
CORNELL UNIVERSITY OFFICIAL PUBLICATION

VOL. 29

December 1, 1937

No. 8

*Announcement of the
College of Architecture*

Architecture Landscape Architecture Painting & Sculpture 1938-39



PUBLISHED BY CORNELL UNIVERSITY AT ITHACA, N. Y.
Monthly in September, October, and November
Semi-monthly, December to August inclusive

[Entered as second-class matter, December 14, 1916, at the post office at Ithaca,
New York, under the act of August 24, 1912]

THE COLLEGE OF ARCHITECTURE

Architecture
Landscape Architecture
Painting & Sculpture
and courses in
Regional and City
Planning



1938-39

THE UNIVERSITY CALENDAR

1938-39

1938

FIRST TERM

Sept.	19, <i>Monday</i> ,	Entrance examinations begin.
Sept.	26, <i>Monday</i> ,	Registration and assignment, new students.
Sept.	27, <i>Tuesday</i> ,	Registration and assignment, old students.
Sept.	29, <i>Thursday</i> ,	Instruction begins at 8 A.M.
Oct.	20, <i>Thursday</i> ,	Last day for the payment of tuition for the first term.
Nov.	23, <i>Wednesday</i> ,	Instruction suspended at 4 P.M. (<i>Thanksgiving Recess</i>)
Nov.	28, <i>Monday</i> ,	Instruction resumed at 8 A.M.
Dec.	21, <i>Wednesday</i> ,	Instruction suspended at 4 P.M. (<i>Christmas Recess</i>)
Jan.	5, <i>Thursday</i> ,	Instruction resumed at 8 A.M.
Jan.	11, <i>Wednesday</i> ,	Founder's Day.
Jan.	28, <i>Saturday</i> ,	Instruction ends.
Jan.	30, <i>Monday</i> ,	Term examinations begin.
Feb.	8, <i>Wednesday</i> ,	Term examinations end.
Feb.	9, <i>Thursday</i> ,	A holiday.

SECOND TERM

Feb.	10, <i>Friday</i> ,	Registration of all students.
Feb.	13, <i>Monday</i> ,	Instruction begins at 8 A.M.
March	6, <i>Monday</i> ,	Last day for the payment of tuition for the second term.
April	1, <i>Saturday</i> ,	Instruction suspended at 1 P.M. (<i>Spring Recess</i>)
April	10, <i>Monday</i> ,	Instruction resumed at 8 A.M.
May	—, <i>Saturday</i> ,	Spring Day: a holiday.
June	5, <i>Monday</i> ,	Term examinations begin.
June	13, <i>Tuesday</i> ,	End of term examinations.
June	19, <i>Monday</i> ,	COMMENCEMENT.

THE COLLEGE OF ARCHITECTURE

THE FACULTY

EDMUND EZRA DAY, S.B., A.M., Ph.D., LL.D., President of the University.

LIVINGSTON FARRAND, M.D., L.H.D., LL.D., President Emeritus.

GILMORE D. CLARKE, B.S., A.I.A. (Hon.), A.S.C.E., F.A.S.L.A.,
Dean and Professor of Regional Planning.

JOHN NEAL TILTON, JR., M.Arch., A.I.A., Assistant Dean and Professor
of Architecture.

CLARENCE AUGUSTINE MARTIN, D.Sc., F.A.I.A., Professor of Archi-
tecture, Emeritus.

OLAF MARTINIUS BRAUNER, Professor of Drawing and Painting.

GEORGE YOUNG, JR., B.Arch., F.A.I.A., Professor of Architecture.

FRANCKE HUNTINGTON BOSWORTH, A.B., F.A.I.A., Andrew Dickson
White Professor of Architecture.

CHRISTIAN MIDJO, Professor of Fine Arts.

RALPH WRIGHT CURTIS, B.S.A., M.S.A., Professor of Ornamental
Horticulture.

LEROY P. BURNHAM, M.S.Arch., A.I.A., Professor of Architecture.

EUGENE DAVIS MONTILLON, B.Arch., F.A.S.L.A., A.I.A., Professor of
Landscape Architecture.

ALEXANDER DUNCAN SEYMOUR, B.S.Arch., A.I.A., Professor of Archi-
tecture.

DONALD LORD FINLAYSON, M.A., Professor of Fine Arts.

HUBERT E. BAXTER, B.Arch., Professor of Architecture.

WALTER KING STONE, Assistant Professor of Fine Arts.

WILLIAM MCLEISH DUNBAR, B.Arch., A.I.A., Assistant Professor of
Architecture and Secretary of the Faculty.

EDWARD LAWSON, B.S., M.L.D., F.A.A.R., A.S.L.A., Assistant Pro-
fessor of Landscape Architecture.

JOHN A. HARTELL, B.Arch., Assistant Professor of Architecture.

KENNETH L. WASHBURN, M.F.A., Assistant Professor of Fine Arts.

ROSS E. BRAUGHT, M.F.A., Acting Assistant Professor of Fine Arts.

FREDERICK O. WAAGE, A.M., M.F.A., Instructor in Classical
Archaeology.

REBECCA S. HARRIS, A.B., Librarian.

MRS. E. G. DAVIS, Assistant Librarian.

MILDRED E. VAN ALSTYNE, Secretary.



THE MAIN DRAFTING ROOM IN WHITE HALL

THE UNIVERSITY

Cornell University is one of the institutions which owe their origin to the Morrill Land Grant Act of 1862. That act, coupled with the foresight and generosity of Ezra Cornell, brought about the incorporation of the University in 1865. Its plan of organization and its initial development were the work of its first president, Andrew D. White.

The policies of those two men, the period of foundation, and the geographical situation have combined to give this University a distinctive character, related both to the older universities of the East on the one hand and to those of the Middle West on the other. The terms of the Morrill Act emphasized instruction in "agriculture and the mechanic arts," but at Cornell the foundations were made as broad as the whole field of learning. In the humanities and the sciences a strong faculty was established and from time to time other faculties have been added. Along with Arts and Sciences, there are now faculties of Agriculture, Architecture, Engineering, Home Economics, Law, Medicine, and Veterinary Medicine, and a Graduate School.

In recent years a plan of selective admission has kept the number of students nearly constant—about six thousand. The faculty numbers nine hundred and seventy-five professors, assistant professors and instructors. Cornell is therefore one of the larger universities but not among the largest.

Ithaca is in the Finger Lakes region of Central New York State. The town, of about twenty thousand, built originally on level land at the head of Cayuga Lake, now covers also the slopes of hills on three sides. The country round about is rolling, dotted with lakes and cut by gorges characteristic of this section. Elevations vary from four hundred to two thousand feet above sea level. By rail, Ithaca is seven hours from New York City and twelve hours from Chicago. The University is on the summit of one of the hills which overlook the town and the lake. From the 350-acre campus there are wide views over the hills, the valley, and the lake. The value of such a setting in an educational process is imponderable, but in the experience of generations of Cornell students it is rated highly.

Each of the colleges of Cornell University is a more or less self-contained unit, free to work out its own ideas in its own way, but nevertheless with the full support and cooperation of the University as a whole and of the other colleges. A student in any of the colleges has at his disposal the common facilities of the University, such as the University Library, the Infirmary, the playgrounds, etc. He is also free to elect work in any college of the University within such limits as may be approved by the faculty of his own college. The work of the College of Architecture is so planned as to encourage its students to make the fullest use of the University as a whole and to allow each student to do this in the way best suited to his own needs.

THE COLLEGE OF ARCHITECTURE

The College was founded in 1871. For many years it offered training in Architecture only. During that period the college grew steadily in number of students and teachers and began the nucleus of an excellent library. By 1917 the students numbered 160 and the Faculty thirteen. In 1922 the Department of Landscape Architecture, hitherto and since its foundation in 1904 a department of the College of Agriculture, was transferred to the College of Architecture. This union has stimulated and enriched all the work of the College, benefiting equally the work in architecture and landscape architecture. Courses in Painting and Sculpture, organized in 1921, have likewise demonstrated the value of related lines of work carried on in intimate contact. By 1922 the number of the students had increased to the practicable and very nearly to the desirable limit. Since that time limitation of numbers has been in effect.

The College has about fourteen hundred alumni, many of whom have attained high rank in their professions, and who give the College spirited support. As students they were of wide geographical distribution, and they are now to be found in all parts of the United States and in foreign countries.

The College of Architecture is one of the smaller colleges of the University, having eighteen teachers and about one hundred and thirty students. Personal relationship between student and teacher is so easy and constant that the student enjoys particular consideration of his personal needs. Because much of the College's work is of a creative sort, instruction is necessarily in the form of individual criticism. As a natural result the College has the character of a small, compact, intimate group with well focused objectives.

The College is a professional school and its courses lead to professional degrees, but over and above this it is an educational institution committed to the idea that technical proficiency alone is wholly inadequate, even for strictly professional needs. This idea governs not only the framework of the curricula but also the way in which each subject, whether technical or not, is presented and the manner in which the whole is administered.

Relations between this College and the others in the University (notably Arts and Sciences, Engineering, and Agriculture) are intimate, cordial, and reciprocal. Thus students in any of the colleges have the advantage not only of the best instruction obtainable in a given subject, but also of widely varying points of view.

In the courses in Design the collaborative idea is stressed wherever possible. Problems involving the joint efforts of the Architect, the Landscape Architect, and the Painter or Sculptor are given from time to time, but more important is the fact that the students are constantly working side by side and frequently under the same instruction.

As between Architecture and Landscape Architecture the correlation of the work is close and thorough. Since the fundamentals of these two professions are in the main the same, the curricula leading to the

degrees in Architecture and Landscape Architecture include much of the same work. The first year in the two courses is identical. The work in design is the same for three terms. Thereafter certain problems are given jointly and from time to time the students work in collaboration. The professors of Architecture are constantly in touch with the Landscape students and the professors of Landscape Architecture with the students in Architecture. Since the courses in Architecture and Landscape differ but little throughout the first three years and because of the flexibility of both courses, it is possible for the student to vary his objective as his developing capacities and tastes may indicate.

The student's work ordinarily is planned to lead to one of three professional degrees. It is inadvisable for anybody not vitally interested to attempt the work of any of these courses of study. Typical curricula are given on pages 16-21. In each case five years is the normal period, though students with exceptionally thorough preparation can fulfill the requirements in less time. While individual cases vary, some students entering the College after taking an A.B. degree have been able to complete the work for the professional degree in three and one-half years. Normally about thirty per cent of the entering class will have had previous college experience of some sort. The rate of a student's progress in the College is determined in large part by the quality of his work and not alone by the quantity of it. The amount of work that a student is permitted to carry each term is dependent upon the excellence of his scholastic record, hence the actual time required for the completion of the course will depend upon his ability as indicated by that record. The time element in the preparation for any creative profession is such, however, that crowding of the work is deemed unwise.

