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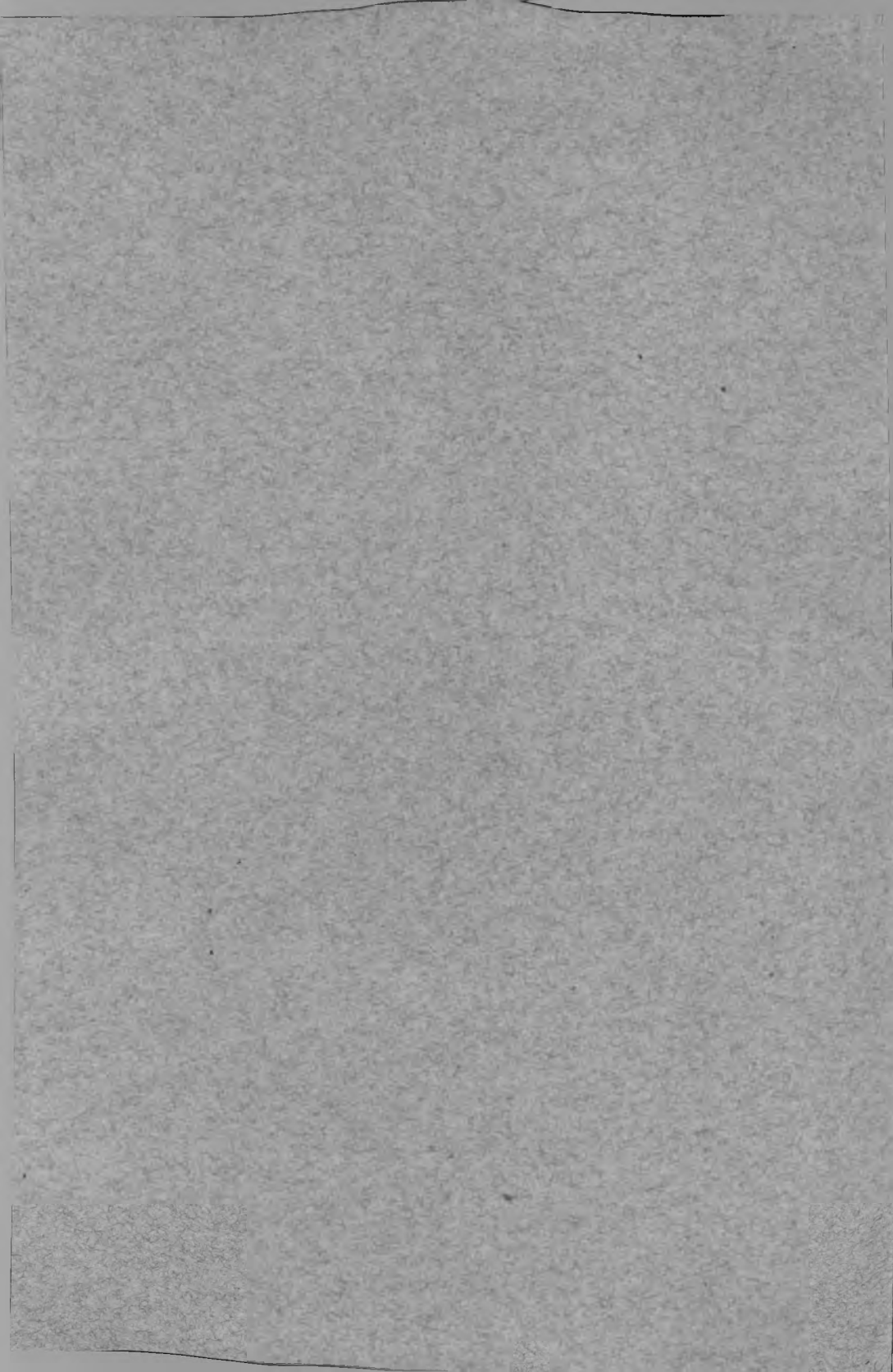
# OFFICIAL PUBLICATIONS OF CORNELL UNIVERSITY

VOLUME IV

NUMBER 12

## ANNOUNCEMENT OF THE COLLEGE OF ARCHITECTURE 1913-14

JUNE 1, 1913  
PUBLISHED BY CORNELL UNIVERSITY  
ITHACA, NEW YORK



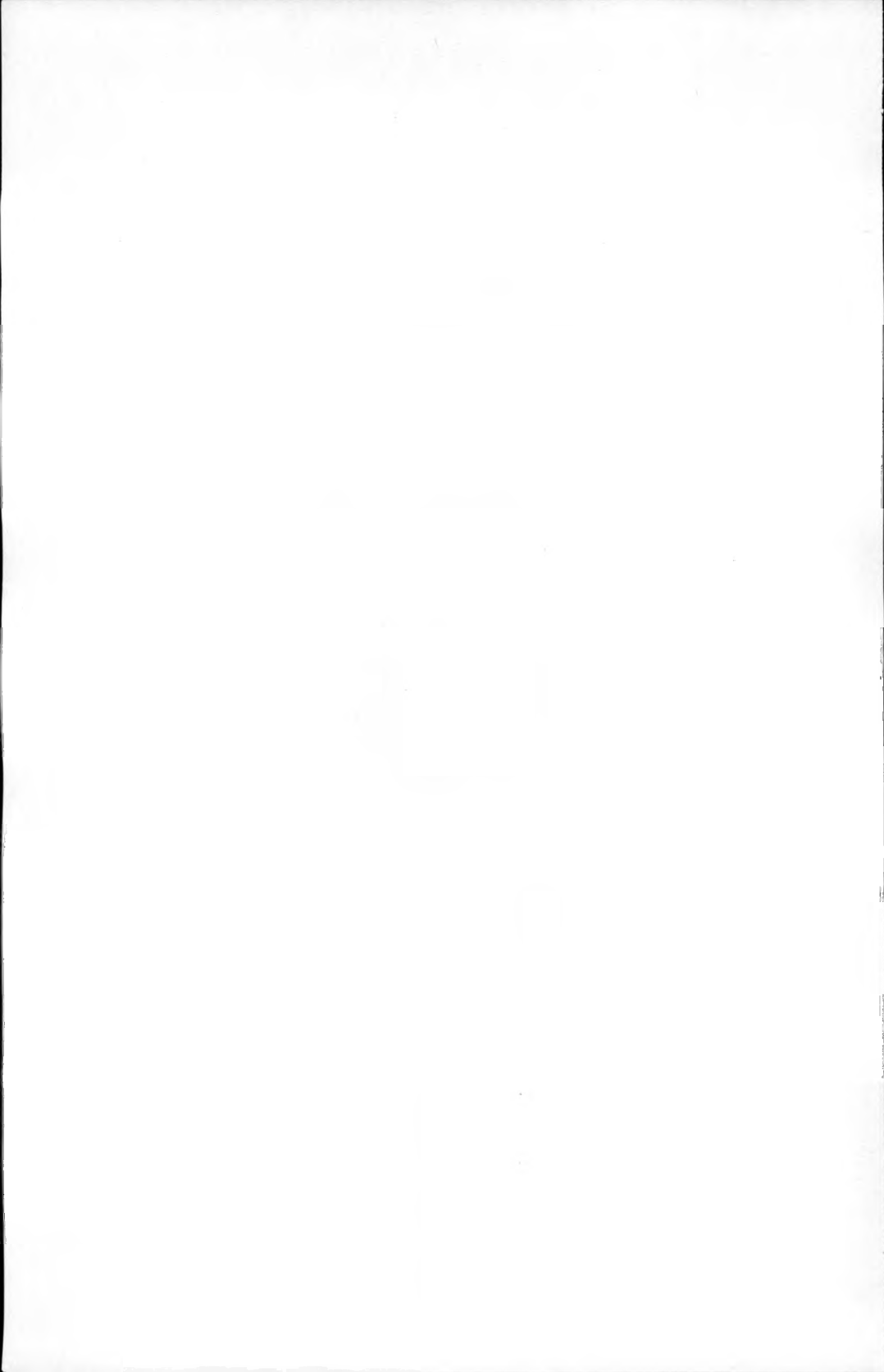
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# COLLEGE OF ARCHITECTURE

## FACULTY

- Jacob Gould Schurman, A. M., D. Sc., LL. D., President.  
Clarence Augustine Martin, Director of the College of Architecture,  
Dean of the Faculty, and Professor of Architecture.  
Olaf Martinus Brauner, Professor of Drawing and Painting.  
Georges Mauxion, A. D. G., Professor of Architecture, in charge of  
Design.  
Albert Charles Phelps, B. S., M. Arch., Professor of Architecture  
and Secretary of the Faculty of Architecture.  
George Young, Jr., B. Arch., Assistant Professor of Architecture, in  
the Theory of Construction.  
Christian Midjo, Assistant Professor in Free-hand Drawing and  
Modeling.  
E. Raymond Bossange, Ph. B., Assistant Professor of Design.  
Hiram Samuel Gutsell, B. P., A. M., Instructor in Free-hand Draw-  
ing.  
George Ray Chamberlain, M. E., Instructor in Free-hand Drawing.  
Hubert E. Baxter, B. Arch., Instructor in Architecture.  
David C. Comstock, B. Arch., M. Arch., Instructor in Architecture.  
Lorena Claire Gibbs, Secretary to the Director.  
Ellen Irene Steele, Librarian.

Students in the College of Architecture receive instruction also from a large corps of professors and instructors in the Colleges of Arts and Sciences, Civil Engineering, Mechanical Engineering, and Agriculture (Department of Landscape Design).

## PURPOSE OF THE COLLEGE

The aim of the College is to give the best training possible within the time limits of a university course. The intent is to give the fundamentals at least of that broad cultural training universally recognized as essential to the success of men who must meet others of the most varied training and experience, and who must work with them as professional advisers on important problems involving not only questions of personal taste but also business problems of great magnitude; and, at the same time, to give a thorough training in the science and art of an exacting profession which on the one hand touches closely the engineering professions and on the other is itself one of the fine arts.

The usual college course as at present established is of four years' duration. In recent years, however, technical standards and technical efficiency in practice have advanced so rapidly and so far, and the demand for broadly educated men in all of the professions is becoming so pronounced that a four-year course is no longer adequate to meet the highest demands. It is, therefore, strongly advised that students plan wherever possible to spend five years, or even six, rather than four in collegiate work, taking not only advanced professional studies but additional work in the humanities.

### ADMISSION AND CLASSIFICATION

Applications for admission to the College of Architecture are entertained from the following classes:

1. Those who desire to begin as freshmen the regular four-year course in architecture, or the four-year construction course with engineering alternatives.

2. Those who have already attended some technical school or institution of collegiate rank and who desire to enter with advanced standing and to continue the regular courses in the College of Architecture.

3. Those who desire to register as special students, not candidates for a degree, to take either the two-year special course as outlined for draftsmen, or to elect work along special lines.

4. Those taking a five-year course leading to the degree of Bachelor of Architecture.

For admission to longer courses—usually six years—leading to the degrees of Bachelor of Architecture and Bachelor of Arts or of Civil Engineer, see page 7.

For admission to the Graduate school, see page 7.

#### 1. Requirements for Admission to Freshman Class

All correspondence concerning admission to the freshman class should be addressed to the Registrar of Cornell University.

For admission to the four-year course, the applicant must be at least sixteen years of age (women, seventeen) and must offer fifteen entrance units which must include English 3, history 1, mathematics 4, French or German 3, and Physics 1. The three remaining units may be chosen from group c, or they may be additional units from group b. The term unit means the equivalent of five recitations a week for one year in a subject, except in drawing and in manual training in which five periods a week for one year give one-half unit credit.

