ME MON AMERICAN CONTRACTOR OF THE PROPERTY	r committee continues and a second	Dug.	Ivland, David Lee	Lima	Eng.
Just	rankina ad		Soughlead, William Henry.	Andover	Eng.
- 11		3-7	ärks. Daniel Wynkoop	Wellsville	Eng.
Amberg, Charles Rhodiner	Elmira.	Eng.	Miller, Kenneth Gordon	Ticonderoga	Eng.
Boyce, Robert Esterly	Chester, W. Va	Eng.		Brooklyn	Eug.
Bristol, Julia Athalene	Cuba		Rutino, Anthony	Friendship	Art.
Buhrmaster, Viola Caroline	Scotia		Polter, Florence Sally		Eng.
Bull, Ruth Dorothy	Lake Placid	Art.	saunders, Stanley Spring	Alfred	Art.
Burdiek, Lyle Dixson	Little Genesee	Eng.	elkirk, Elizabeth Whiting	Albany	
Claire, Altana Mae	Alfred Station	Art.	Minner, Harriet Hayes	St. George, S. 1	Art,
Clarke, Jeanne Augusta	Yonkers		Smith, Theron Douglas	Buffslo	Eng.
Cosman, James Vincent	Paterson, N. J		Stolte, Norman Henry	Cleveland, Ohio	Eng.
Cottrell, Gertrude Louise	Tempe, Arizona		Jucker, Nathan Fred	Alfred	Eng.
Fulmer, Raymond Cooper	Fillmore		Utrich, Dorothy Elizabeth	Albany	Art.
Hamilton, Richard	North Harpersheld	Eng	Williams, Francis Jesse	Elmira	Fing,
Holmes, Henry Maxon	Alfred	Eng.	Withoy, Charles David	Wellsville	Eng.
Hubbard, Frank Leland	Wellsville	Eng.			
Husain, Tajamul.	Hyderabad, India	Eng.	Fresi	IMEN	
Hutchinson, Grace Edibell	Lowell, Mass		Adams, Howard Lewis	Angelica	Eng.
Ingoldsby, Frank Maryin	Lakemont		Baldwin, Evereft Eldon	Lakemont.	Eng.
Jeffrey, Gilbert Hoffman	Milton, Wis		Brown, Robert Ellis	Almoud.	Eng.
Lum, Arlouine Odessa,	Welleville	Art.	Bucci, Joseph Dominick	Port Chester	Eng.
McNerney, Francis DeSales	DnBois, Pa	Eng.	Burdett, Roy Francis.	Hornell	Eng.
Perrone, Patrick Dominick	Johnsonburg, Pa		Call, John Lloyd.	Buffalo	Eng.
Rockefeller, Gerald Otis.	Port Chester	Eug.	Carpenter, Harold Frederick	Canisteo	Eng.
		Eng.	Dubben Lin William	Bradford, Pa.	
Saunders, Harriet	Alfred		Duggan, John William	DERRUGE, PR.,	Eng.
Shults, Gilbert Beecher	Ellicottyille	Eng.	Maria Caranta		

### Presumen - Continued

NAMB;	RESIDENCE	CoURSE
Fenner, Donald Olin	W. Coudersport, Pa	Eng.
Fredericks, Dean Hayes	Flemington, Pa	Eng.
French, Gordon Elmer	Rochester	Eng.
French, Rolph Dillenbeck	Avoca	Eng.
Gardner, Paul Vickers	Nunda	Eng.
Getz, Wilbur Charles	Lock Haven, Pa	Eng.
Gilder, Charles Louis	Dansville	Eng.
Gridley, Daniel Philo	Wellsville	Eng.
Grier, James Dean	Lock Haven, Pa	Fing.
Hann, Franklin Albert	Buffalo,	Eng.
Hawley, Dorothy Adell	Rochester	Art.
Heinz, Adam	Bullalo	Eng.
Henry, Eleanor	New York	Art,
Henshaw, Doris May	West Falls	Art.
Hill, John Randolph	Ho-Ho-Kus, N. J	Eng.
Hinton, Robert Hoyle	Tabor, N. J	Eng.
Holmes, Lillian Wald	Alfred	Art.
Halse, Walter Thurston	Chester	Eng.
Humphrey, lugraham	Lime	Eug.
Klinger, Daniel George	Friendship	ling.
Koch, Evelyn Antionette	Queens Village,	Ari.
Leach, John Enfickl	Salamanca	Eng.
Linton, George Sidney	Groveland	Eng.
Lyon, Ruth Virginia	Bradford, Pa	Art.
Mays, James Carter	Canisteo	Eng.
Mueller, William Robert	Elmira	Eng.
Mulroy, James Philip	Buffalo	Eng.
Murray, Russell Holmes	Punxeutawney, Pa	Eng.
Nagel, Howard Frederick	Andola	Eng.
Newlands, Harlon Clifford	Woodhuli	Eng.
Ostrander, George William	Almond.	Eng.
Post, Helen Margaret.	Bloomfield, N. J	Art.
Reed, Kenneth Willard	Rochester	Eng.
Richards, Ronald Dana	Wellsville	Eng.
Rockefeller, Warren Willis	Port Chester	Eng.
Rolfe, Douglas Harold	Peckskill	Eng.
Sauuders, Milderena Lilian	Belmont	Art.
Schwenk, Carl Clarence	Shillington, Pa North Bloomfield	Eng.
Sisson, Verne Porter	Lima	ling.
Smith, Kenneth Eugene	Seio	Eng. Eng.
Smith, Robert Karl	Addison,	Eng.
Spencer, Ernest Henry	Priendship	Eng.
Stafford, Ethol Alice	Brockport	Art.
Stearus, Rhoda Isabel	Warsaw	Art.
Stillman, Paul Clarke	Alfred	Eng.
Stone, Claude Cariny	Wellsville	Eng.
Studwell, Charles LeRoy	Port Chester	Eng.
Thomas, Clarice Marie	Highwood, Conn.	Art.
Tredenniek, William Treloar	Johnstown, Pa	Eng.
Voorhies, Alfred Jeffrey	Nile	Eng.
the state of the s		***

### FRESHMEN-Concluded

NAME	RESIDENCE	counsn	
Vores, Adelaide Pearce	New Haven, Conn	Art.	
Welts, William Ward	Salamanca	Eng.	
Westcott, Henry Byard	Perth Amboy, N. J.	Eng.	
Williams, George LaRouctte	Cuba	Eng.	
Williams, John Elton	Hornell,	Eng.	
Williams, Leland Ellis	Hornell	Eog.	
Willson, Herbert Smith	Addison	Eng.	
Wilson, Bernard Floyd	Canisteo	Eng.	
Woodford, Austin Clarence	Mareellus	Art.	
Specials			
Ferris, Kenneth Noble	Wellsville	Eng.	
Lewis, Gordon Evans	Wellsboro, Pa	Eng.	
Miller, Andrew Williams	Galeton, Pa	Eng.	
SUMMARY			
Soniors			
Juniors			
Sophomores		** **	
Freshmen			
Freshmen Specials	**************************************		
Total in Ceramie School	« • » « « • » • • • • « « • » • • • « « » •	150	