In each of the courses about twenty per cent of the work is elective. Elective subjects are selected by the student, under advice and approval by a faculty committee. Courses may be chosen from the offerings of any college in the University. This work is intended to broaden the student's outlook and to develop whatever natural interest he may have in some field or fields not directly related to his technical work. A minor part of the elective program may be used to strengthen the student in any one department of his technical work in which he may prove to be especially interested and able or somewhat deficient, as the case may be.

In a general way the first year of each curriculum is designed to establish a foundation for the major subjects of the technical program. Thereafter elective work is introduced into the program, forming a sequence through the last four years. Thus the first-year student is given the best opportunity to determine his fitness for the work, and his chance to develop other interests comes when his increasing maturity makes it most valuable.

The student entering the College finds himself in an atmosphere and a life that is distinct and different from that of his other contacts. There is a spirit of solidarity within the College which is nevertheless not

one of isolation. The standards, though high, are not rigid. The student body is a hard working, hard playing unit having free and easy contacts with other departments of University life.

BUILDINGS AND EQUIPMENT

The College occupies the third and fourth floors and a portion of the basement of White Hall, the top floor of Franklin Hall, and parts of Morse Hall. The college offices, the college library, the lecture room, and exhibition rooms occupy the third floor of White Hall. Three drafting rooms, opening together so as to form virtually a single room 45 x 156 feet, occupy the entire fourth floor. On the top floor of Franklin Hall and in Morse Hall are well lighted studios devoted to the work in free-hand drawing, painting, and modeling.

The college library is unusually well equipped as a working collection and for research. The student is permitted and encouraged to use the books, photographs, and drawings freely.

A carefully selected collection of about thirty thousand lantern slides is used constantly in connection with the lectures on history, theory, construction, planting design, and city and regional planning.

The College also maintains an art gallery in Morse Hall for the temporary exhibition of paintings, etchings and other prints, architectural drawings and photographs, and examples of various types of applied art. It is the aim of the college to bring to all students of the University the benefits of contact with the work of eminent artists, architects, and artisans.

In the exhibition rooms in White Hall are shown current student work in design, painting, and drawing.

THE SUMMER SESSION

In the summer of 1938 a course in Design will be offered which will emphasize the correlation of Architecture and Landscape Architecture. The number of students is limited and those having had three or more years training in design will be accepted.

Courses in Drawing and Painting will also be offered.

The Summer Session opens July 5 and closes August 12.

Particulars concerning these courses are given in the Announcement of the Summer Session.

INFORMAL STUDY

Students who are admitted with a considerable amount of advanced credit, and those who have done work of especially high grade in this College, may be admitted to an Informal Study Course designed to facilitate progress. Admission to an Informal Study Course may be granted provisionally by the Committee on Admissions, but in every case must be confirmed by the Faculty. A student admitted to such a course is put under the personal direction of some member of the Faculty. He may then depart from strict curricular requirements in such

main branches as the Faculty may designate in order to do special work under his director. The student's progress is measured from time to time by the Faculty and commensurate credit is voted towards the degree.

GRADUATE STUDY

The instructing staff, drafting rooms, library, and studios of the College are available for students wishing to do graduate work. The facilities of other departments of the University are also open to such students as their programs may require.

The degrees of Master of Architecture, Master of Landscape Architecture, and Master of Fine Arts are granted upon the fulfillment of the conditions prescribed by the Graduate School, which conditions cover work in city and regional planning.

The requirements for advanced degrees are based, not upon courses or credits, but upon the completion of a definite period of residence, the presentation of a satisfactory thesis, and the passing of an examination. The student is expected to show originality and independence in his graduate work.

In order to be admitted to the Graduate School as a candidate for one of the above degrees, a student must be qualified under the general rules of the Graduate School and further must have had a minimum training substantially equivalent in quantity or quality to that required for the baccalaureate degree as given at this University for major work in the respective historic, theoretic, or creative field involved. Admission of all candidates is subject to the approval of the Executive Committee of the Division of Architecture and Fine Arts on the basis of the candidate's credentials and his plan of study.

ADMISSION TO THE COLLEGE

The requirements and rules of admission will be found in the General Information Number, a copy of which will be sent on request by the Secretary of the University.

Prospective students should address the Director of Admissions, Cornell University, Ithaca, N. Y., asking for forms to be used in making application for admission.

Applications for admission in September should be received by June 1. For admission in February applications should be received by January 1. Most classes, particularly those of the first year, are on a yearly basis. It is therefore difficult at midyear to arrange satisfactory schedules for beginners.

ADMISSION TO ADVANCED STANDING

A student who has already attended a technical school or other institution of collegiate rank may be admitted at the beginning of the first term or, if a satisfactory schedule of work can be arranged, at the

beginning of the second term. Such applicant is required to fulfill all academic and other entrance requirements.

In addition he should file with the Director of Admissions of the University an official transcript of record of his work at the institution already attended, together with a certificate of honorable dismissal therefrom. He should also send a catalogue of the institution, writing his name thereon, and marking the courses which he has taken as listed in the official transcript.

Advanced credit for courses in the College of Architecture is given only upon examination by the department concerned; however, a preliminary ruling will be made by the Committee on Admissions on the evidence submitted.

ADMISSION OF SPECIAL STUDENTS

Special students are primarily those who have had advanced experience in practice and whose preparation will not admit them as candidates for a degree. They must be at least twenty-one years of age.

Special students in Architecture or Landscape Architecture must have had a high school training or its equivalent, including a working knowledge of plane geometry and solid geometry and of algebra through quadratic equations. They should have had at least three years' practical experience or its equivalent and submit with their applications examples of their draftsmanship, and credentials from employers or others acquainted with their work.

Special Students in Fine Arts are admitted only on evidence of ability in drawing, painting, or modeling of such outstanding quality as to set a standard for the regular students. Each application will be considered on its merits but the applicant must present evidence to show, first, qualifications and proved ability to do advanced work in some branch of the fine arts; and second, general academic training preferably equivalent to graduation from an institution of collegiate rank but in no case less than the equivalent of graduation from an approved high school. If admitted on the lesser requirement the student will be expected to take, in addition to drawing, painting, etc., such general work as the Faculty may prescribe.

Special students may be admitted at the beginning of either term, but applications should be filed by June 1, or January 1. See also the General Information Number for requirements concerning registration fee and vaccination certificate. A high scholastic performance is expected of special students and is made a condition of their remaining enrolled in the college. The college does not issue a certificate for special work.

TUITION, FEES, AND LIVING CONDITIONS

Information concerning tuition, fees, living conditions, University dormitories, self-help, etc., is given in the General Information Number. This publication also gives various other items of information

applicable to all students in the University. It should be read in connection with this Announcement.

FELLOWSHIPS: SCHOLARSHIPS: PRIZES

For information concerning scholarships that are open to students of this college in common with other students of the University, consult the General Information Number.

A University Fellowship of \$400 with free tuition may be awarded annually for graduate study in Architecture or Landscape Architecture.

Three Graduate Scholarships giving free tuition in the Graduate School may be awarded annually for graduate study in Architecture, Landscape Architecture, or Fine Arts.

Five Scholarships of \$250 each may be awarded annually to graduates of four-year courses in other schools of Architecture, Landscape Architecture, or Fine Arts who are not eligible for admission to the Graduate School (see page 9).

Six First Year Scholarships may be awarded to students registered for their first year at Cornell University in the College of Architecture. These scholarships pay one half of the first year's tuition and may be awarded primarily on the basis of the student's financial need. In the discretion of the College and the President any holder of one of these scholarships in his first year might be awarded the same privilege in his second year, provided the total number of scholarships does not exceed six at any one time.

The American Academy in Rome Fellowships. These fellowships are awarded in Architecture, Landscape Architecture, Painting and Sculpture. They are won on a competitive basis and offer two years residence at the American Academy in Rome, including European travel. The yearly stipend amounts to two thousand dollars. Graduates of this College are eligible for these Fellowships.

The Shreve, Lamb and Harmon Professional Fellowship. This fellowship is awarded annually by the Faculty of the College of Architecture. It is open to any student on completion of his course in that College. The purpose of this Fellowship is to provide better than usual conditions under which a student may make the transition between school work and practice. The student to whom this Fellowship is awarded becomes a member of the staff of Shreve, Lamb and Harmon, Architects, New York City, for the term of one year or as otherwise arranged. During this year he will be given such work as is best calculated to advance his special ability, aptitude or interest, and he will be encouraged to study the office work as he did his student work. He will be paid a salary sufficient to enable him to live decently and comfortably in or near the city of New York.

Tuition Scholarships. For graduate students the Board of Trustees has established thirty tuition scholarships, twenty for work in the endowed colleges and ten for work in the state-supported colleges. They

entitle the holder to exemption from payment of tuition fees, but not other fees, for the duration of the appointment. Applications should be made to the professor, or professors, in whose field the applicant is working or to the office of the Graduate School. Awards are made in May of each year.

Phi Kappa Phi Scholarship. The Phi Kappa Phi Scholarship, established by the Cornell Chapter of Phi Kappa Phi, is open to graduate students in any field of study. Preference is given to applicants who are members of the honor society of Phi Kappa Phi. The scholarship carries free tuition in the Graduate School and a stipend of \$150. Applications for this scholarship should be made and filed in the office of the Graduate School not later than March 1.

The Charles Goodwin Sands Memorial Medal, founded in 1900 by the family of Charles Goodwin Sands, Class of 1890, is awarded for work of exceptional merit in any of the advanced courses in the College of Architecture. Two grades of medals are recognized, the silver medal and the bronze medal.

The Clifton Beckwith Brown Memorial Medal was established in 1901 by John Harkness Brown in memory of his brother Clifton Beckwith Brown, killed on the field of battle at San Juan Hill. A silver or bronze replica is awarded by the Faculty to that member of the graduating class who has attained the highest standing in Courses 113 and 114, or 151 and 152. The award is withheld if the standard is not considerably higher than that required for graduation.

The Student Medal of the American Institute of Architects is awarded to the member of the graduating class in architecture who has attained the best record throughout the entire course.

Through the Beaux-Arts Institute of Design numerous prizes are offered for excellence of work in design. These prizes are open to students in the College of Architecture who frequently compete for them with success and distinction to themselves and to the college.

The Fuertes Memorial Prizes in Public Speaking were founded in 1912 by Charles L. Baker, a graduate of the School of Civil Engineering, class of 1886. Three prizes, one of \$100, one of \$30 and one of \$15, are awarded annually to members of the junior and senior classes in the Colleges of Engineering and Architecture for excellence in public speaking.

The Paul Dickinson Prize, established in 1927 by Miss Dorothea C. Dickinson, Class of 1923, in memory of her father, is awarded to the student in the first-year class of the College of Architecture who has attained the highest record.

The Baird Prizes are awarded, one of \$25 and one of \$15, as first and second prizes in a special sketch problem competition in Advanced Design in the College of Architecture. The problem, lasting six days, is given during the early part of the second term and is of a decorative nature. Established in 1927, the gift of Mrs. M. Z. Baird, the income (or, in the discretion of the Faculty of the College of Architecture, the

principal) is to be used for the purposes of that college; it was designated as a prize fund by the Faculty of that College in 1927.