## COLLEGE OF ARCHITECTURE

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Subject	Group a	Units
English A. . . . .		2
English B. . . . .		1
Algebra, Elementary . . . . .		1
Algebra, Intermediate . . . . .		$\frac{1}{2}$
Algebra, Advanced. . . . .		$\frac{1}{2}$
Geometry, Plane. . . . .		1
Geometry, Solid . . . . .		$\frac{1}{2}$
Plane Trigonometry . . . . .		$\frac{1}{2}$

## Group b

History—Ancient . . . . .	$\frac{1}{2}$ or 1
“ Modern . . . . .	$\frac{1}{2}$ or 1
“ American, Civics . . . . .	$\frac{1}{2}$ or 1
“ English . . . . .	$\frac{1}{2}$ or 1
German—First Year . . . . .	1
“ Second Year . . . . .	1
“ Third Year . . . . .	1
French—First Year . . . . .	1
“ Second Year . . . . .	1
“ Third Year . . . . .	1

## Group c

Greek—First Year . . . . .	1
“ Second Year . . . . .	1
“ Third Year . . . . .	1
Latin—First Year . . . . .	1
“ Second Year . . . . .	1
“ Third Year . . . . .	1
“ Fourth Year . . . . .	1
Spanish—First Year . . . . .	1
“ Second Year . . . . .	1
“ Third Year . . . . .	1
Italian—First Year . . . . .	1
“ Second Year . . . . .	1
“ Third Year . . . . .	1
Spherical Trigonometry. . . . .	$\frac{1}{2}$
Physics . . . . .	1
Chemistry . . . . .	1
Physical Geography . . . . .	1
Biology* . . . . .	1
Botany* . . . . .	$\frac{1}{2}$ –1
Zoology* . . . . .	$\frac{1}{2}$ –1
Agriculture . . . . .	$\frac{1}{2}$ –1
Drawing . . . . .	$\frac{1}{2}$ –1
Manual Training . . . . .	1

For further details concerning admission, fees, conditions at the University etc., see the General Circular of Information.

\*If an applicant has counted Biology (1) he may not also offer Botany ( $\frac{1}{2}$ ) or Zoology ( $\frac{1}{2}$ )

## 2. Admission to Advanced Standing

All correspondence concerning admission to advanced standing should be addressed to the Registrar of Cornell University.

A student who, having already attended some technical school or institution of collegiate rank, desires advanced standing in any regular course in the College of Architecture of Cornell University, should file with the Registrar of Cornell University, on an official blank to be obtained from him, a formal application for admission to advanced standing in the College of Architecture, along with an official certificate from the institution already attended, of his honorable dismissal, his entrance credits in detail, his terms of attendance, and the amount of work that he has completed, with a detailed statement of the courses pursued for which he desires credit at Cornell University. He should also send a catalogue of the institution, writing on it his name and marking the entrance requirements that he has satisfied and each subject that he has completed.

## 3. Admission as Special Students

All correspondence concerning the admission of special students should be addressed to the Director of the College of Architecture.

Two classes of special students are admitted as follows:

A. Applicants may, without formal examination, be admitted to the two-year special course in architecture, provided they give satisfactory evidence of ability to do the required work of the course and have neither been previously admitted to the University nor refused admission. For admission to this course the applicant must be at least twenty-one years of age; he must have had a good high school training or its equivalent, including particularly a good working knowledge of plane geometry and algebra through quadratic equations; and should be familiar with the details and proportions of the classic orders of architecture. He shall have had at least three years of experience in some good architect's office, or its equivalent, and shall submit with his application examples of his draftsmanship. Architectural drawings in particular are required, but it is to the applicant's advantage to submit any additional work that would tend to show his artistic ability or skill as a draftsman. The application should be accompanied by a certificate stating that the drawings submitted are the work of the applicant.



B. Students who have satisfied the entrance requirements to any four-year course in Cornell University, even though they may lack some of the specific subjects required for admission to the regular course in architecture, may be admitted as special students, not candidates for a degree, and may elect any work for which their preparation is adequate.

#### 4. Admission to the Five-Year Course

Students who meet the requirements for admission to the College of Arts and Sciences but lack the advanced mathematics required for admission to the regular course in architecture may be admitted to a five-year course in the College of Architecture leading to the degree of Bachelor of Architecture.

### SIX-YEAR COURSE LEADING TO THE DEGREES OF BACHELOR OF ARCHITECTURE AND BACHELOR OF ARTS OR CIVIL ENGINEER

A student in the College of Arts and Sciences who has satisfied at least six terms of residence, exclusive of summer sessions, and who has a credit of at least ninety hours, may with the permission of the faculties concerned be registered both in the College of Arts and Sciences and in the College of Architecture. This provision enables a student who so desires, to obtain the degree of Bachelor of Arts at the end of four years, and the degree of Bachelor of Architecture at the end of six years.

By special arrangement between the colleges concerned, a student may in six years secure the degrees of Bachelor of Architecture and Civil Engineer.

#### Admission as Graduate Students

All correspondence relating to graduate work should be addressed to the Dean of the Graduate School.

In all departments of the College of Architecture, work is arranged to meet the special needs of graduate students. Candidates for advanced degrees in architecture must be graduates of schools of equal standing with the College of Architecture, and their training in design or other subjects elected for graduate study must be equivalent to the training required in the same subjects by this College for the degree of Bachelor of Architecture.

**Office Work and Building Experience**

It is an indisputable fact that, other things being equal, men who have had practical experience either in architecture or in building are the ones who derive the greatest benefit from their college work. For this reason students are urged to spend their summer vacations, so far as possible, as assistants in good offices or on actual building operations.

**Scholarships and Prizes**

For detailed information concerning State scholarships and University undergraduate scholarships, which are open to students in Architecture in common with other students in the University, see the General Circular of Information, pages 32 to 36.

A University fellowship, of the value of \$500, and a graduate scholarship giving free tuition, are awarded annually to graduate students in Architecture.

The Sands Memorial Medal and the Brown Memorial Medal are awarded annually as prizes for especially meritorious work in design.

Cash prizes in special competitions are frequently given by persons interested in the College. Such prizes of \$10, \$25, \$30 and \$70 were given by ex-President Andrew Dickson White in 1912-13.

The Fuertes Memorial Prizes in Oratory, first prize \$100 and second prize \$20, are open to students in Architecture on equal terms with students in Engineering.

## REGULAR FOUR-YEAR COURSE LEADING TO THE DEGREE OF BACHELOR OF ARCHITECTURE

**Freshman Year**

	No. of Course	1st Term	2d Term
Analytic Geometry and Calculus . . . . .	8	3	3
Descriptive Geometry . . . . .	9	3	—
History of Architecture . . . . .	10	3	3
Elements of Architecture . . . . .	11	2	4
Free-hand Drawing . . . . .	12	3	3
Shades and Shadows . . . . .	13	1	—
Water Color Painting . . . . .	14	—	2
Masonry Construction . . . . .	15	—	2
Building Stones and Clay Products . . . . .	30 (Arts)2		—
*Physical Training (3 times a week) . . . . .			
Summer Reading (See page 18) . . . . .			

**Sophomore Year (after 1913-14)**

	No. of Course	1st Term	2d Term
History of Architecture . . . . .	20	3	—
Design . . . . .	21	8	8
Drawing from the Antique . . . . .	22	1	2
Adv. Water Color Painting . . . . .	23	2	—
Perspective . . . . .	24	—	1
Historic Ornament . . . . .	25	—	2
Modeling . . . . .	26	—	2
Mechanics . . . . .	27	—	2
Stereotomy . . . . .	28	1	—
Oral Expression (Arts). . . . .	29	3	—
*Physical Training (3 times a week) . . . . .			
Summer Reading (See page 18) . . . . .			

\*Physical Training, 3 times a week, is required of all regular freshmen and sophomores. The men take the first year of this work in the department of Military Science and Tactics and the second year either in the same department or in the Department of Physical Culture as they may elect. The women take both years in the Department of Physical Culture.

**Junior Year (after 1914-15)**

	No. of Course	1st Term	2d Term
History of Painting and Sculpture . . . . .	30	1	1
Design . . . . .	31	2	—
Design . . . . .	31a	—	10
Drawing from the Antique . . . . .	32	2	—
Fire-Resisting Construction . . . . .	33	1	—
Planning of Domestic Buildings . . . . .	34	2	—
Specifications. . . . .	34a	1	—
Working Drawings . . . . .	34b	5	—
Strength of Materials . . . . .	35	3	—
Structural Design . . . . .	35a	—	5
Heating, Plumbing, and Lighting . . . . .	36	—	2

**Senior Year (after 1915-15)**

	No. of Course	1st Term	2d Term
Modern Architecture . . . . .	40	—	2
Design . . . . .	41	10	8
Design . . . . .	41a	—	4
Life Class . . . . .	42	3	—
Elective . . . . .		3	2

## COLLEGE OF ARCHITECTURE

## Sophomore Year (1913-14 only)

	No. of Course	1st Term	2d Term
History of Architecture . . . . .	10	3	—
History of Architecture . . . . .	20	—	3
Design . . . . .	21	8	8
Drawing from the Antique . . . . .	22	3	3
Masonry Construction . . . . .	23	—	2
Geology (Arts) . . . . .	30	3	—
Perspective . . . . .	24	—	1
Historic Ornament . . . . .	25	—	1
*Physical Training (3 times a week). . . . .			

## Junior Year (1913-14 and 1914-15)

	No. of Course	1st Term	2d Term
History of Painting and Sculpture . . . . .	30	1	1
Design . . . . .	31	—	10
Modeling in Clay . . . . .	32	2	—
Planning of Domestic Buildings . . . . .	34	2	—
Specifications . . . . .	34a	1	—
Working Drawings . . . . .	34b	5	—
Mechanics, Strength of Materials, etc. . . . .	35	4	5
Heating, Plumbing, and Lighting . . . . .	36	—	2
Pen and Ink Drawing . . . . .	37	2	—

## Senior Year (1913-14 to 1915-16)

	No. of Course	1st Term	2d Term
Modern Architecture . . . . .	40	—	2
Design . . . . .	41	10	8
Design . . . . .	41a	—	4
Life Class . . . . .	42	2	—
Seminary . . . . .	43	1	1
Fire-Resisting Construction . . . . .	44	—	1
Elective . . . . .		3	—

FOUR-YEAR CONSTRUCTION COURSE LEADING TO THE  
DEGREE OF BACHELOR OF ARCHITECTURE

## Freshman Year

	No. of Course	1st Term	2d Term
Analytic Geometry and Calculus . . . . .	8	3	3
Descriptive Geometry . . . . .	9	3	—
History of Architecture . . . . .	10	3	3
Elements of Architecture . . . . .	11	2	4

**Freshman Year—Continued**

	No. of Course	1st Term	2d Term
Free-hand Drawing . . . . .	12	3	3
Shades and Shadows . . . . .	13	1	—
Physics (Arts) . . . . .	1	—	4
Geology (Arts) . . . . .	30	2	—
*Physical Training (3 times a week) . . . . .			
Summer Reading (See page 18) . . . . .			

**Sophomore Year**

	No. of Course	1st Term	2d Term
Masonry Construction . . . . .	15	—	2
Design . . . . .	21	8	8
Perspective . . . . .	24	—	1
Stereotomy . . . . .	28	1	—
Mechanics (C. E.) . . . . .	20	5	5
Physics (Arts) . . . . .	6	4	—
Physics (Arts) . . . . .	14	—	2
*Physical Training (3 times a week) . . . . .			
Summer Reading (See page 18) . . . . .			

\*Physical Training, 3 times a week, is required of all regular freshmen and sophomores. The men take the first year of this work in the Department of Military Science and Tactics and the second year either in the same department or in the Department of Physical Culture as they may elect. The women take both years in the Department of Physical Culture.

**Junior Year**

	No. of Course	1st Term	2d Term
History of Architecture . . . . .	20	3	—
Antique, Water Color, or Modeling . . . . .		2	—
Planning of Domestic Buildings . . . . .	34	2	—
Specifications . . . . .	34a	1	—
Working Drawings . . . . .	34b	5	—
Structural Design (C. E.) . . . . .	71	4	4
Materials Laboratory (C. E.) . . . . .	22	—	2
Materials of Construction (C. E.) . . . . .	25	—	3
Concrete Construction (C. E.) . . . . .	77	—	3
Heating, Plumbing, and Lighting . . . . .	36	—	2
Modern Architecture . . . . .	40	—	2
Oral Expression (Arts) . . . . .	29	—	3

## Senior Year

Courses Required	No. of Course	1st Term	2d Term
Design . . . . .	31a	2	—
Design . . . . .	31	—	10
Fire-Resisting Construction . . . . .	33	1	—
Steel Buildings (C. E.) . . . . .	76	—	3

Not less than 16 hours from the following:

Wood Technology (Forestry) . . . . .	8	—	2
Political Economy (Arts) . . . . .	51	3	3
Testing Materials (C. E.) . . . . .	27	3	—
Higher Structures (C. E.) . . . . .	73	3 or	3
Masonry Foundations (C. E.) . . . . .	74	3 or	3
Reinforced Concrete (C. E.) . . . . .	72	2 or	2
Cost Keeping and Management (C. E.) . . . . .	89	2	—
Specifications and Contracts (C. E.) . . . . .	90	—	2
Engineering Design (C. E.) . . . . .	91f	3 or	3
Engineering Problems (C. E.) . . . . .	20	2 or	2

## TWO-YEAR SPECIAL COURSE IN ARCHITECTURE

This course does not lead to a degree, but a certificate will be issued upon its satisfactory completion. Where students are prepared to do advanced work the course will be arranged, within the limits of the curriculum, to meet special cases.