The Edward Palmer York Memorial Prizes, are awarded, one of \$25 and one of \$15, as first and second prizes in a special competition for students in Intermediate Design Course No. 111, and courses 150a and 150b. The problem, lasting approximately one week, is given in the second term.

The Gargoyle Prize of \$10, offered annually by the Gargoyle honorary architectural society, is awarded to the undergraduate member of this college who exhibits at the Summer Sketch Exhibit held in October the best group of sketches or measured drawings done in any medium during the previous summer. Sketches and drawings submitted in this exhibition should be left with the college librarian during September registration.

The Robinson Prize, established in 1936 by C. D. Robinson, jr., class of 1930. The prize of \$25, may be awarded annually for superior advanced work in the History of Architecture.

The New York Society of Architects' Medal and Certificate is awarded annually for Excellence in Construction to that Senior Student who, in the opinion of this Faculty and the Society's Committee, is the leader of his class in construction as applied to Architecture.

Alpha Alpha Gamma offers a prize of \$10 for the best group of photographs taken during the Summer by the students of the College of Architecture.

WINNERS OF AWARDS

The following Fellowships, Scholarships, Medals and Prizes were awarded during the year 1936-37:

University Fellowship: Richard N. Hoar, B.Arch. '36 (Alabama Polytechnic).

Scholarships of \$250 each: Hugh K. Harris, B.S. '25 (Texas A. & M.), Raymond A. Jung, B.S. in Arch. '36 (University of Kansas).

Clifton Beckwith Brown (bronze) Medal: Donald T. Houpt.

Charles Goodwin Sands (silver) Medals: Allen L. Davison, John F. Kirkpatrick, Gordon F. Stofer.

Charles Goodwin Sands (bronze) Medals: Roger H. Ayala, Donald T. Houpt, Robert B. Trivett.

Student Medals of the American Institute: Lloyd A. Doughty, first, and Horace G. Barnard, jr., second.

Baird Prizes: Horace G. Barnard, jr., first, and Gordon F. Stofer, second.

Edward P. York Prize: Ralph D. Fraser.

Gargoyle Prizes: Adelaide Briggs, first, and G. William Atkinson, commendation.

Fellowship in Landscape Architecture of the American Academy in Rome: John F. Kirkpatrick.

ROME PRIZE WINNERS

Following is a list of graduates of this College who have won the Fellowship of the American Academy in Rome:

EDWARD LAWSON. .	.1915-1920
RAYMOND M. KENNEDY.	.1916-1919
RALPH E. GRISWOLD.	.1919-1922
NORMAN T. NEWTON	.1921-1924
GEORGE FRASER.	. . .1925-1928
MICHAEL RAPUANO.	.1927-1930
RICHARD C. MURDOCK.	.1929-1932
NEIL H. PARK.	.1930-1933
MORRIS E. TROTTER.	.1933-1935
JAMES M. LISTER.	. . .1935-1937
ROBERT S. KITCHEN..	.1936-1938
JOHN F. KIRKPATRICK.	.1937-1939

ARCHITECTURE
LANDSCAPE ARCHITECTURE
PAINTING & SCULPTURE
REGIONAL AND CITY PLANNING

REQUIRED COURSES

On the following pages are given the requirements for the several degrees administered by this College. In each case the requirement is one hundred and fifty-three hours, exclusive of the optional entrance subjects and the University requirements in Hygiene and in Military Science and Tactics.

ELECTIVE COURSES

In each of the courses of study offered, a considerable part of the required work is elective. The choice of electives is not restricted, except that every student, before he begins his elective work, is required to plan his entire program of elective studies, have the program approved by some member of the Faculty, and file it with the College office.

ARCHITECTURE

The course leading to the degree of Bachelor of Architecture is designed to afford a technical training as well as a share of that cultural education which every architect should have as a background for his professional work. Proper and economical planning and construction of buildings does not only depend upon a thorough knowledge of the technical elements of construction, but it demands even more that artistic and creative imagination which comes from a knowledge of what has been done and is being done in the architectural field as well as in closely related fields.

Emphasis is placed upon the fact that architects must develop leadership and that they have a duty to society as well as to their clients in the production of both beautiful and useful creations.

A student is advised to take the regular course as printed on the opposite page unless he is especially fitted to enter one of the options outlined below, in which he may pay particular attention to Construction, to Landscape Architecture, to History, or to Painting and Decorative Composition. In all of them the main body of the course is the same and it contains more than the minimum of instruction required for professional registration as outlined by the National Council of Architectural Registration Boards as well as by New York State. In the first column are listed the subjects that are common to the regular course and to all the options, and in the second column are given outlines of the four options mentioned above.

COURSES COMMON TO ALL

*Required of all candidates for the degree of
Bachelor of Architecture*

	<i>Course</i>	<i>Hours</i>
Mathematics.	8	6
Language. . . . .	. . . . .	6
Design.	110	7
	111	12
	113	16
Theory of Structures.	210	6
	211-212	6
	C.E. 280	3
	C.E. 227	1
Drawing and Modeling.	310	6
	320	4
	330	2
	340	2
History	410	3
	411	3
	412	3
Graphics.	510	6
	511	1
Applied Construction.	610	6
	611	9
Thesis. . . . .	. . . . .	8
Total hours. . . . .	. . . . .	116

OPTIONS

OPTION 1: THE REGULAR COURSE AS PRINTED ON PAGE 17

OPTION 2: CONSTRUCTION* (38 hours)

Materials Laboratory, C.E. 226.	3
Reinforced Concrete, C.E. 285.	3
Foundations, C.E. 281.	3
Engineering Laws, C.E. 290.	3
Free Electives.	26

OPTION 3: LANDSCAPE (37 hours)

History of Landscape Design, 450.	3
Landscape Design**.	10
Planting Design, 650.	2
Free Electives.	22

OPTION 4: HISTORY (37 hours)

History of Art, 414.	4
Historic Ornament, 470.	3
Archaeological Problems.	6
Special Research.	3
Free Electives.	21

OPTION 5: PAINTING AND DECORATIVE COMPOSITION (37 hours)

Composition, 328.	8
Historic Ornament, 470.	3
Painting, 331.	4
Free Electives.	22

*Those who elect Option 2 may omit C.E. 227, one hour.

**Under this heading such work will be required as may appear to be desirable in any individual case.

In making a choice between the above options, the student must have permission from the department concerned in order to insure his adequate preparation.

The Course Leading to the Degree of

BACHELOR OF ARCHITECTURE

Of these four subjects: Trigonometry (Math. 3, three hours), Advanced Algebra (Math. 2, three hours), Physics (Physics 3 and 4, six hours), and Chemistry (Chemistry 106a and 106b, six hours), the ones which have not been presented for entrance must be completed before the degree is awarded.

<i>Courses of Study</i>		<i>Hours</i>	
		<i>First Term</i>	<i>Second Term</i>
**FIRST YEAR	Elementary Design, 110.....	4	3
	Freehand Drawing, 310.....	3	3
	Descriptive Geometry, 510.....	3	3
	Mathematics, 2 or 3.....	3	0
	Mathematics, 8.....	0	3
	History of Architecture, 410-411.....	3	3
		<hr/> 16	<hr/> 15
**SECOND YEAR	Architectural Design, 111.....	4	4
	Mechanics of Materials, 210.....	0	3
	Modeling, 330.....	2	or 2
	Elements of Color, 340.....	2	or 2
	History of Architecture, 412.....	3	0
	Perspective, 511.....	0	1
	Mathematics, 8.....	3	0
	Language*.....	3	3
		<hr/> 0	<hr/> 3
		<hr/> 15	<hr/> 16
THIRD YEAR	Architectural Design, 111-113.....	4	8
	Mechanics of Materials, 210.....	3	0
	Structural Design, 211.....	0	3
	Life Drawing, 320.....	2	or 2
	Materials and Construction, 610.....	3	3
	Testing Materials, C. E. 227.....	0	1
	Elective.....	5	0
		<hr/> 17	<hr/> 15
FOURTH YEAR	Architectural Design, 113.....	0	8
	Structural Design, 212.....	3	0
	History of Art, 414.....	2	2
	Applied Design, 611.....	9	0
	Concrete Construction, C. E. 280.....	0	3
	Elective.....	2	0
	History, 413.....	0	3
		<hr/> 16	<hr/> 16
FIFTH YEAR	Architectural Design, 113, and Thesis, 114.....	8	8
	Life Drawing, 320.....	2	2
	Elective.....	5	5
		<hr/> 15	<hr/> 15

*This requirement may be satisfied by credit earned in courses in English or in a foreign language, as approved for individual cases.

**The University requirement in Hygiene and Military Drill must be met in these years in addition to the courses listed.

Note. In addition to the 153 credit hours needed for the degree, there is a Summer Sketching requirement explained on page 39.

LANDSCAPE ARCHITECTURE

Landscape Architecture is acknowledged to be one of the fine arts. As such its purpose is to prepare areas of land for human use and enjoyment and at the same time to preserve, enhance, and create beauty in the landscape. Within the range of professional practice in this art there must be included a knowledge of all the materials, methods, and processes that are necessary for a complete visual realization of a finished piece of work. Fundamental training in architecture, in engineering, in floriculture, and in horticulture is required for the equipment of the landscape architect. His range should be even wider than that, for he ought to acquire facility of expression in the graphic arts, familiarity with the arts of painting and sculpture, and acquaintance with such diverse subjects as history, civil government, economics, geology, and forestry.

In the training of landscape architects Cornell University puts especial emphasis on a correlative training in architecture. The simultaneous study of that closely associated art is intended not only to develop the student's aesthetic judgment but also to perfect his mastery of applied design in his special field. For he will need a sympathetic knowledge of the architect's professional problems and point of view, a disciplined sense of the relation of buildings to landscape, and a ready skill in the treatment of their surroundings if he is ever to deal successfully with the larger problems involved in the development of land for varieties of human use.

As a further means of extending his professional horizon the student of landscape architecture is encouraged to make generous use of courses in Regional and City Planning which this college provides.

In short, the course leading to the degree of Bachelor of Landscape Architecture is designed to give the student a fundamental training broad enough to fit him for practice within the whole compass of his profession. An outline of the course is given on the following page.

Note. A course leading to the degree of Bachelor of Science is given in the New York State College of Agriculture at Cornell University by the Department of Floriculture and Ornamental Horticulture. The instruction in *floriculture* is designed for (1) those who intend to make some branch of commercial flower-growing their life work; (2) those who plan to enter a retail business in floriculture; (3) those who are interested in amateur flower-growing for pleasure and home decoration; (4) those who plan to take up some line of work on private estates or in city parks. The instruction in *ornamental horticulture* is designed primarily to fit students for nursery management, that is, the propagation, growing, and selling of ornamental plants, and for nursery service, the planting of small properties; there is also included training for park service, for the management of private estates, and for work such as is done by planting superintendents for landscape architects. Persons interested primarily in the instruction in floriculture or ornamental horticulture can best obtain further information by consulting the Announcement of the New York State College of Agriculture.