## First Year

	No. of Course	1st Term	2d Term
History of Architecture . . . . .	10	3	3
Design . . . . .	21	8	8
Free-hand Drawing . . . . .	12	3	3
Descriptive Geometry . . . . .	9	3	—
Shades and Shadows . . . . .	13	1	—
Perspective . . . . .	24	—	1
Water Color Painting . . . . .	14	—	2

## Second Year

	No. of Course	1st Term	2d Term
History of Architecture . . . . .	20	3	—
Design . . . . .	41	10	8
Design . . . . .	41a	—	4
Drawing from the Antique . . . . .	22	3	3
Modeling in Clay . . . . .	32	2	—
Modern Architecture . . . . .	40	—	2

### FIVE-YEAR AND SIX-YEAR COURSES

In the arrangement of five-year and six-year courses, so much depends upon the preparation and special requirements of the student that it has been found best to arrange these courses to meet individual needs. In the main, however, the five-year course for the degree of Bachelor of Architecture must include all of the work of the regular four-year course or of the four-year construction course, and further elective work in the College of Arts and Sciences or in engineering; and the six-year courses for two degrees must include three years of work in architecture and three years of work in the College of Arts and Sciences or in the College of Civil Engineering, arranged and completed to the satisfaction of the colleges concerned.

### COURSES OF INSTRUCTION

1a. **Elementary Free-hand Drawing.** Throughout the year, credit two hours a term. Mr. GUTSELL and Mr. CHAMBERLAIN. M W, M F, or W F, 2-5, Franklin Hall.

1b. **Elementary Free-hand Drawing.** Throughout the year, credit three hours a term. Mr. GUTSELL and Mr. CHAMBERLAIN. M W F, 2-5, Franklin Hall.

2a. **Advanced Free-hand Drawing.** Throughout the year, credit two hours a term. Prerequisite course 1b or its equivalent. Mr. GUTSELL and Mr. CHAMBERLAIN. M W, M F, or W F, 2-5, Franklin Hall.

2b. **Advanced Free-hand Drawing.** Throughout the year, credit three hours a term. Prerequisite course 1b or its equivalent. Mr. GUTSELL and Mr. CHAMBERLAIN. M W F, 2-5, Franklin Hall.

*Note*—The above courses in drawing are offered to all students in the University for election under such conditions as their respective faculties may prescribe.

8. **Analytic Geometry and Calculus.** Throughout the year, credit three hours a term. Given in the College of Arts and Sciences by Dr. HURWITZ. White Hall 5. First term at 8 and second term at 9. Section 1, M W F, Section 2, T Th S.

9. **Descriptive Geometry.** First term, credit two hours; second term, credit one hour. Assistant Professor YOUNG and Mr. BAXTER. White Hall. The fundamental problems of Descriptive Geometry are studied and applied in the solution of problems in architecture. Lectures and drawing five to six hours a week.

10. **History of Architecture.** Throughout the year, credit three hours a term. Professor PHELPS. White Hall. First term: Egyptian, Greek, Roman, and Byzantine architecture. Second term: Romanesque and Gothic architecture. Lectures with assigned readings and examinations.

11. **Elements of Architecture.** Throughout the year, credit three hours a term. Mr. COMSTOCK. White Hall. The classic orders of architecture and elementary studies in composition, with drawings rendered in India ink and in water color. Nine hours a week.

12. **Free-hand Drawing.** Throughout the year, credit three hours a term. Mr. GUTSELL and Mr. CHAMBERLAIN. Franklin Hall. Pencil and charcoal drawing from the cast, and free-hand perspective. Nine hours a week.

13. **Shades and Shadows.** Beginning about Nov. 15th and continuing throughout the year, credit one hour a term. This course must follow or be accompanied by Descriptive Geometry. Professor MARTIN and Mr. COMSTOCK. White Hall. Lectures and drawing.

14. **Water Color Painting.** Second term, credit two hours. Prerequisite course 12. Assistant Professor MIDJO. Franklin Hall. Painting from still life groups and out-door sketching. Six hours a week.

15. **Masonry Construction.** Second term, credit two hours. Professor MARTIN. White Hall. Lectures and recitations, supplemented by drawing and by inspection of actual work.

20. **History of Architecture.** First term, credit three hours. Prerequisite course 10. Professor PHELPS. White Hall. Architecture of the Renaissance and to the beginning of the nineteenth century in the principal European countries. Lectures with assigned readings and examinations.

21. **Design.** Throughout the year, credit eight hours a term. Prerequisite courses 11 and 13. Assistant Professor BOSSANGE. White Hall. A series of problems in architectural design, composition, planning, studies in detail, rendering, etc., requiring about twenty-four hours a week.

22. **Drawing from the Antique.** Throughout the year, credit one hour first term and two hours second term. Prerequisite course 12. Professor BRAUNER and Assistant Professor MIDJO. Franklin Hall. Work from the cast in charcoal and pastel. Three hours a week drawing for each credit hour (see course 23).



23. **Advanced Water Color Painting.** First term, credit two hours. Prerequisite course 14, Assistant Professor MIDJO. Franklin Hall. This course is given in conjunction with course 22 and will require nine hours a week for two-thirds of the term, while course 22 will require nine hours a week for one-third of the term. Given with special reference to architectural rendering.

24. **Perspective.** Second term, credit one hour. Prerequisite courses 9 and 11. Professor MARTIN and Mr. BAXTER. White Hall. Lectures and drawing.

25. **Historic Ornament.** Second term, credit two hours. Prerequisite courses 10 and 20. Professor PHELPS. White Hall. Some of the great historic styles of decoration will be analyzed and studied in detail and the development of furniture, stained glass, and other minor arts will be briefly outlined. Lectures and examinations.

26. **Modeling.** Second term, credit two hours. Assistant Professor MIDJO. Franklin Hall. Six hours a week modeling in clay from relief ornament and sculpture, and modeling original designs in relief and the round.

27. **Mechanics.** Second term, credit two hours. Assistant Professor Young. A brief study of the principles of pure mechanics with reference to their application in course 35, including elementary graphic statics. Recitations.

28. **Stereotomy.** First term, credit one hour. Prerequisite course 9. Assistant Professor YOUNG and Mr. BAXTER. Advanced projective drawing given with special reference to the proper working out of the more complex architectural constructions, such as stone vaulting, stone stairs, etc.

29. **Oral Expression.** First term, credit three hours. Given in the College of Arts and Sciences by Professor ———. While other forms of address will not be ignored, the emphasis in this course will be upon training for the clear and convincing interpretation of drawings or plans for important projects as they might be presented before building committees, city councils, civic societies, etc. Problems for discussion will be taken from the daily work of the students.

30 (Arts). **Building Stones and Clay Products.** First term, credit two hours or three hours as below. Given in the College of Arts and Sciences by Professor RIES and Messrs. MACKENZIE and ———. Lectures T Th 9. Laboratory either W or F 2-4:30. McGraw Hall. In 1913-14 Sophomores will take lectures and

laboratory for three hours credit. Freshmen will take lectures with an occasional laboratory period for two hours credit. The occurrence, distribution, and uses of building stones, and the use of clay for structural products.

30. **History of Painting and Sculpture.** Throughout the year, credit one hour a term. Professor PHELPS. White Hall. A brief survey of the history of Greek sculpture and Italian painting.

30a. **History of Art in Italy.** Throughout the year, credit two hours a term. Mr. GUTSELL. White Hall 33. The condition of the arts on the decline of Roman civilization. The revival of the arts of design in the thirteenth century. The development of painting and sculpture until the sixteenth century and a brief review of their decline. Will be given in 1913-14 and in alternate years following.

30b. **Art North of the Alps.** Throughout the year, credit two hours a term. Mr. GUTSELL. A survey of the beginnings of art in the Germanic communities. Painting, engraving and woodcutting. The Flemish and Dutch masters of the sixteenth and seventeenth centuries. Courses 30a and 30b are given in alternate years. Given in 1914-15 and in alternate years following. Not given in 1913-14.

31. **Design.** First term, credit two hours. Prerequisite course 21. Professor MAUXION. White Hall. A series of short time problems in the planning of buildings and groups of buildings. Emphasis is placed on a sound solution of the problems rather than on presentation. Six hours a week drawing and criticism.

31a. **Design.** Second term, credit ten hours. Prerequisite course 21. Professor MAUXION and Assistant Professor BOSSANGE. White Hall. This course continues the work of course 21 with more advanced problems in architectural design, composition, and planning. About thirty hours a week.

32. **Drawing from the Antique.** First term, credit two hours. Prerequisite course 22. Professor BRAUNER and Assistant Professor MIDJO. Franklin Hall. The work consists of drawing from antique sculpture and from life. Six hours a week.

33. **Fire-Resisting Construction.** Second term, credit one hour. Professor MARTIN. White Hall. A study of the development, methods, and details of modern fire-resisting construction. Lectures with supplementary reading.

34. **Planning of Domestic Buildings.** First term, credit two hours. Prerequisite course 21. Professor MARTIN and Assistant

Professor BOSSANGE. White Hall. Four lectures and about twenty hours drafting a week during the early part of the term. The work will include a systematic and analytical study of house planning with special reference to American conditions.

34a. **Specifications.** First term, credit one hour. Prerequisite course 34. Professor MARTIN. White Hall.

34b. **Working Drawings.** Latter part of first term, credit five hours. Prerequisite course 34. Professor MARTIN and Assistant Professor BOSSANGE. White Hall. Courses 34a and 34b continue the work of course 34 by the study of specifications and ordinary methods and details of construction, with the preparation of one-quarter inch scale working drawings and typical full size details for a house designed by the student himself under such limiting conditions as a client would be likely to impose.

35. **Strength of Materials.** First term, credit three hours. Prerequisite course 27. Assistant Professor YOUNG and Mr. BAXTER. A brief study of the effects of loading in producing stress and deformation. The class room work is supplemented by problems relating to beams, columns, masonry, and very briefly to reinforced concrete. Graphic statics is continued from course 27 and applied to the solution of problems. Recitations and Lectures.

35a. **Structural Design.** Second term, credit five hours. Prerequisite courses 27 and 35. Assistant Professor YOUNG and Mr. BAXTER. The principles studied in Courses 27 and 35 are applied to the structural design of typical architectural problems. Lectures and reports.

36. **Heating, Plumbing and Lighting.** Second term, credit two hours. Professor MARTIN and Assistant Professor YOUNG. A brief study of the principles of heating, ventilation, plumbing, and lighting. Lectures and practical problems.

40. **Modern Architecture.** Second term, credit two hours. Prerequisite courses 10 and 20. Professor PHELPS. Nineteenth century architecture in the principal European countries, and colonial and more recent work in the United States.

41. **Design.** Throughout the year, credit ten hours first term, and eight hours second term. Prerequisite courses 21 and 31. Professor MAUXION. White Hall. This course is a continuation of courses 21 and 31 with advanced problems in architectural design, composition, planning, etc. Thirty to thirty-six hours a week.

41a. **Design.** Second term, credit four hours. Professor MAUXION. White Hall. Prerequisite course 41. A continuation

of course 41 consisting of a single major problem studied and worked up in detail as a thesis problem.

**42. Life Class.** Throughout the year, credit three hours first term and two hours second term. First term required, second term elective. Professor BRAUNER and Mr. CHAMBERLAIN. Franklin Hall. Drawing from the nude model. Three hours a week for each credit hour.

**43a. Historical Seminary.** Throughout the year, credit one hour a term. Prerequisite courses 10 and 20. Professor PHELPS. White Hall. Investigation of assigned topics in the history of architecture; reviews of books, abstracts and discussions of current periodical literature.

### COURSES IN ENGINEERING

In the four-year Construction Course the following subjects not herein described are indicated either as required or as elective in this course: Mechanics 20, Structural Design 71, Materials Laboratory 22, Materials of Construction 25, Concrete Construction 77, Steel Buildings 76, Testing Materials 27, Higher Structures 73, Masonry Foundations 74, Reinforced Concrete 72, Cost Keeping and Management 89, Specifications and Contracts 90, Engineering Design 91f, and Engineering Problems 20. These subjects are given in the College of Civil Engineering and are described in detail in the Announcement of the College of Civil Engineering which may be had upon application to the Secretary of Cornell University, Ithaca, New York.