The Course Leading to the Degree of BACHELOR OF LANDSCAPE ARCHITECTURE

Of these four subjects: Trigonometry (Math. 3, three hours), Advanced Algebra (Math. 2, three hours), Physics (Physics 3 and 4, six hours), and Chemistry (Chemistry 106a and 106b, six hours), the ones which have not been presented for entrance must be completed before the degree is awarded.

		<i>Hours</i>	
		<i>First Term</i>	<i>Second Term</i>
**FIRST YEAR	Elementary Design, 110.....	4	3
	Freehand Drawing, 310.....	3	3
	Descriptive Geometry, 510.....	3	3
	Mathematics, 2 or 3.....	3	0
	Mathematics, 8.....	0	3
	Language*.....	3	3
		16	15
**SECOND YEAR	Landscape Design, 150a.....	4	4
	Mechanics of Materials, 210.....	0	3
	Life Drawing, 320.....	2	2
	Elements of Color, 340.....		
	Modeling, 330.....	3	3
	History of Architecture, 410-411.....		
	Perspective, 511.....	0	1
	Mathematics, 8.....	3	0
	Surveying, C. E., 110.....	3	0
	Herbaceous Plant Materials 3a.....	0	2
		15	15
THIRD YEAR	Landscape Design, 150b.....	4	4
	Mechanics of Materials, 210.....	3	0
	History of Architecture, 412.....	3	0
	History of Landscape Architecture, 450.....	0	3
	Plant Materials, 8.....	4	4
	Landscape Engineering, C. E., 212 or 288.....	0	3
	Herbaceous Plant Materials, 3b.....	1	0
	Electives.....	2	3
		17	17
FOURTH YEAR	Landscape Design, 151.....	8	8
	Planting Design, 650.....	2	2
	Landscape Engineering, C. E. 288 or 212.....	0	3
	Testing Materials, 227.....	0	1
	Electives.....	6	3
		16	17
FIFTH YEAR	Landscape Design, 151 and Thesis, 152.....	8	8
	Landscape Construction, 660.....	2	0
	Advanced Planting Design, 651.....	0	2
	Electives.....	4	4
		14	14

*This requirement may be satisfied by credit earned in courses in English or in a foreign language, as approved for individual cases.

**The University requirement in Hygiene and Military Drill must be met in these years in addition to the courses listed above.

Note. In addition to the 153 credit hours needed for the degree, there is a Summer Sketching requirement explained on page 39.

FINE ARTS

The curriculum shown on the next page leads to the degree of Bachelor of Fine Arts. Its purpose is to provide a coordinated technical and cultural education.

In this curriculum the student takes either of two options, one in painting or one in sculpture.

The first year's work, and much of that in subsequent years, is common to both options. Two-fifths of the entire curriculum is non-technical. In the large group of electives (thirty-five hours) the student is encouraged to explore a range of subjects and to choose those best fitted to his individual needs.

Collaborative work is encouraged, problems requiring the work of painter, sculptor, landscape architect, and architect being given from time to time.

The thesis is the culmination of the work, both in composition and in drawing or modeling. It is the final test of the student's ability in these courses and determines his fitness for the degree.

The Course Leading to the Degree of

BACHELOR OF FINE ARTS

		<i>Courses of Study</i>		<i>Hours</i>	
				<i>First Term</i>	<i>Second Term</i>
**FIRST YEAR	Composition, 300.	.....	2	2	
	Freehand Drawing, 310.	.....	3	3	
	History of Painting and Sculpture, 425.	.....	3	3	
	Descriptive Geometry, 510.	.....	3	3	
	Perspective, 511.	.....			1
	Language*	.....	3	3	
			14	15	
**SECOND YEAR	Composition, 301.	.....	2	3	
	Second Year Drawing, 311.	.....	3	3	
	Color, 340, 341 or <i>Modeling</i> , 330***	.....	2	2	
	History of Architecture, 410, 411.	.....	3	3	
	Anatomy, 24.	.....	3	3	
	Electives.	.....	3	2	
			16	16	
THIRD YEAR	Composition, 302.	.....	3	3	
	Painting, 312 or <i>Modeling</i> , 331***	.....	4	6	
	Modeling, 330 or <i>Color</i> , 340.	.....	2	0	
	History of Architecture, 412.	.....	3	0	
	Historic Ornament, 470.	.....	0	3	
	Electives.	.....	3	3	
			15	15	
FOURTH YEAR	Composition, 303.	.....	4	4	
	Painting, 313 or <i>Modeling</i> , 332***	.....	6	6	
	Electives.	.....	6	6	
			16	16	
FIFTH YEAR	Composition, 304.	.....	4	0	
	Painting, 314 or <i>Modeling</i> , 333***	.....	6	0	
	Thesis, 350.	.....	0	8	
	Electives.	.....	6	6	
			16	14	

*This requirement may be satisfied by credit earned in courses in English or in a foreign language, as approved for individual cases.

**The University requirement in Hygiene and Military Drill must be met in these years in addition to the courses listed above.

***Students majoring in sculpture take the courses listed in italics.

Note. In addition to the 153 credit hours needed for the degree, there is a Summer Sketching requirement explained on page 39.

REGIONAL AND CITY PLANNING

Instruction in Regional and City Planning is given by the Colleges of Engineering and Architecture in cooperation. Details of these courses and hours are given on page 39.

The work does not recognize Regional or City Planning as a separate professional pursuit, and hence no attempt is made to give the student technical proficiency in large scale planning, nor even any large array of detailed factual information.

Regional planning study aims to apply foresight and intelligence to the development of land for human use; courses deal in a broad way with the adaptation of man's environment to suit his needs and desires. A study is made of past and possible future achievement in the field of planned and controlled developments of public and private properties as the necessary basis for better living.

The increased use of leisure time, the importance of public works projects, zoning, urban and rural land use, and other pressing problems having to do with the welfare of large masses of people are considered in the light of their bearing on planning practice. Emphasis is placed on the fact that historically and logically the problems presented by large scale planning are so difficult that no single professional group is competent to comprehend them, much less to solve them. It is shown that actual achievement must finally rest on the united efforts of groups composed of people of diverse interests and widely varied training. The courses offered are therefore open to upperclassmen and graduates in all colleges of the University. The presentation of the material is such that special technical knowledge is unnecessary.

The value of these courses to a given student may be enhanced by a well selected program of study in other departments of the University. Students will be assisted in making such selections in anticipation of the work in Regional Planning or to accompany or to follow it.

VISITING LECTURERS IN REGIONAL AND CITY PLANNING IN 1937 AND 1938

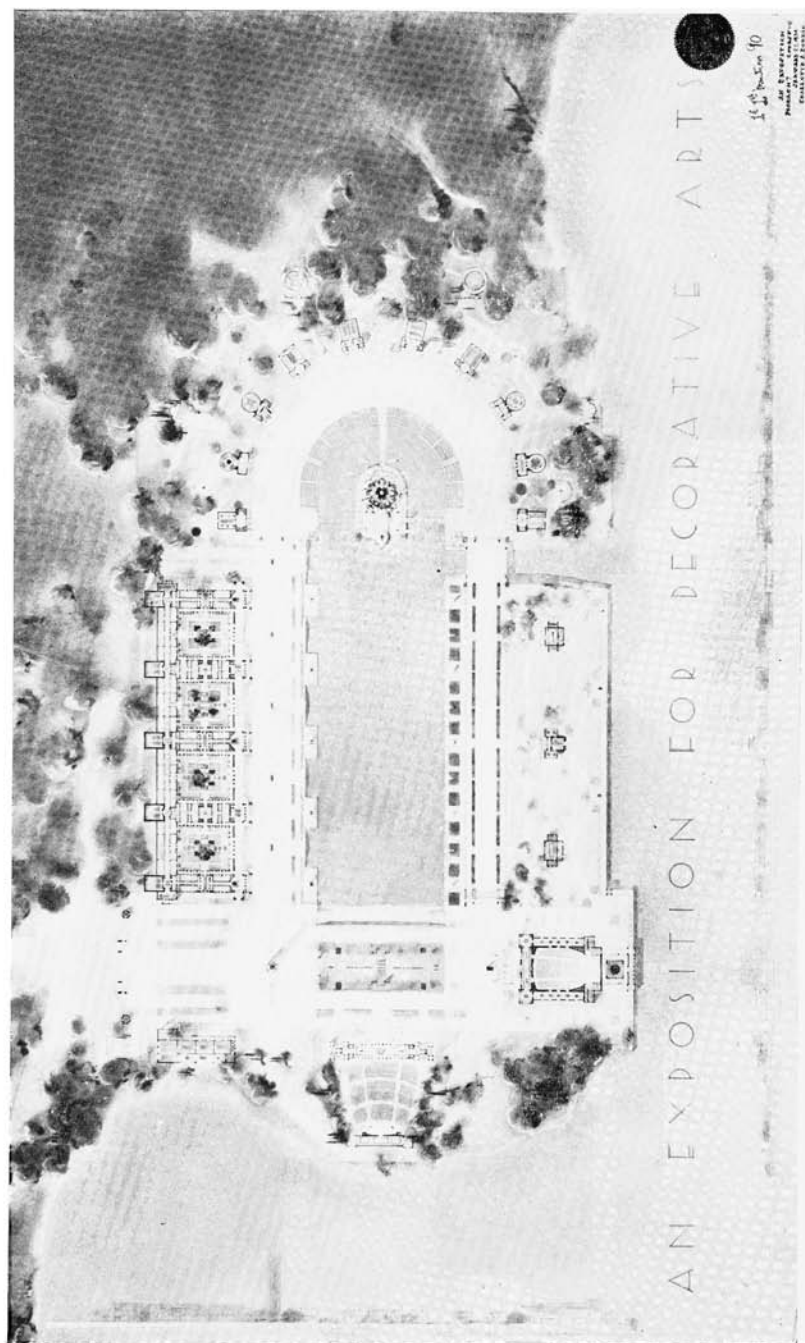
FROM THE CORNELL UNIVERSITY FACULTY: Robert E. Cushman, Professor of Government; Ralph S. Hosmer, Professor of Forestry; F. B. Howe, Professor of Agronomy; T. E. La Mont, Professor of Land Economics; S. C. Hollister, Professor of Civil Engineering.

FROM OUTSIDE: Sir Raymond Unwin of the British Ministry of Health; Wayne D. Heydecker, Director of the New York State Planning Council; Russell V. Black, President of the American City Planning Institute and Planning Consultant of the States of New Jersey and Pennsylvania; Charles W. Eliot 2d, Executive Officer of the National Resources Board.