### SUMMER READING

In addition to the regular studies of the Freshman and Sophomore years the students are required to read, during the summer recess, books of their own selection from grouped lists. The book lists are prepared and one or more introductory lectures given each year, just before the summer recess, by one of the professors in the Department of English in the College of Arts and Sciences.

### BUILDINGS, EQUIPMENT, ETC.

The College occupies the entire third and fourth floors of White Hall and the top floor of Franklin Hall immediately adjacent. The main offices, library, lecture and exhibition rooms, etc., are on the third floor of White Hall, while the entire fourth floor consists of a suite of three drafting rooms opening together in such a way as to make practically one great room approximately forty feet wide

and one hundred and fifty-six feet long. These rooms, while making no pretense to architectural beauty, having been designed for other use when the University was yet young, are open, airy, comfortable at all times, and above all are thoroughly well lighted for both day and night work, a matter of supreme importance in work requiring such constant use of the eyes. In these rooms, which are open from 8 a. m. to 10:30 p. m., each student has his own place to which he may come at any time. Here all students in the College from freshmen to graduates work together, and from the beginning the younger men are inspired by the work of the older ones who exercise a most wholesome influence over them.

The special reference library, only a step from the drafting rooms and offices, is one of the most complete of its kind; and all books, photographs, etc., are directly accessible to the students who have full freedom to go directly to the shelves and to take books and photographs to the drafting rooms with the least possible formality, a privilege of inestimable value in their work. The shelves and cases hold some thousands of photographs, the current numbers of more than thirty technical periodicals, and practically all of the important books in the field of architecture, besides some nine thousand lantern slides for use in the lecture courses.

For reference and inspiration in the technique of drawing and rendering in architectural design, there is a fine collection of rendered drawings made by the recognized masters in the art, and a very large and growing collection of selected drawings made by former students in the college.

The two large exhibition rooms in White Hall, while occasionally used for general art exhibitions, have their most important use in regular work of the college, especially in the work in design. Whenever a problem is finished the drawings are immediately hung, judged by the Faculty, discussed and criticized before the class by the professor in charge of the work, and remain on public exhibition until the rooms are required for the next problem. The stimulus to serious effort furnished by the consciousness on the part of the students of the inevitable public criticism, and the opportunity for free comparison and discussion among themselves of the various solutions are pedagogically very valuable.

The entire upper floor of Franklin Hall, about seven thousand five hundred square feet of floor space, is devoted to the work in free-hand drawing, life class, modeling, still life painting, etc. The studios here are lighted from the north through large mansard

skylights that give an abundance of steady even light throughout the day, and here again the students work together in the same spirit of freedom and friendly competition that characterizes the work in design and that sets a standard not obtainable in any other way. The equipment for this work is of the best and consists in the main of a very large and complete collection of casts from the best periods of the sculptor's art, and an excellent collection of pottery, faience, textiles, etc.

In any profession involving so much of sentiment and feeling as does architecture, spirit and environment are important influences. The student must begin with at least a certain amount of enthusiasm, breadth of view, and an innate feeling for the beautiful. Given these qualities it remains for the college to supply as far as it may the intellectual, moral, and esthetic training requisite for the practice of architecture. This it does partly by means of equipment already described, but mainly through the quality and character of the instruction. Throughout the course the instruction is personal elbow to elbow work that calls forth the best there is in both instructor and pupil. The aim is always to develop the personality of the pupil, to make of him a creative artist, master of his own powers, rather than merely a clever draftsman picturing the ideas of one greater than himself. Add to this the fact that the natural environment of the University, with its hills, gorges, and lake, is one of the most beautiful anywhere in the world and conditions for wholesome, inspiring development are well nigh ideal.



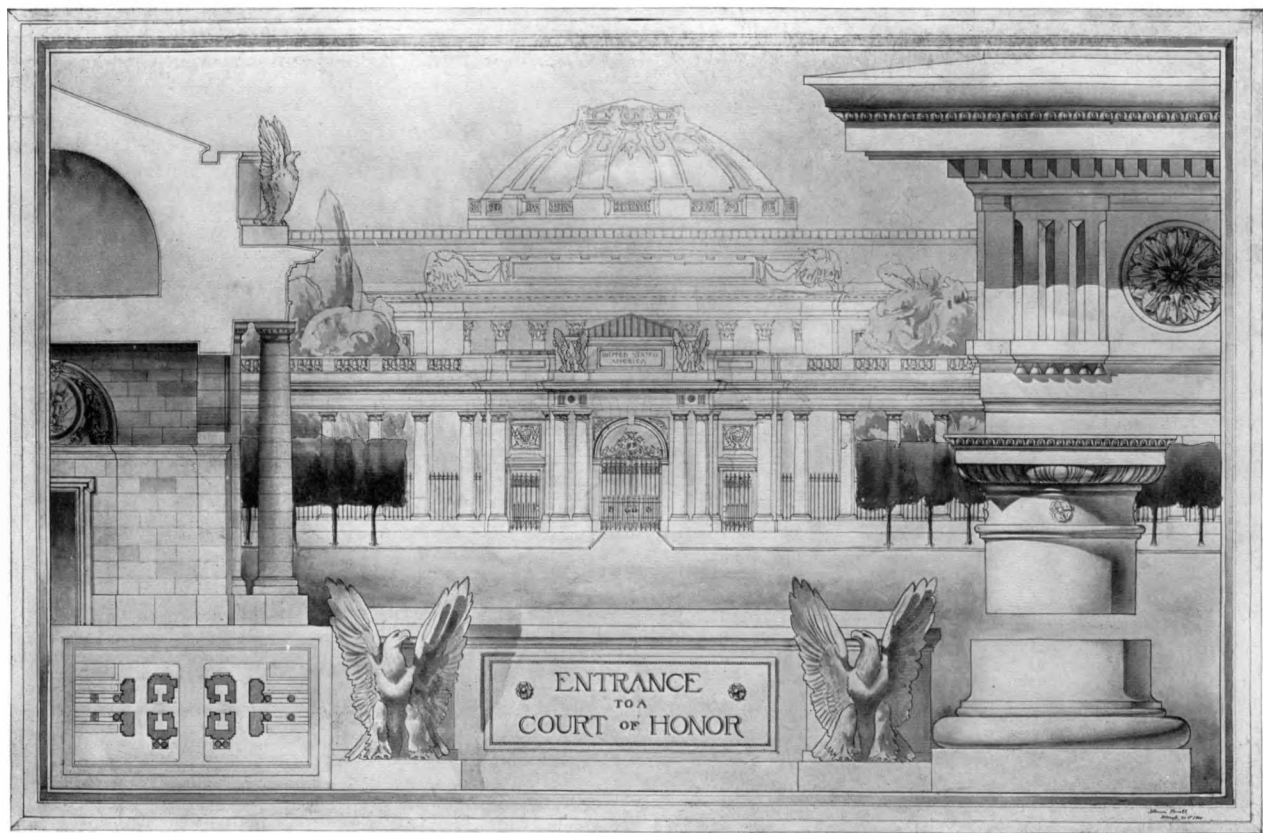
FREE-HAND DRAWING STUDIO



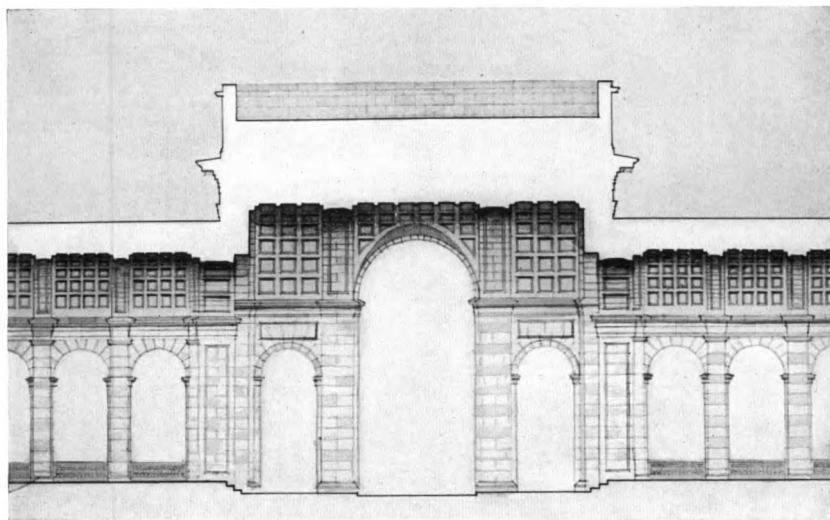
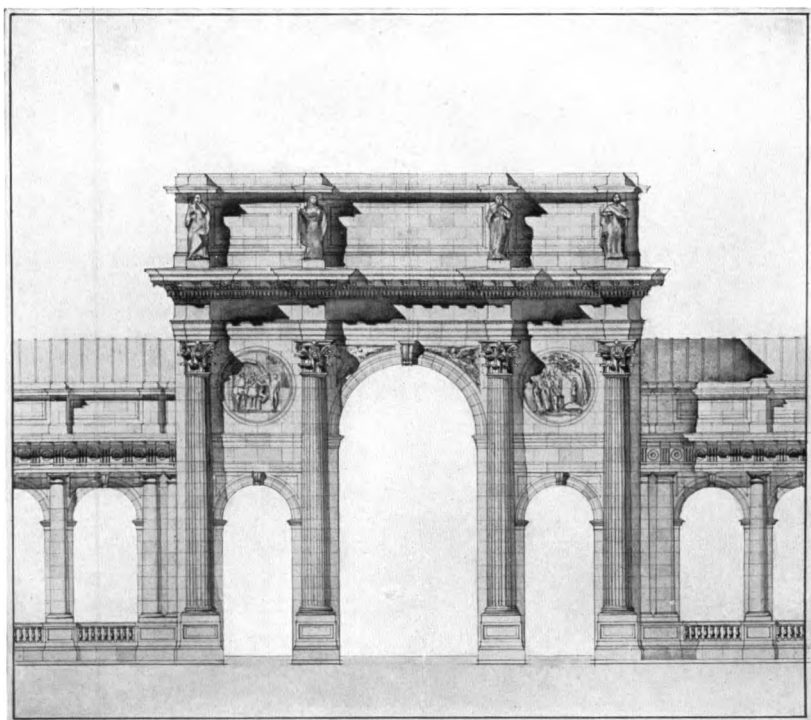
MAIN DRAWING ROOM



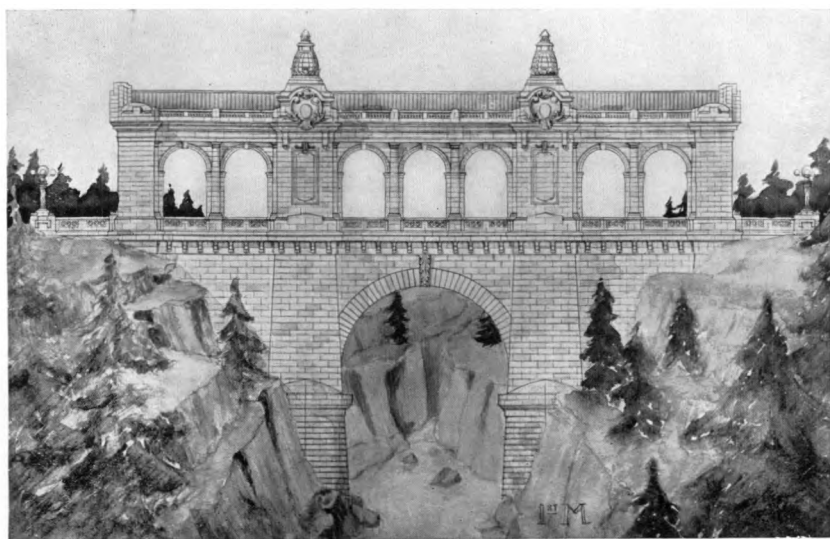
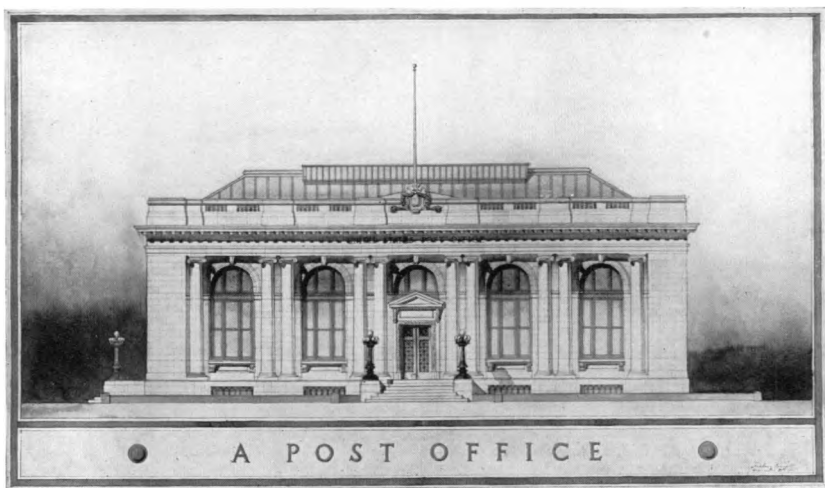
SOME ILLUSTRATIONS FROM  
CURRENT WORK DONE BY  
STUDENTS IN THE COLLEGE



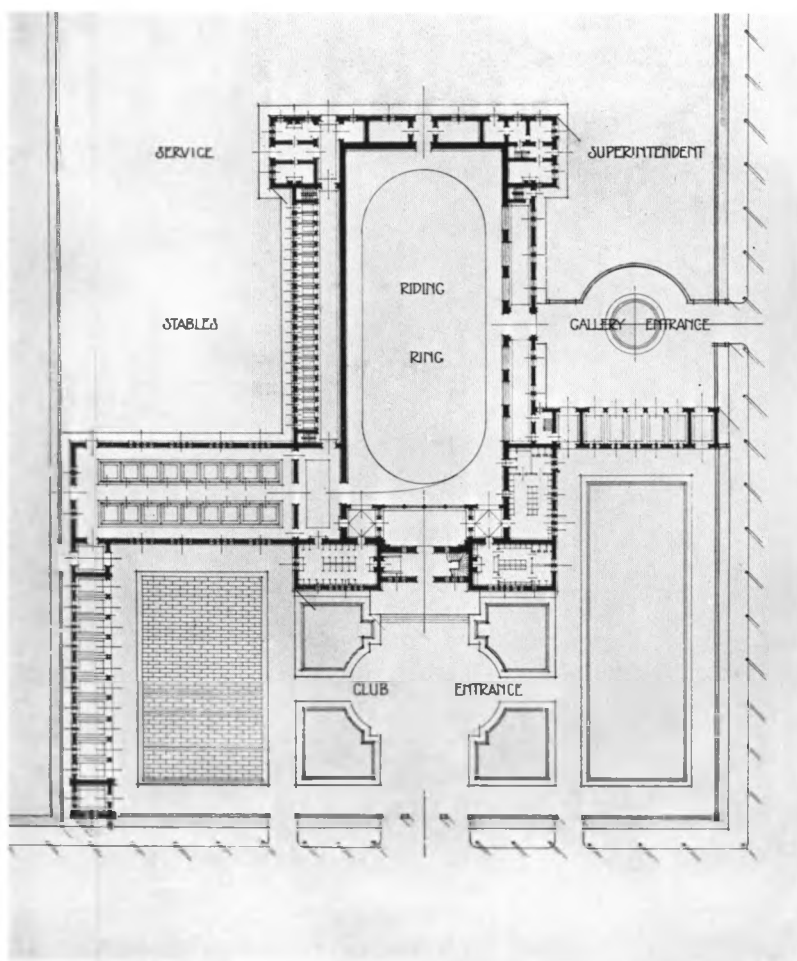
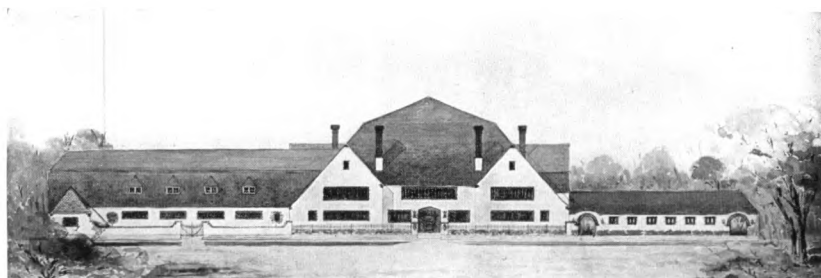
FRESHMEN DRAWING IN ELEMENTS OF ARCHITECTURE



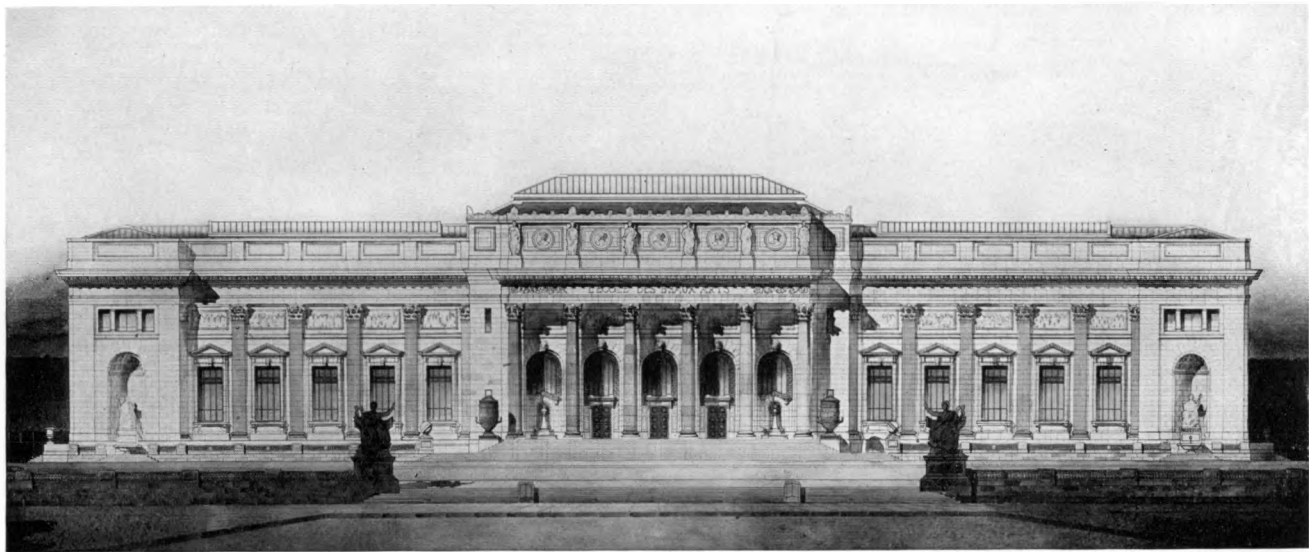
SOPHOMORE DESIGN  
AN ENTRANCE TO A COURT OF HONOR



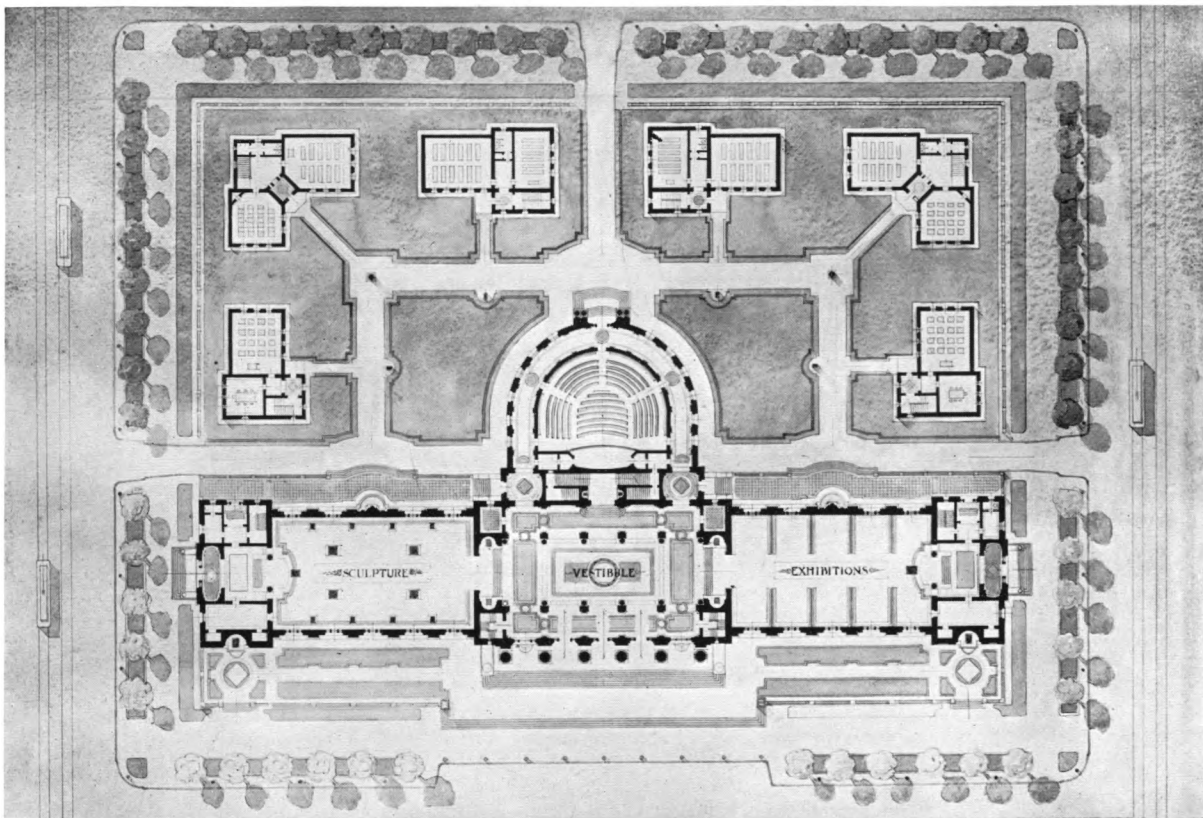
SOPHOMORE DESIGN  
A POST OFFICE AND A MONUMENTAL BRIDGE



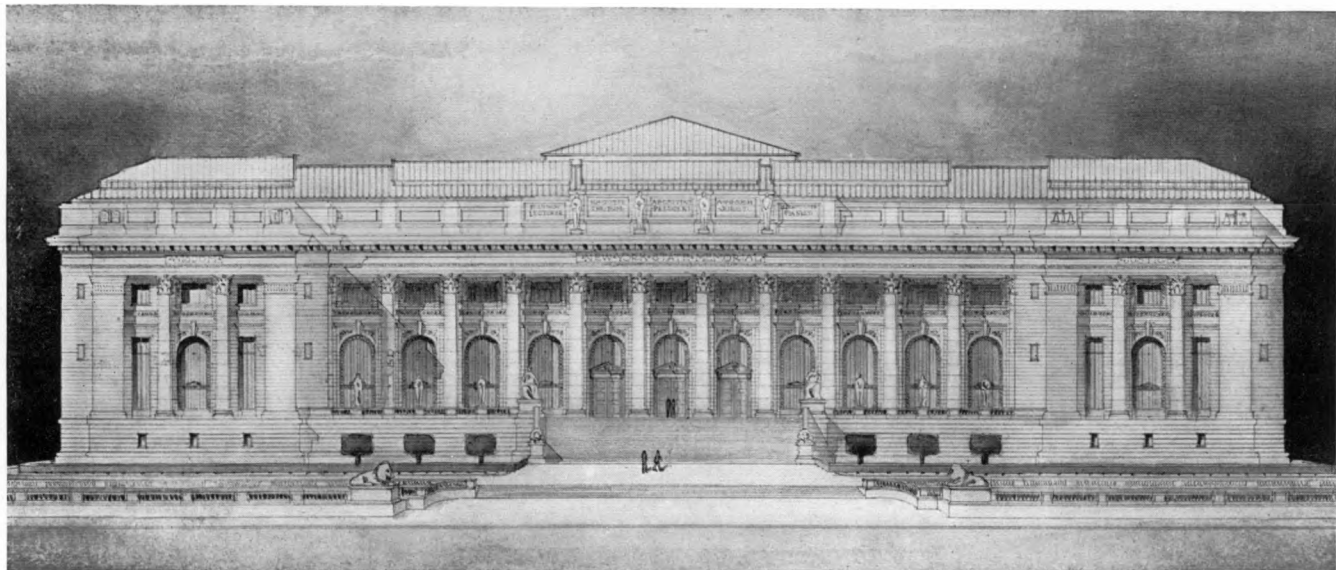
JUNIOR DESIGN  
A RIDING ACADEMY IN THE COUNTRY