RECENT EXAMPLES OF STUDENTS' WORK



ETCHING
E. STEWART WILLIAMS

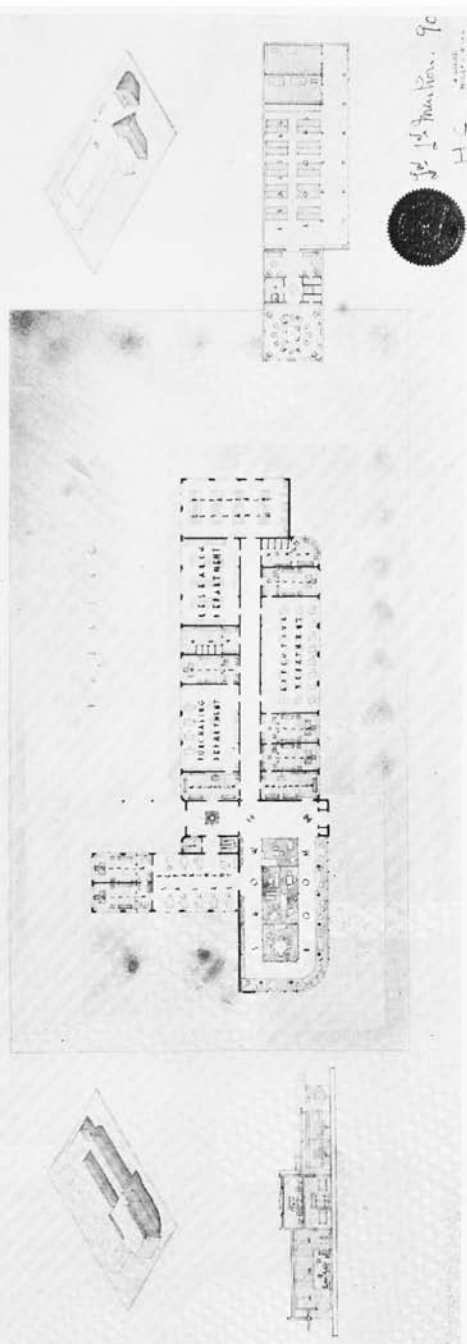
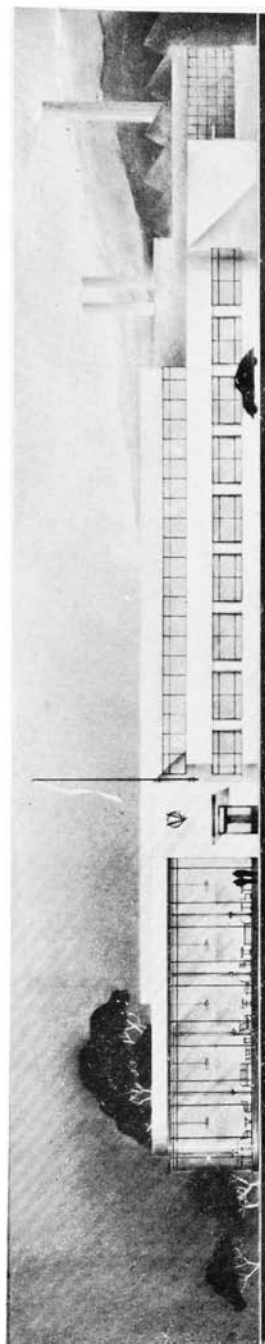


AN EXPOSITION FOR DECORATIVE ARTS

1/2" = 10' 0"
 ALL DIMENSIONS
 GIVEN IN FEET
 EXCEPT WHERE
 OTHERWISE NOTED

SENIOR DESIGN

CHARLOTTE A. DOWRIE



Vol. 15. Number. 90

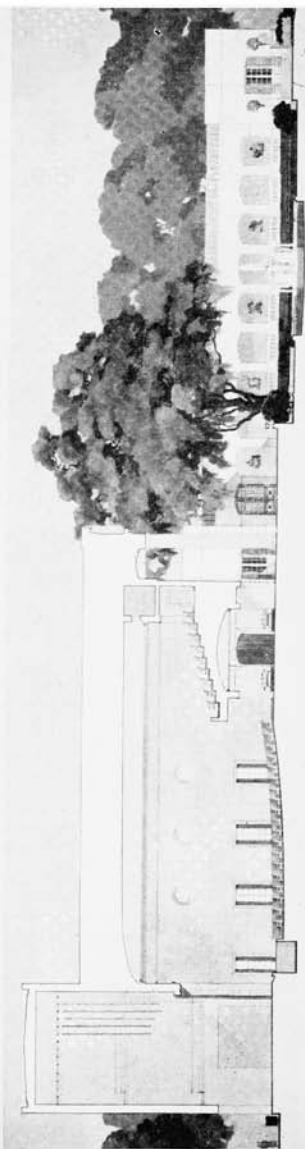
SOPHOMORE DESIGN

A. GELLER



View in Long Ziegler

View from Railroad Elevated Through Forecourt



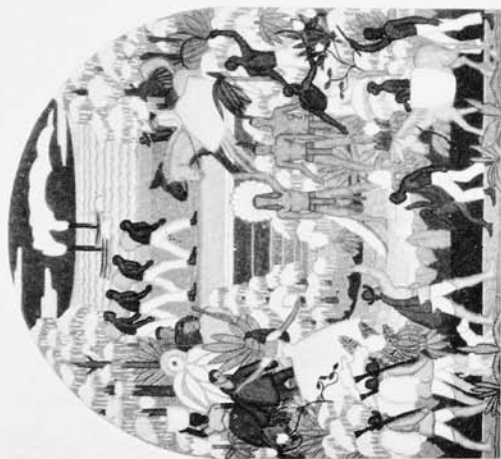
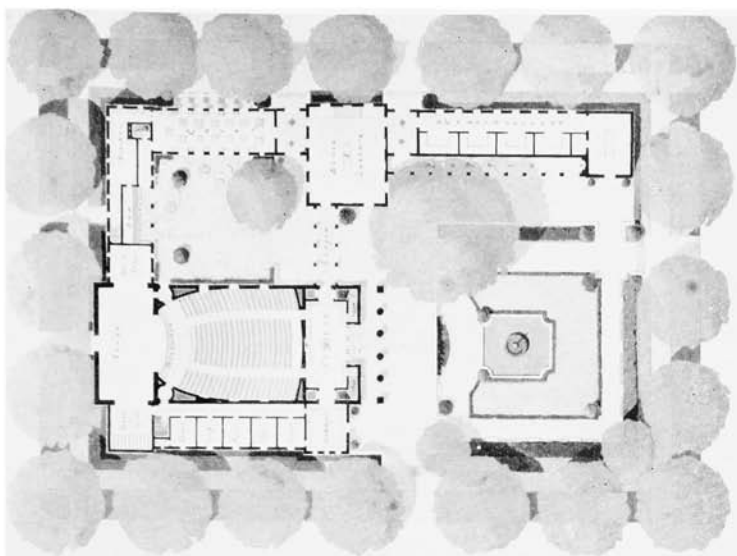
Longitudinal Section Elevated - Scale One Inch Equals Eight Feet

A RECREATION CENTER IN NATCHEZ MISSISSIPPI

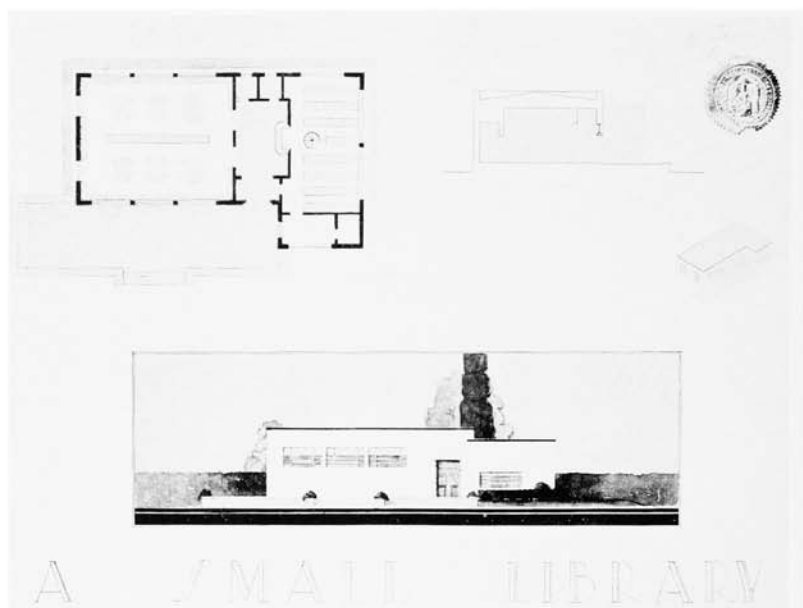
DESIGN BY ARCHITECT, LANDSCAPE ARCHITECT,
 B. J. RABE, *Architect*; R. S. KITCHEN, *Landscape Architect*;
 This Design received the First Prize Award in
 New York City in 1936 by the Alumni

A RECREATION CENTER IN NATCHEZ MISSISSIPPI

Scale - One Inch Equals Sixteen Feet

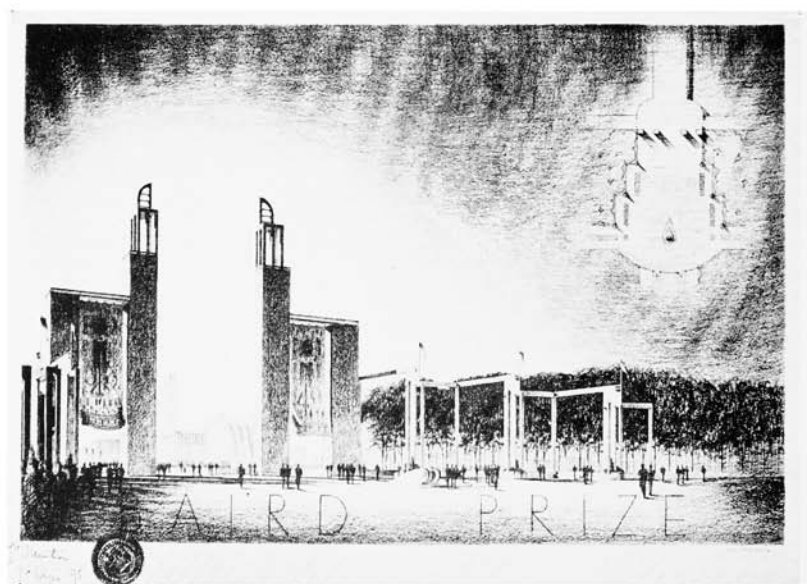


SCULPTOR, AND PAINTER, IN COLLABORATION
C. LAWRENCE, *Sculptor*; ADELAIDE E. BRIGGS, *Painter*
National Collaborative Competition held in
the American Academy in Rome