JUNIOR DESIGN  
A SMALL SCHOOL OF FINE ARTS—ELEVATION

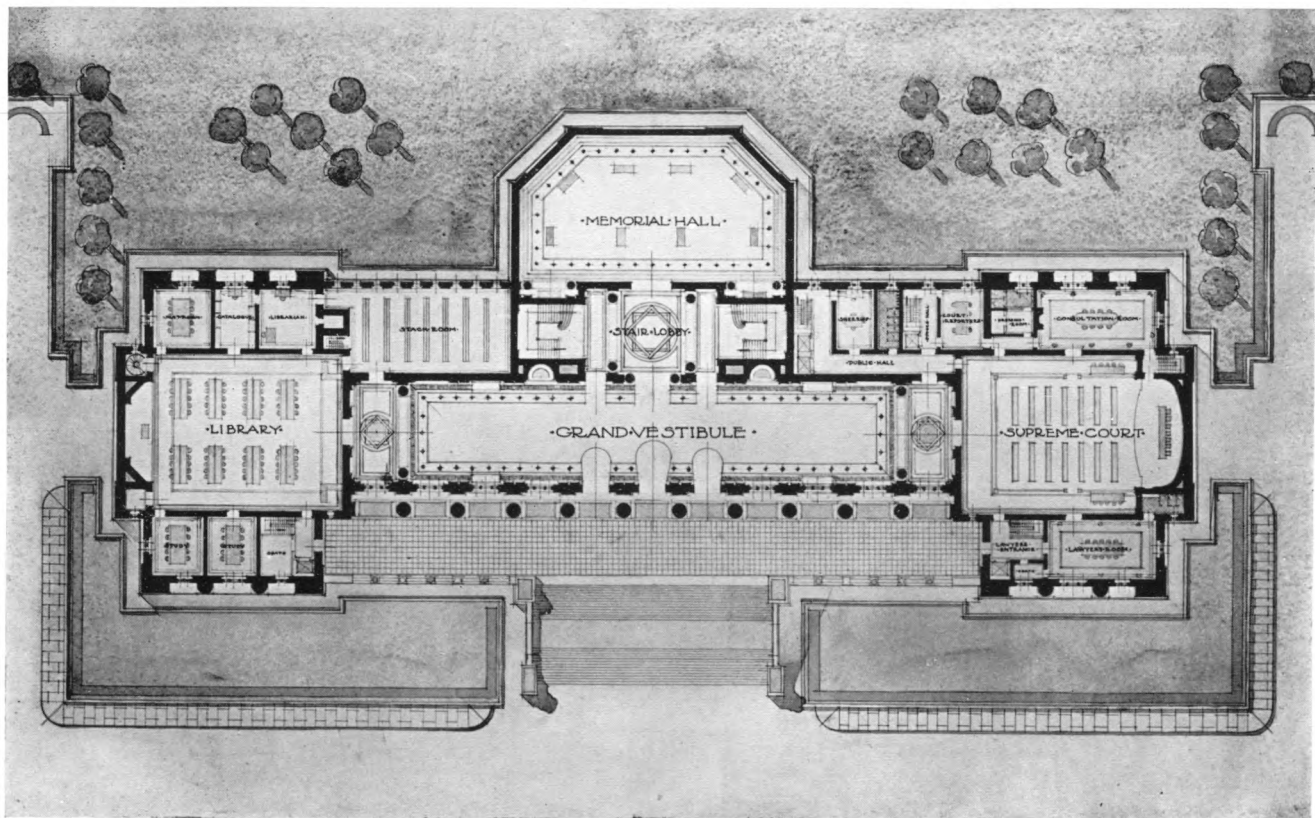


JUNIOR DESIGN  
A SMALL SCHOOL OF FINE ARTS—PLAN

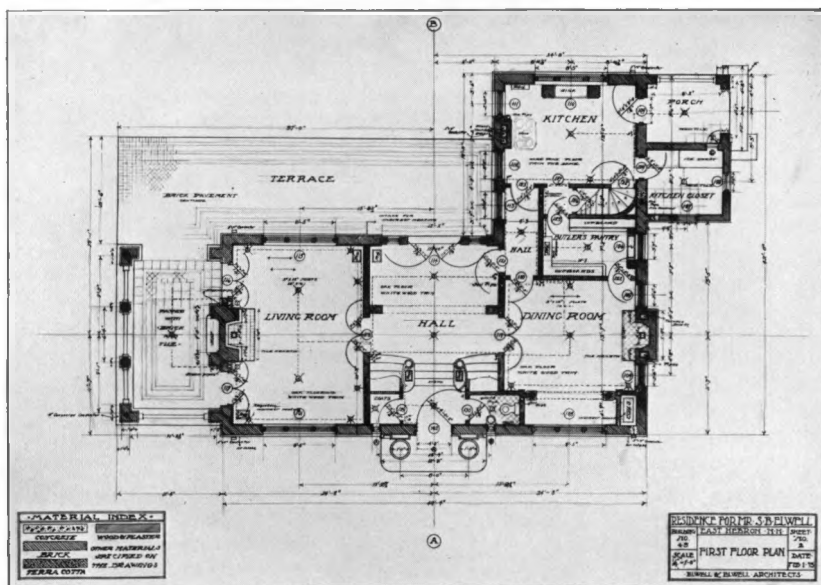
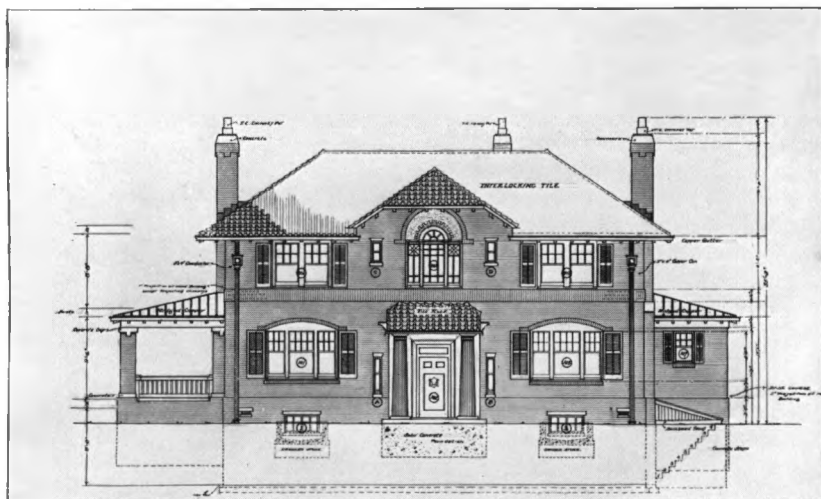


SENIOR DESIGN  
BUILDING FOR A SUPREME COURT AND LIBRARY—ELEVATION

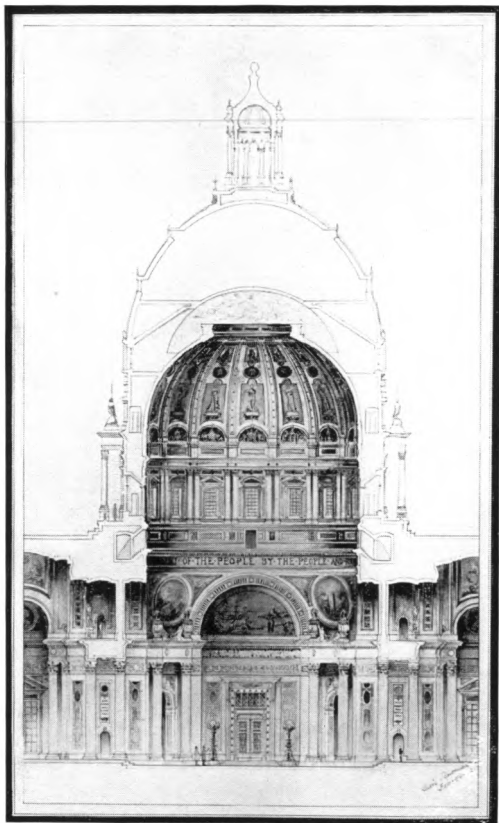
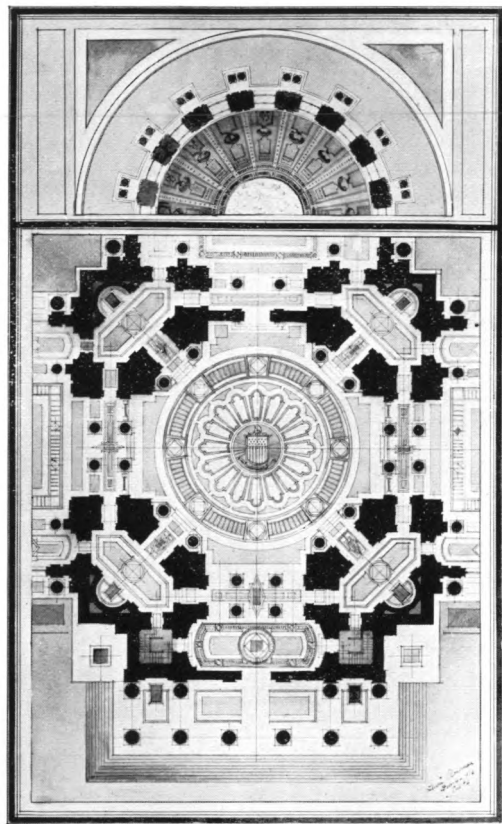




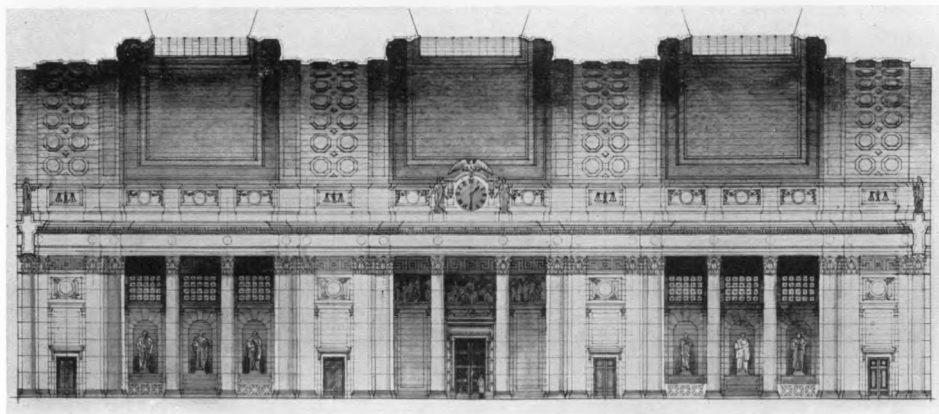
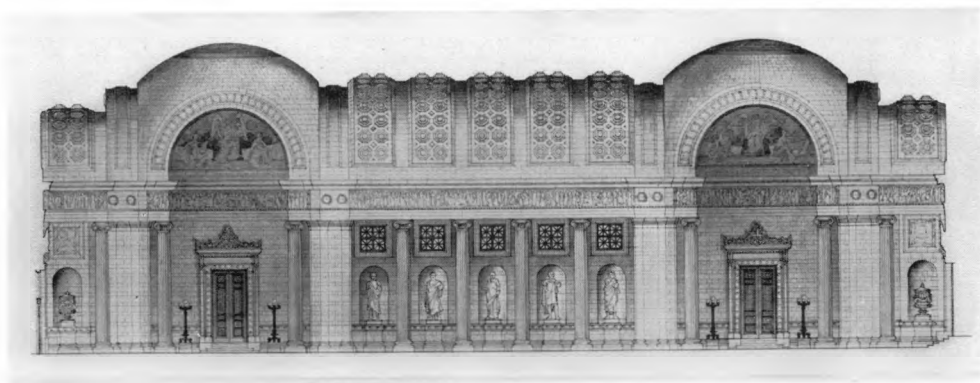
SENIOR DESIGN  
BUILDING FOR A SUPREME COURT AND LIBRARY—PLAN