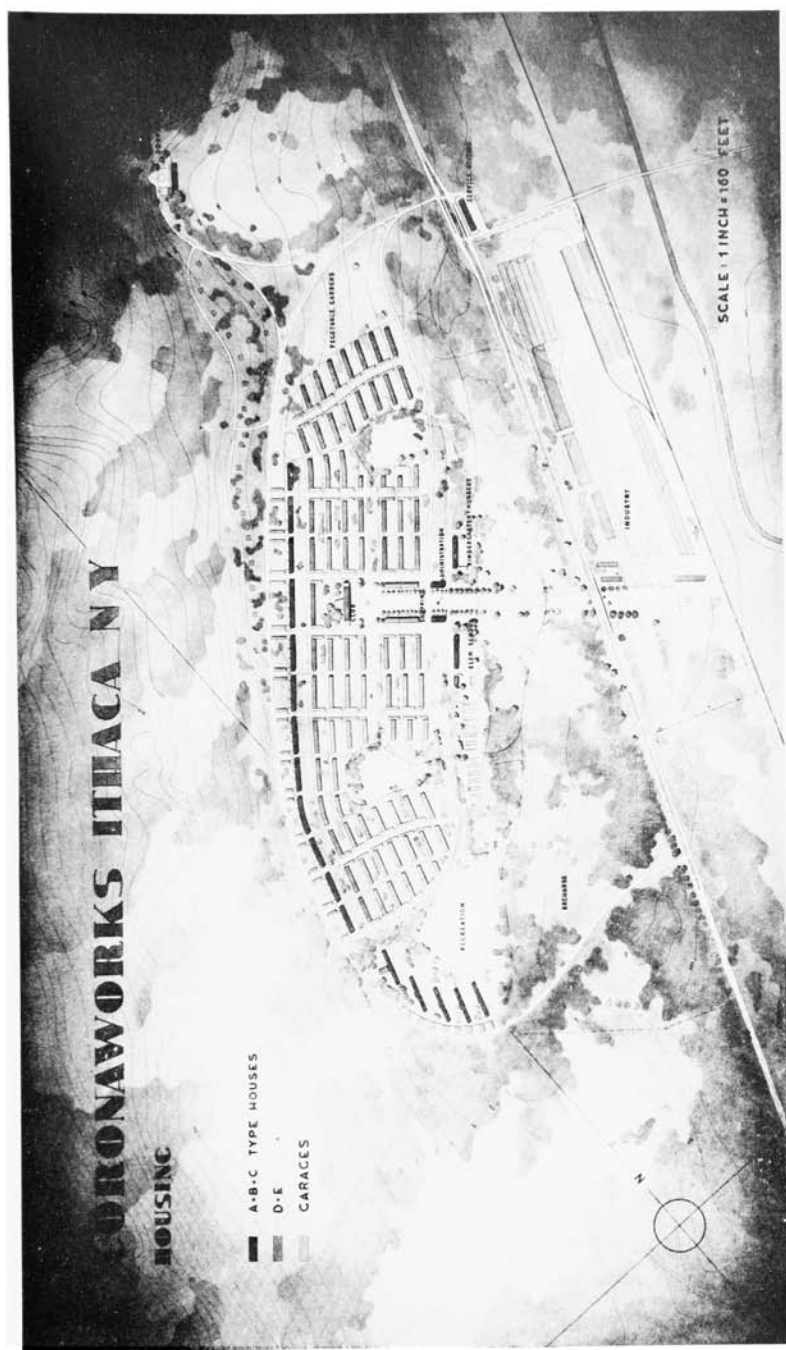
ELEMENTARY DESIGN

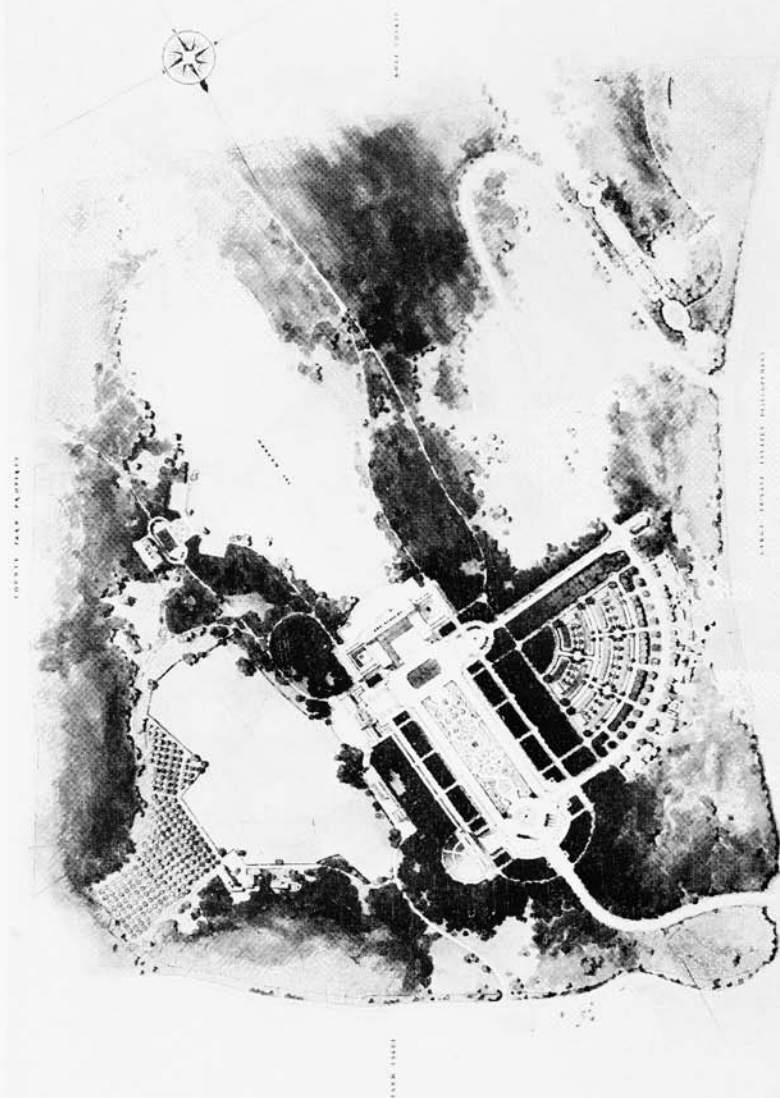
LOUISE WELCH



ADVANCED DESIGN SKETCH

HORACE G. BARNARD







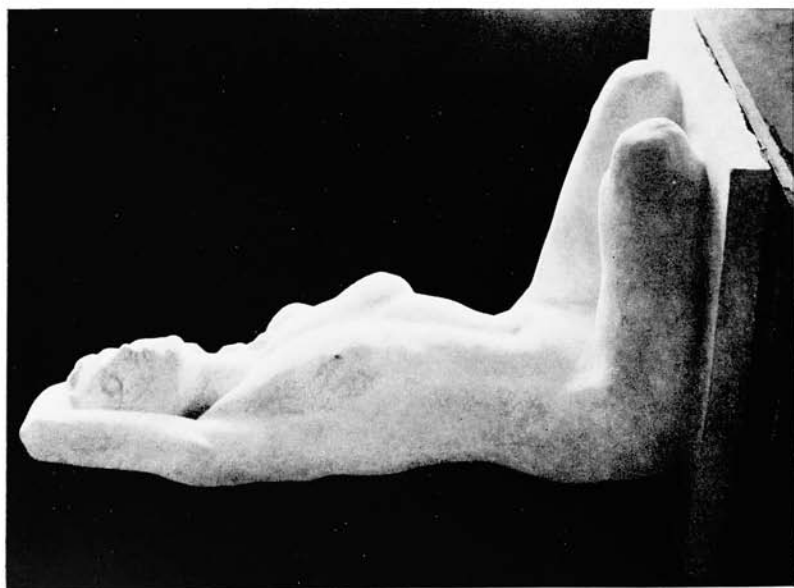
ADELAIDE E. BRIGGS

THESIS IN PAINTING



RUTH ROGERS

SECOND YEAR COMPOSITION



MARY SAVACOL

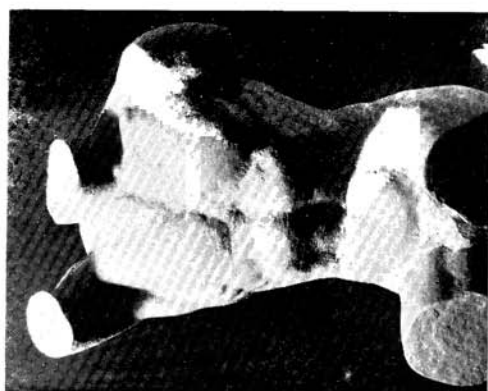
ADVANCED MODELING



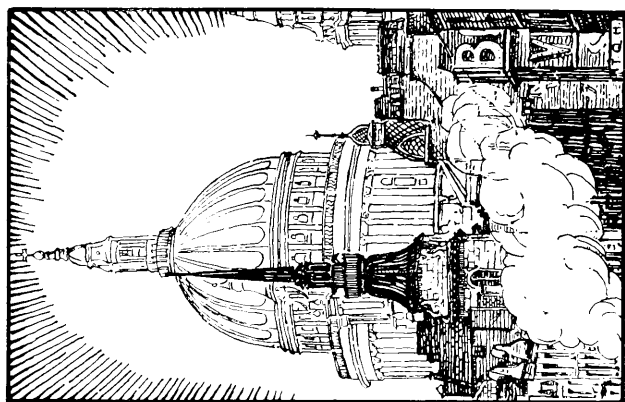
LIFE DRAWING SKETCH
ROBERT WILSON



FIRST YEAR DRAWING
FRANCES STALEY

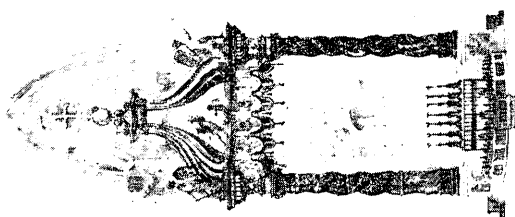


MODELING FROM LIFE
MARY SAVACOOLO

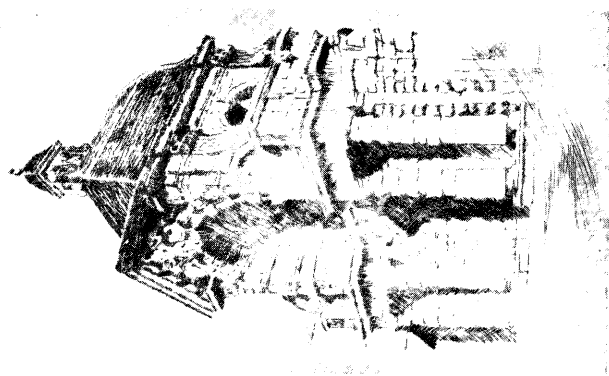


T. Q. HOFFMAN

HISTORY SKETCHES



T. SEYMOUR



R. H. THOMSON

COURSES OF INSTRUCTION

GIVEN IN THE COLLEGE OF ARCHITECTURE

Note. Courses which are open to election by students not registered in the College of Architecture are marked with an asterisk (*) preceding the number of the course. The number of students that can be accepted in any course is limited.

Certain of the advanced courses in the Department of Painting and Sculpture may be elected by specially qualified students with the permission of the professor in charge of the course. See pages 36-37.

Students not registered in the College of Architecture are required to pay a fee of \$5 a term for each course in Design, Drawing, or Modeling. If the student is registered for two such courses the total fee is \$10.

THEORY OF ARCHITECTURE

012. **Advanced Theory, Elective.** First term. Credit one hour. Mr. BOSWORTH. Open to students in Advanced Design and graduates. W 4. Students planning to register for this course must obtain permission from Mr. BOSWORTH before registration day.

013. **Advanced Theory Seminar, Elective.** Second term. Credit one hour. Mr. SEYMOUR. Registration limited. Open to students in Advanced Design and graduates. By appointment. Students planning to register for this course must obtain permission from Mr. SEYMOUR before registration day.

014. **Advanced Theory Seminar, Elective.** First term. Credit one hour. Mr. HARTELL. Registration limited. Open to upperclassmen and graduates. By appointment. Students planning to register for this course must obtain permission from Mr. HARTELL before registration day.

070. **Landscape Seminar, Elective.** Either or both terms. Credit one hour each term. Mr. MONTILLON or Mr. LAWSON. Open to upperclassmen and graduates. By appointment.

*072. **Appreciation of Architecture.** Second term. Credit two hours. Mr. BOSWORTH. Registration limited. Open to non-technical upperclass students by permission. No ability in drawing required. An analytical and historical study of specific examples of architecture. Lectures with assigned readings, essays, and examinations. T Th 2 p. m. White 28.

DESIGN

Instruction in Architectural and Landscape Design is given by the Design Staff—Messrs. Bosworth, Seymour, Burnham, Montillon, Lawson, and Hartell—and consists of individual criticism over the drafting board. By appointment.

110. **Elementary Design.** Throughout the year. Credit seven hours on completion of the course. The first principles of architectural design and construction with drawings in pencil and ink, rendered in wash and color. Lecture, M 1:40, and T W F 1:40-4.

111. **Intermediate Design.** Throughout three terms. Credit twelve hours on completion of the course. Prerequisite course 110. A series of problems in architectural composition and planning.

113. **Advanced Design.** Throughout three terms. Credit twenty-four hours on completion of the course. Prerequisite course 111. This course is a prerequisite for the thesis.

114. **Architectural Thesis.** Credit eight hours. Prerequisite course 611 and (except for students in Option 1) two terms of course 113.

150a. **Intermediate Landscape Design.** Throughout the year. Credit eight hours on completion of the course. Prerequisite course 110. Half of the work of this course is identical with that of course 111. One lecture discussion period each week on the theory of landscape design. Hour to be arranged.

150b. **Intermediate Landscape Design.** Throughout the year. Credit eight hours on completion of the course. Prerequisite course 150a.

151. **Advanced Landscape Design.** Throughout three terms. Credit twenty-four hours on completion of the course. Prerequisite course 150b.

152. **Landscape Thesis.** Credit eight hours. Prerequisite course 151.

170. **Architectural Rendering.** Either term. Credit two hours. Mr. SEYMOUR. Prerequisite course 110. By appointment. Registration limited. Students must obtain permission from Mr. SEYMOUR before registering for this course.

THEORY OF CONSTRUCTION

210. **Mechanics of Materials.** Second and first terms. Credit three hours each term. Prerequisite, Mathematics 8. Mr. YOUNG. Second term; a brief study of the principles of analytic and graphic statics. Recitations. Section A, M W F 9. Section B, T Th S 9. White B 10.

First term. The effects of loading in producing stress and deformation in beams, columns, and masonry. Two recitations and one computing period. Section A, M W 9; Th 1:40-4. Section B, T Th 9; Th 1:40-4. White B 10.

211-212. **Structural Design.** Second and first terms. Credit three hours each term. Prerequisite course 210. M W F 1:40-4. Mr. BAXTER.

Lectures, computations, and reports. Graphic statics. Detailed design of steel skeleton frame, roof truss, plate girder, miscellaneous details; heavy timber building frame, truss details; masonry arch; retaining wall. (First term, 211, is a prerequisite for Concrete Construction C. E. 280 and for Applied Design 611.)

FREEHAND DRAWING AND FINE ARTS

(See Note, page 35)

COMPOSITION: These courses consist of the study of the underlying principles of composition. They are presented by means of series of problems in pictorial and decorative drawing in line, tone, and color, or in sculptural groups. The work requires the application of the knowledge and proficiency the student has gained in other courses. Each course is prerequisite to the succeeding course.

*300. **First Year Composition.** Throughout the year. Credit four hours on completion of the course. Mr. STONE. T Th 1:40-4. Franklin 37.

301. **Second Year Composition.** Throughout the year. Credit five hours on completion of the course. Mr. WASHBURN. First term, T Th 10-12:30. Second term, T Th S 10-12:30. Franklin 37.

302. **Third Year Composition.** Throughout the year. Credit six hours on completion of the course. Mr. BRAUGHT. T Th 1:40-4. Franklin.

303. **Fourth Year Composition.** Throughout the year. Credit eight hours on completion of the course. Mr. BRAUGHT. T Th 1:40-4. Franklin.

304. **Fifth Year Composition.** First term. Credit four hours on completion of the course. Mr. BRAUGHT. By appointment. Morse.

DRAWING AND PAINTING: In this sequence of courses the emphasis is primarily on the study and representation of form. Various media are used. The beginning work is in pencil and charcoal from geometric objects and still life, instruction in perspective becoming a part of the study. Later, in drawing the human figure from plaster casts and from the living model, the study of Anatomy parallels the work in drawing.

In the third year the course becomes the study in color of the figure both nude and draped.

Each course is prerequisite to the succeeding course.

*310. **First Year Drawing.** Credit three hours each term. Section A, T Th S 10-12:30. Mr. WASHBURN. Section B, M W F 10-12:30. Mr. BRAUGHT. Franklin 37.

311. **Second Year Drawing.** Credit three hours each term. Mr. BRAUGHT. M W F 1:40-4. Franklin 38.

312. **Third Year Drawing and Painting.** Credit four hours first term, six hours second term. Mr. MIDJO. First term, M W F 9-12:30. Second term, M W F 8-12:30 and F 1:40-4.

313. **Fourth Year Painting.** Credit six hours each term. Mr. MIDJO. M W F 8-12:30 and F 1:40-4. Franklin 38.

314. **Fifth Year Painting.** First term only. Credit six hours. Mr. MIDJO. Hours same as in 313. Franklin 38.

320. **Life Drawing.** Credit two hours each term. Messrs. MIDJO and BRAUGHT. Given especially for students in Architecture and Landscape Architecture. Section A, M W 10-12:30. Section B, M W 1:40-4. Franklin 39.

MODELING: These courses begin with a study of architectural ornament from plaster casts, then the human head and figure from antique casts. The advanced work is sculptural portraiture and figure from life.

330. **Elementary Modeling.** Credit two hours each term. Mr. WASHBURN. Prerequisite 310. Th S 8-10:30. Morse.

331. **Third Year Modeling.** Credit four hours first term; six hours second term. Mr. WASHBURN. T Th S 8-10:30 and Th 1:40-4. Criticisms as arranged. Morse.

332. **Fourth Year Modeling.** Credit six hours each term. Mr. WASHBURN. Hours same as 331. Criticisms as arranged. Morse.

333. **Fifth Year Modeling.** First term. Credit six hours. Mr. WASHBURN. Hours same as 331. Criticisms as arranged. Morse.

COLOR: These courses are, in sequence, the representation of still life groups in Pastel, Oil, and Watercolor. In the elementary work the simple medium of pastel is used and the student is given instruction in the theory of color as applied to representation. The technique of oil is then studied and finally water-color, the most difficult medium, is used. The study of color harmony is encouraged. Further study of color harmony is carried on in the courses in Composition.

*340-341-342. **Color.** Credit two hours each term in each course. One or two extra credit hours by special arrangement in Courses 341 and 342. Mr. STONE. Any of the three courses may be taken in either of two sections: First and second terms: Section A, M W 10-12:30. Section B, T Th 10-12:30. Franklin 37.

350. **Thesis.** Second term. Credit eight hours. Prerequisite courses 304 and 314 or 333.

HISTORY

*410. **Ancient Architecture.** First term. Credit three hours. Mr. DUNBAR. Egyptian, Western Asiatic, Greek, Roman, Early Christian, and Byzantine architecture. Lectures with assigned readings, sketches, and examinations. T Th S 9. White 28.

*411. **Medieval Architecture.** Second term. Credit three hours. Prerequisite course 410. Mr. DUNBAR. Mohammedan, Romanesque, and Gothic architecture. Lectures, readings, sketches, and examinations. T Th S 9. White 28.

*412. **Renaissance Architecture.** First term. Credit three hours. Prerequisite course 411. Mr. DUNBAR. Architecture of the Renaissance and to the beginning of the nineteenth century in the principal European countries. Lectures, readings, sketches, and examinations. M W F 9. White 28.

413. **Modern Architecture.** Second term. Credit three hours. Prerequisite courses 110, 111, and 412. Mr. DUNBAR. Nineteenth century and more recent work in the principal European countries, and the architecture of the United States from the Colonial times to the present. Lectures, reading, and examinations. M W F 9. White 28. Given in alternate years. Will be given in 1938-39.

414. **Greek Sculpture and Italian Painting.** Throughout the year. Credit two hours a term. Mr. FINLAYSON. Lectures, class discussions, and examinations. First term, W F 10; Second term, Th S 10. White 28. Open to third, fourth, and fifth year students in the College of Architecture.

1a. **Ancient and Mediaeval Painting and Sculpture.** First term. Credit three hours. Mr. WAAGE. This course is a prerequisite for all other courses in the history of painting and sculpture, with the exception of 414. Registration limited to 75. All students, except freshmen, must register for this course with Mr. WAAGE or Mr. FINLAYSON at White Hall, Room 46, on registration day. M W F 2. Cast Gallery, Goldwin Smith Hall.

1b. **Renaissance and Modern Painting and Sculpture.** Second term. Credit three hours. Mr. FINLAYSON. A continuation of 1a, which is a prerequisite for this course. M W F 2. White 28.

*426. **History of Northern Painting.** Throughout the year. Credit three hours a term. Mr. FINLAYSON. Painting in the Netherlands and in Germany, first term. Painting in France and England, second term. Either term may be elected without the other. Courses 1a and 1b are a prerequisite. M W F 11. White 28. Given in alternate years. Will not be given in 1938-39.

428a. **Romanesque and Gothic Sculpture.** First term. Credit three hours. Prerequisite Course 1a. Mr. FINLAYSON. Sculpture in the major European countries from 1000 A.D. through the Gothic Period. M W F 11. White 28. Given in alternate years. Will be given in 1938-39.

428b. **Gothic Painting.** Second term. Credit three hours. Prerequisite Course 1a. Mr. FINLAYSON. Painting in Italy in the Fourteenth century and in France, Germany, and the Netherlands in the Fourteenth and Fifteenth centuries. M W F 11. White 28. Given in alternate years. Will be given in 1938-39.