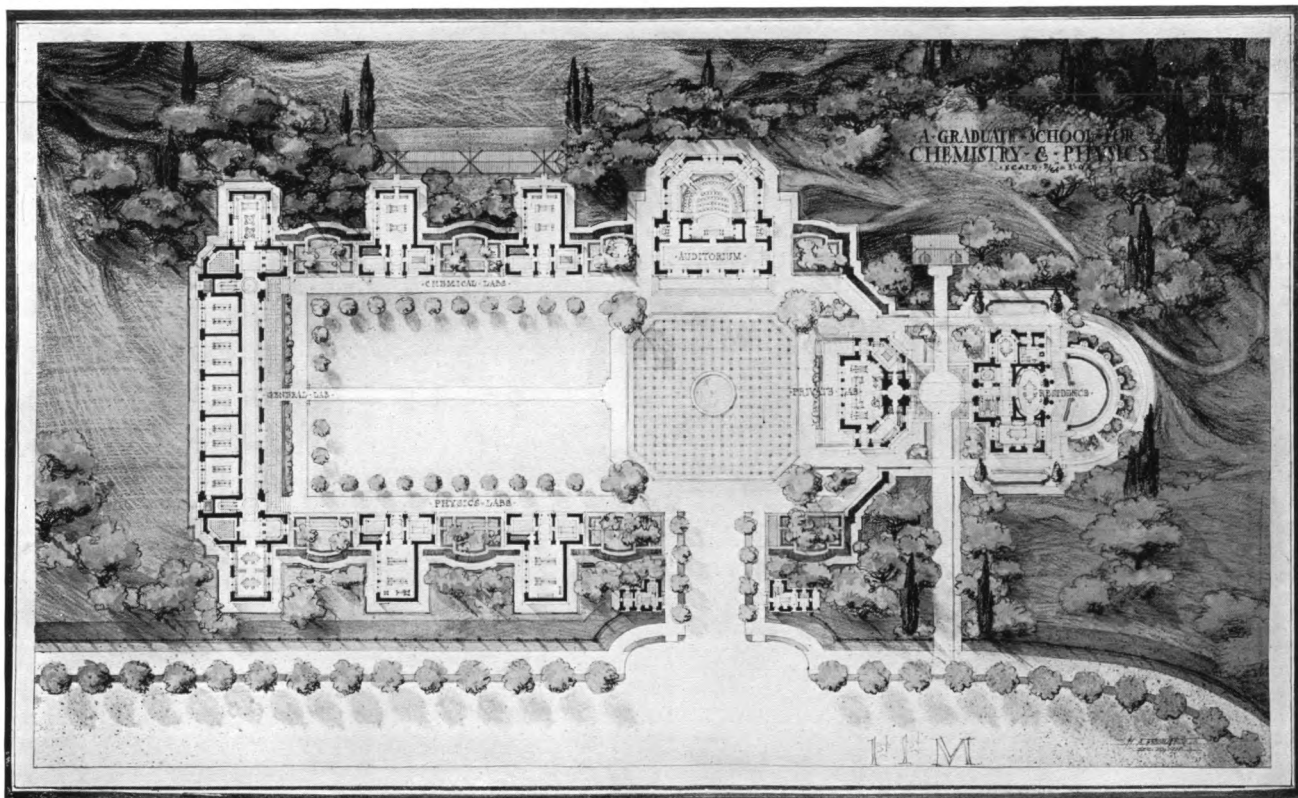
## JUNIOR CONSTRUCTION WORKING DRAWINGS



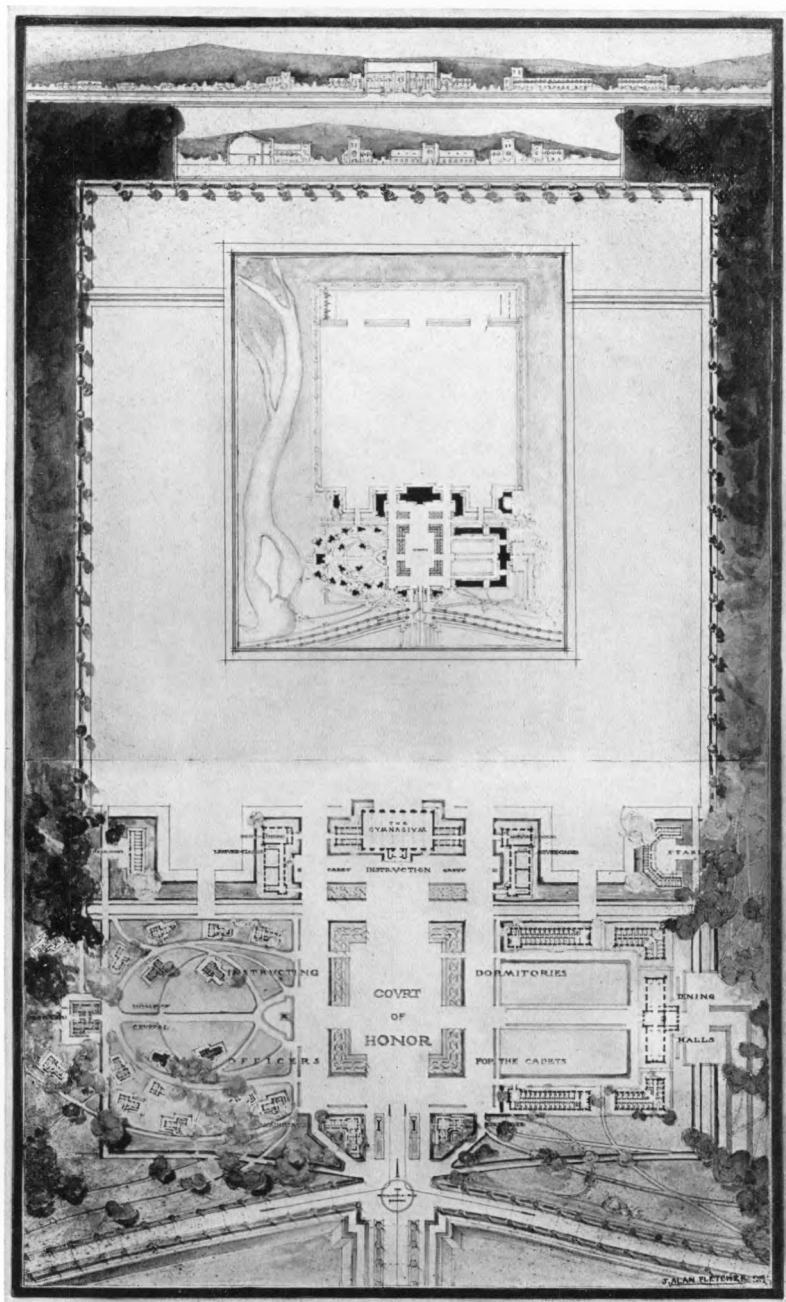
SENIOR DESIGN  
A ROTUNDA IN A STATE CAPITOL BUILDING



SENIOR DESIGN  
TWO DESIGNS FOR A VESTIBULE OF A COURT HOUSE.

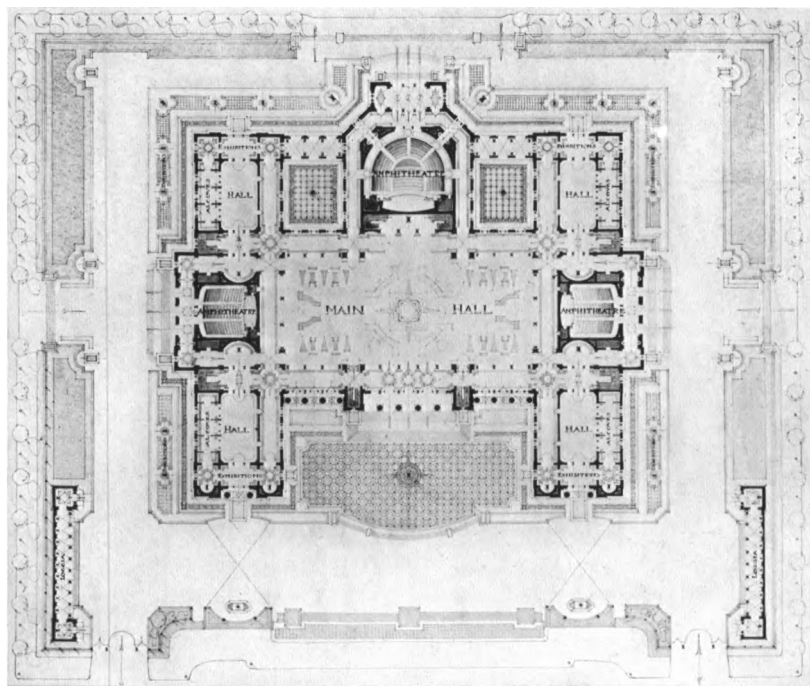
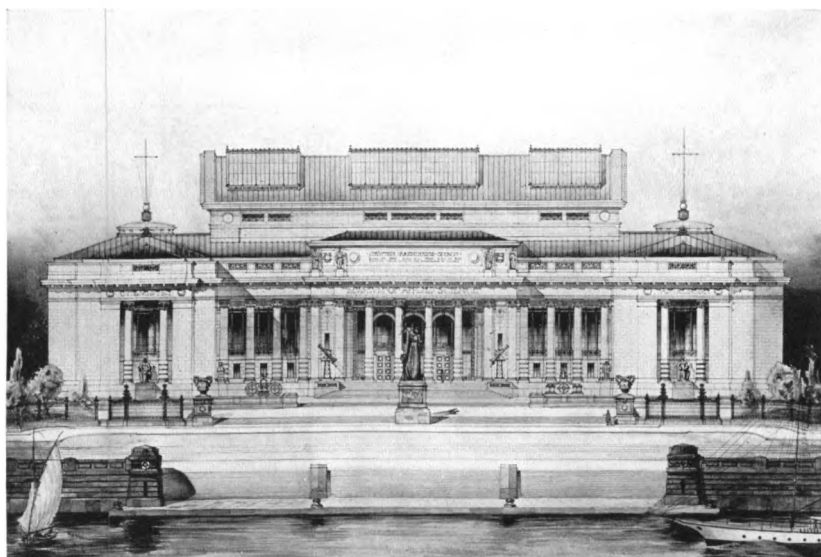


SENIOR DESIGN  
GENERAL PLAN FOR A GRADUATE SCHOOL OF CHEMISTRY



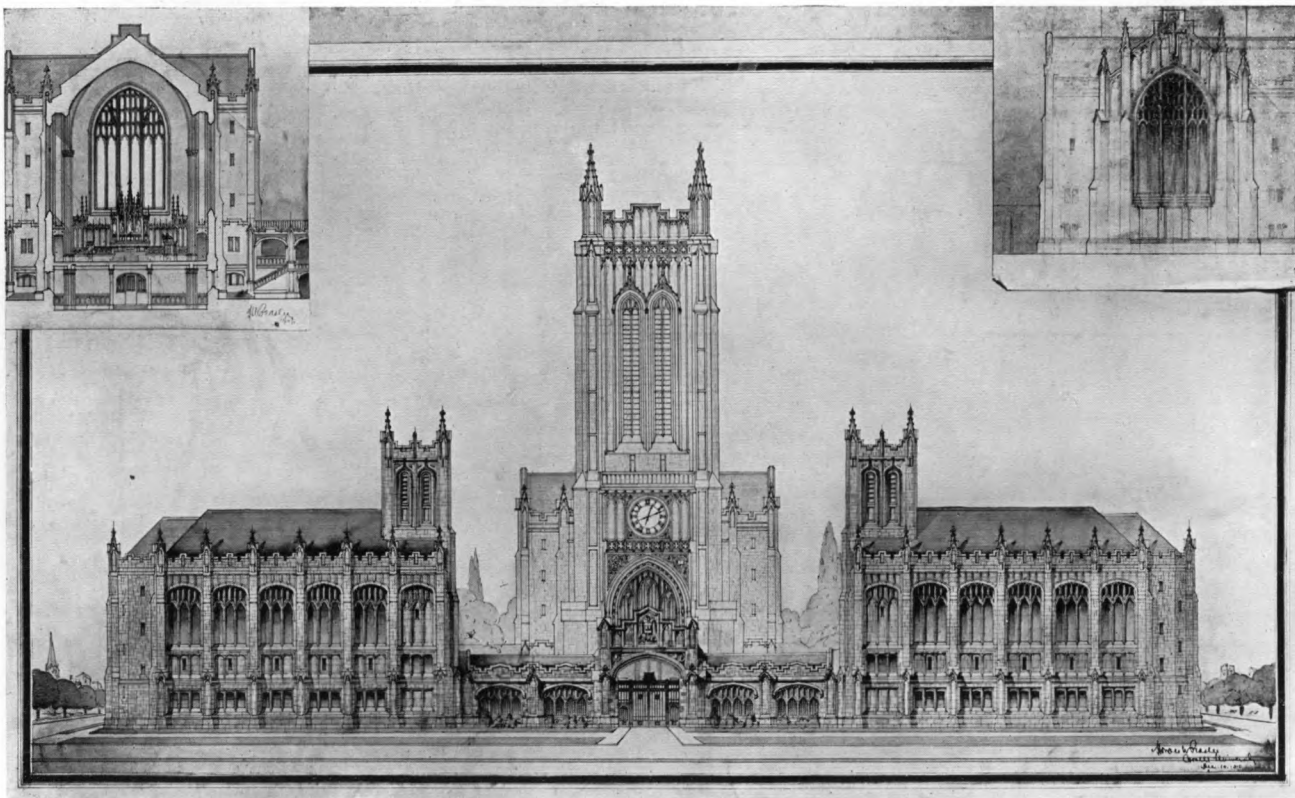
# SENIOR DESIGN

## GENERAL PLAN FOR A SMALL MILITARY ACADEMY



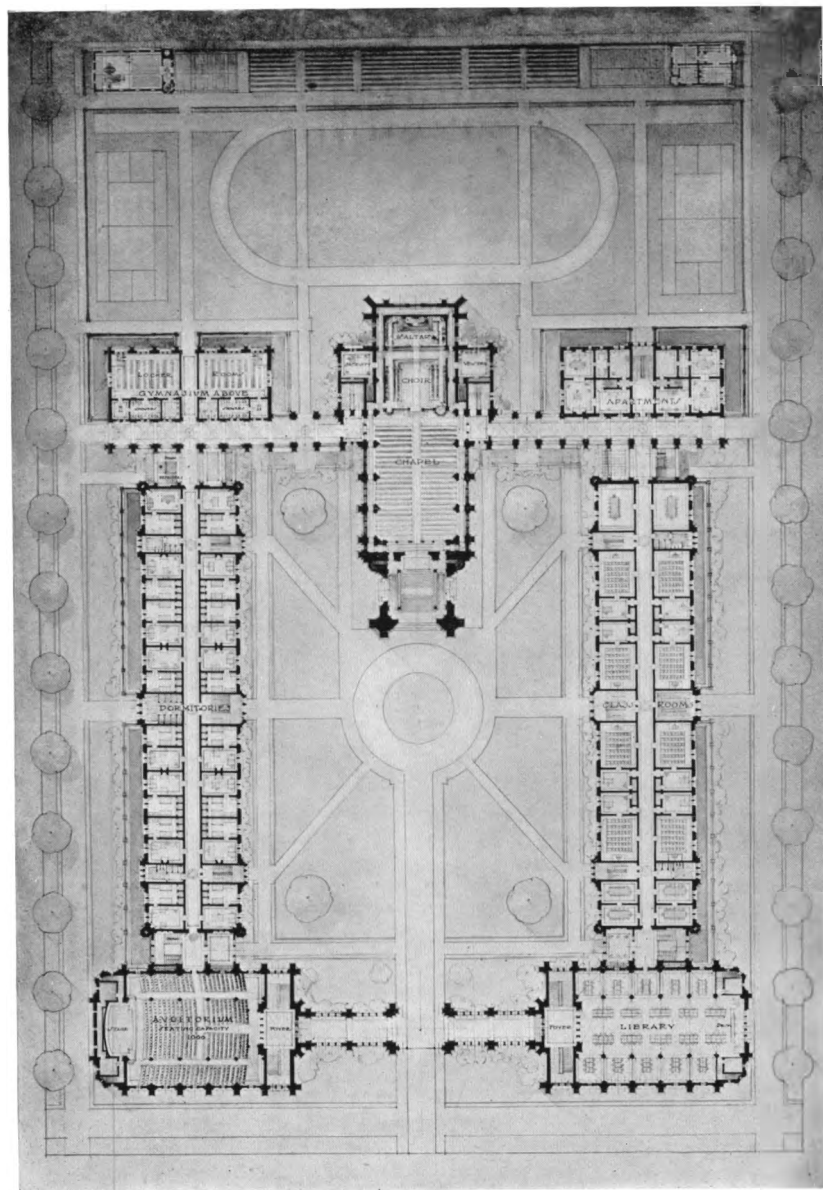
SENIOR DESIGN  
A MUSEUM OF APPLIED SCIENCE



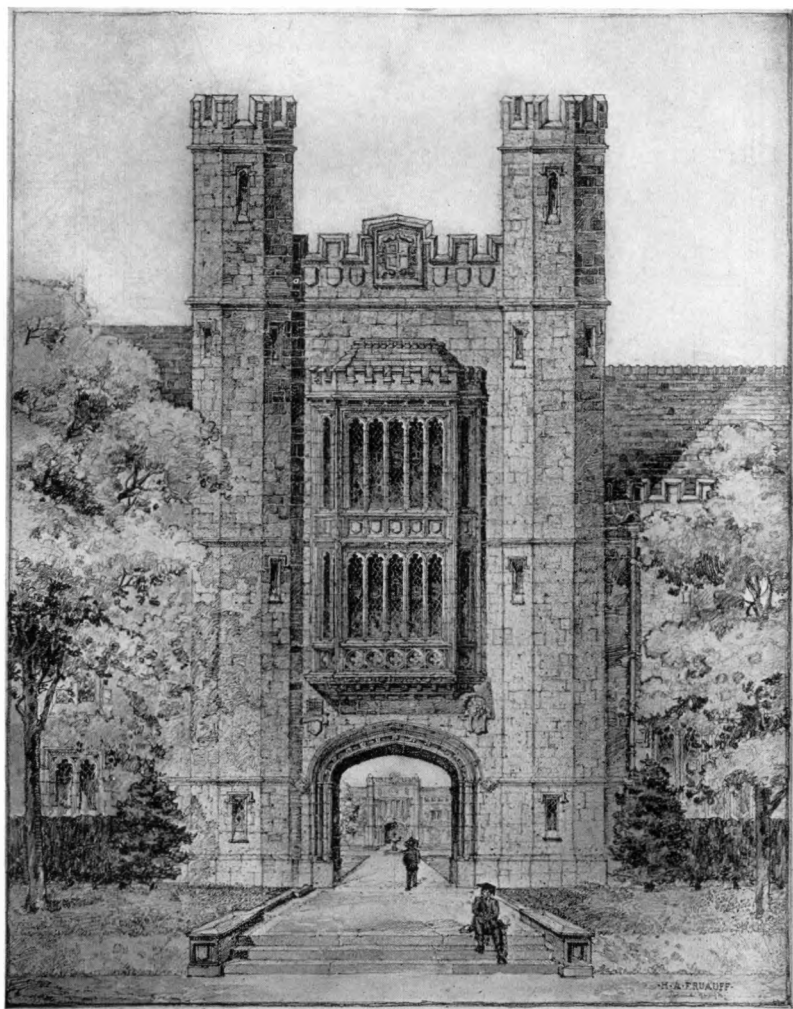


SENIOR DESIGN  
A THEOLOGICAL SEMINARY—ELEVATION

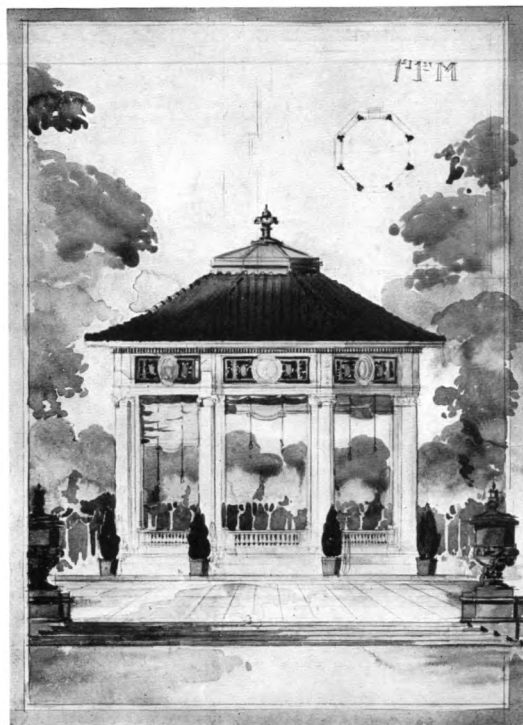




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A THEOLOGICAL SEMINARY—PLAN



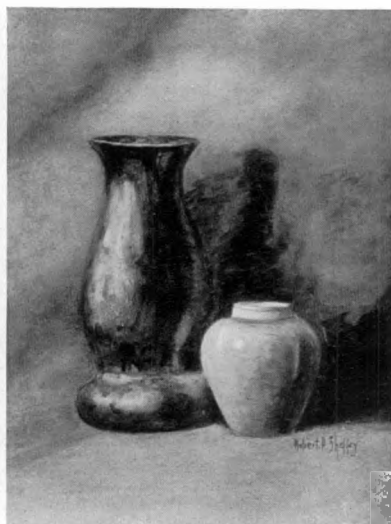
SENIOR DESIGN  
ENTRANCE TO A COLLEGE QUADRANGLE



SENIOR DESIGN  
ONE DAY SKETCHES

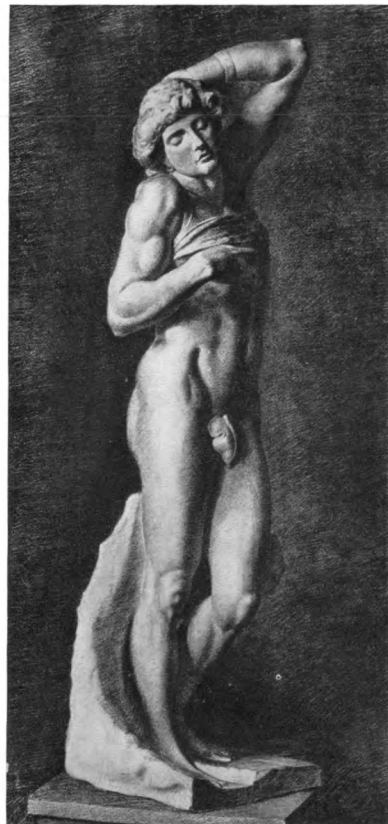


CLAY MODELING FROM THE CAST

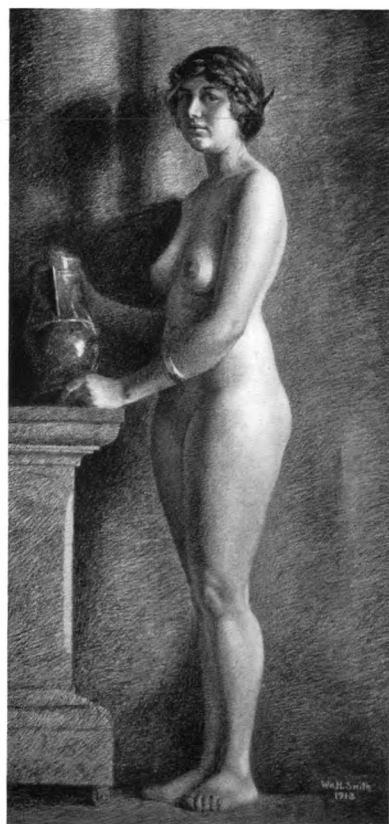
CLAY MODELING, ORIGINAL DESIGN  
EXECUTED IN THREE HOURSWATER COLOR DRAWING  
FIRST YEAR WORK



SENIOR DRAWING  
FROM LIFE



SOPHOMORE DRAWING  
FROM THE ANTIQUE



SENIOR DRAWING  
FROM LIFE







## OFFICIAL PUBLICATIONS OF CORNELL UNIVERSITY

Issued at Ithaca, New York, monthly from July to November inclusive, and semi-monthly from December to June inclusive.

[Entered as second-class matter, August 31, 1910, at the post-office at Ithaca, N. Y., under the Act of July 16, 1894.]

These publications include

Catalogue Number (containing lists of officers and students), price 25 cents,  
Book of Views, price 25 cents,

Directory of Faculty and Students, Second Term, 1913-14, price 10 cents,  
and the following informational publications, any one of which will be  
sent gratis and post-free on request. The date of the last edition of  
each publication is given after the title.

General Circular of Information for Prospective Students, December 15, 1912.

Announcement of the College of Arts and Sciences, May 15, 1913.

Announcement of the Sibley College of Mechanical Engineering and the  
Mechanic Arts, January 1, 1913.

Announcement of the College of Civil Engineering, February 15, 1913.

Announcement of the College of Law, April 15, 1913.

Announcement of the College of Architecture, June 1, 1913.

Announcement of the New York State College of Agriculture.

Announcement of the Winter Courses in the College of Agriculture.

Announcement of the Summer School in Agriculture, April 1, 1913.

Announcement of the New York State Veterinary College, March 1, 1913.

Announcement of the Graduate School, January 15, 1913.

Announcement of the Summer Session, March 15, 1913.

Announcement of the Department of Forestry, November 1, 1912.

Annual Report of the President, December 1, 1912.

Pamphlets on scholarships, fellowships, and prizes, samples of entrance and  
scholarship examination papers, special departmental announcements, etc.

Correspondence concerning the publications of the University should be  
addressed to

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Ithaca, New York