*429, 430. **Historical Seminar in Painting and Sculpture.** Throughout the year. Credit two hours a term. Mr. FINLAYSON. Registration limited. Open to graduate students and qualified undergraduates. Ten hours of History of Art or their equivalent is prerequisite. By appointment. Students wishing to elect this course must register with Mr. FINLAYSON by the Monday before block week preceding the opening of the course. Exception will be made only in the case of graduate students entering the University in September.

*450. **History of Landscape Design.** Second term. Credit three hours. Mr. MONTILLON. Lectures, assigned reading, sketches, and examinations. M W F 10. White 28.

*470. **Historic Ornament.** Second term. Credit three hours. Prerequisite course 412. Mr. DUNBAR. 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, sketches, and examinations. Students who wish to take this course must register with Mr. DUNBAR on or before January 25. Given in alternate years. Will not be given in 1938-39.

471, 472. **Historical Seminar in Architecture.** Throughout the year. Credit one hour a term. Mr. DUNBAR. Investigation of assigned topics in the history of architecture: review of books and discussions of current periodical literature. For graduates and open to qualified upperclassmen by permission. By appointment.

GRAPHICS

*510. **Descriptive Geometry.** Throughout the year. Credit three hours each term. MESSRS. BAXTER and BROWN. The fundamental problems of descriptive geometry are studied and applied to the solution of problems in projection. The latter half of the second term is devoted to Architectural Shades and Shadows. Lectures and drawing. Section A, T Th S 10-12:30; Section B, M W F 10-12:30. White B 10.

511. **Perspective.** Second term. Credit one hour. Prerequisite course 510. The geometry of the subject with various derived techniques for practical application. Mr. BAXTER. F 11. White B 10.

APPLIED CONSTRUCTION

610. **Building Materials and Construction.** Throughout the year. Credit three hours each term. Prerequisite 4 terms in the College of Architecture or the equivalent. Mr. TILTON. A brief study of structural materials and details of construction with particular reference to concrete, masonry, fire resisting construction, and carpentry. Lectures and discussions, T Th S 8. White 28.

611. Applied Design. First or second term. Credit nine hours. Prerequisites, courses 111, 211, 610, and one term of 113. Mr. TILTON, assisted by one member of the design staff and one member of the construction staff. The course consists in the design of structures, with special attention to their structural elements and the use of appropriate materials, and will be paralleled with discussions on heating, plumbing, lighting, specifications and contracts, and general office practice. Discussions, M and W at 8 and F at 10. White 28. Criticisms by appointment.

***650. Planting Design.** Throughout the year. Credit two hours each term. Prerequisite, Plant Materials 8. The first term of this course, given during the second term, is open to election by special permission. Mr. LAWSON. Lectures, sketching, drafting, and field trips. Th 10-12:30. White B-6.

651. Advanced Planting Design. Second term. Credit two hours. Prerequisite, Planting Design 650 and permission to register. Mr. LAWSON by appointment. Lectures, assigned reading, drafting, and field trips. White B-6.

660. Landscape Construction. First term. Credit two hours. Prerequisite, C. E. 212 and 288. Messrs. YOUNG and MONTILLON. Lectures and drawing periods. Hours to be announced.

REGIONAL AND CITY PLANNING

***710. Principals of Regional and City Planning.** Throughout the year. Credit four hours on completion of the course. Registration limited to 50. Open to graduates and upperclassmen in all colleges of the University. Mr. CLARKE. The history of planning with a review of influences which affected the development of cities from ancient to modern times. A general view of the theory and accepted practices of large-scale planning including a study of the legal, social, and economic phases. Lectures, assigned reading, and examinations. Occasional lectures will be given by members of other faculties and by outside lecturers selected because of their special experience and skill in certain phases of planning. Students wishing to register for this course should register with Mr. CLARKE at the College of Architecture on registration day. M W 12. White 28.

***711. Seminar in Regional and City Planning.** Throughout the year. Credit one hour each term. Mr. CLARKE. Investigation of assigned topics on particular aspects of the subject with emphasis on either urban or regional planning. Registration limited. Open to students in all colleges of the University, by permission. This course should accompany or follow course 710. M 2 or 4. White, Architectural Seminar Room. Not given in 1938-39.

712. Seminar in Park Planning. First term. Credit two hours. Mr. CLARKE. Specific problems relating to the design of city, state, and national parks with a study of examples. Registration limited. Open to upperclassmen and graduates in the Colleges of Architecture and Engineering. T 8-10. White B-6.

713. Seminar in Parkway, Freeway, and Highway Planning. Second term. Credit two hours. Mr. CLARKE. Specific problems relating to the design of the modern parkway, freeway, and highway with study of examples. Registration limited. Open to upperclassmen and graduates in the Colleges of Architecture and Engineering. T 8-10. White B-6.

SUMMER SKETCHING REQUIREMENT

In addition to the 153 credit hours required for the several degrees administered by this college, each student is required to present, at the beginning of the third, fourth, and fifth years, a group of original summer sketches, satisfactory to the Faculty, not done under formal instruction. (These sketches are to be presented during the first week of instruction in the fall term.)

Sketches are not to be less than six inches in the shortest dimension.

Each group must consist of at least eight sketches if in black and white, or four if in color. They are to be suitably mounted.

COURSES OF THE REGULAR CURRICULA GIVEN OUTSIDE THE COLLEGE OF ARCHITECTURE

(IN THE COLLEGE OF ARTS AND SCIENCES)

MATHEMATICS

Mathematics Make-up Permits. Permits must be obtained from, and approved by, the Department of Mathematics at least one week before the time scheduled for the make-up examination.

2. **College Algebra.** Repeated in second term. Credit three hours. M W F 9, T Th S 9.

3. **Plane Trigonometry.** Repeated in second term. Credit three hours except for students offering Trigonometry for entrance. First term, M W F 10, T Th S 8. Second term, T Th S 10, M W F 8.

8. **Analytic Geometry and Calculus.** Throughout the year. Credit three hours a term. Prerequisite, Mathematics 1, 2, 3, or the equivalent. Primarily for students in the College of Architecture. M W F 8, T Th S 8.

ENGLISH

2. **Introductory Course in Composition and Literature.** Throughout the year. Credit three hours a term. May not be entered the second term. Messrs. GUSTAFSON, JONES, LIPA, MAURER, MOORE, MYERS, PETTIT, SALE, SMITH, TENNEY, THOMPSON, WIENER, L. C. WILSON, ZWINGLE, M W F 8, 9, 10, 11, 12; T Th S 8, 9, 10, 11. Rooms to be announced.

The course, open to freshmen who have satisfied the entrance requirements in English, is a training in the reading and writing of English. All those who elect this course must apply as follows for assignment to sections: the first term at the *Drill Hall*; the second term at Goldwin Smith A. Registration is in charge of Assistant Professor TENNEY.

2a. **Introductory Course in Composition and Literature.** Second term. A repetition of the first term of English 2. T Th S 8. Goldwin Smith 156.

PHYSICS

3. **Introductory Physics.** First term. Credit three hours. Demonstration lectures, W F 9 or 11. Rockefeller A. One conference hour and one laboratory period a week to be arranged. Rockefeller 220. Professor HOWE and Mr. _____.

Properties of matter, sound, and heat.

4. **Introductory Physics.** Second term. Credit three hours. A continuation of Course 3. Hours and staff as in Course 3. It is recommended that this course be preceded by either Course 3 or entrance physics.

Electricity, magnetism, and light.

CHEMISTRY

106a. **General Chemistry.** First term. Credit three hours. Deposit, \$11. Professor LAUBENGAYER, Dr. HOARD, and assistants.

One lecture, one recitation, and one laboratory a week, as assigned.

106b. **General Chemistry.** Second term. Credit three hours. Prerequisite, Chemistry 106a. Professor LAUBENGAYER, Dr. HOARD, and assistants.

One lecture, one recitation, and one laboratory a week, as assigned.

(IN THE MEDICAL COLLEGE)

24. **Anatomy for Artists.** Throughout the year. Credit three hours a term. Professor KERR. A study of the bones, muscles and other structure that affect the surface form and posture. Lecture, Th 12. Drawing period 6 hours a week; hours to be arranged. Given in alternate years. Will not be given in 1938-39.

(IN THE COLLEGE OF AGRICULTURE)

8. **Woody Plant Materials.** First and second terms. Credit two or four hours a term. Intended for advanced and graduate students. Registration by permission of the department. Lecture, T Th 9. Plant Science 37. Laboratory and field trips, M and either W or F 1:40-4. Plant Science 29. Professor R. W. CURTIS and Mr. _____.

A study of the trees, shrubs, and vines used in landscape planting and in nursery work. All members of the class will be required to participate in two excursions to the Rochester parks, one in each term. Laboratory fee, \$4.

3a. **Herbaceous Plant Materials.** Second term. Credit two hours. Lecture, T 8. Plant Science 37. Practice, T or Th 1:40-4. Plant Science 15 and gardens. Messrs. ALLEN and PEIGELBECK.

A study of the ornamental herbaceous plants used in landscape and garden plantings. Emphasis is placed on the identification and use of spring and early summer flowering perennials. All members of the class are required to participate in an excursion to Rochester parks and gardens. Laboratory fee, \$4.

3b. **Herbaceous Plant Materials.** First term. Credit one hour. Prerequisite, course 3a. Practice, W 10-12 or F 11-1. Plant Science 15 and gardens. Messrs. ALLEN and PEIGELBECK.

A continuation of course 3a dealing with annuals and late summer and fall flowering perennials. Principles of the arrangement of herbaceous plants are studied. Laboratory fee, \$2.

(IN THE COLLEGE OF ENGINEERING)

110. **Elementary Surveying.** Freshmen. Either term as assigned. Credit three hours. Use of steel tape, level and transit; fundamental surveying methods; measurements of lines, angles and differences of elevation; land surveying; areas and plotting. Recitations, field work, computations, and mapping. Textbook: Breed and Hosmer's *Elementary Surveying*. First term, one recitation and two field or computation periods a week; Second term, three recitations a week for the first six weeks and three field or computation periods a week for the remainder of the term. Professor UNDERWOOD, Assistant Professor LAWRENCE, and others.

212. **Advanced Surveying.** For students in Landscape Architecture. Second term. Credit three hours. Prerequisite course 110. Topographic surveying; transit and stadia methods; plane table; triangulation; circular curves, vertical curves; profile leveling; cross-sectioning; precise taping; photographic surveying; earthwork computations. Recitations and field work. Textbook: Breed and Hosmer's *Elementary Surveying*, Vol. I. Given in alternate years. May be taken before or after Course 288. Will not be given in 1938-39. Assistant Professor LAWRENCE.

226. **Materials Laboratory.** Juniors. Either term. Credit three hours. Prerequisite course Arch. 210 and must be taken with or preceded by C. E. 280. Experimental determination of the properties of materials by mechanical tests. Study of testing machines (their theory, construction, and manipulation); calibration of testing machines and apparatus; commercial tests of iron and steel: tensile, compressive, torsional, shearing, and flexure tests of metal and various woods and stress-strain observations; tests of cement, concrete aggregate, concrete, plain and reinforced, and of road material and paving brick. The course is planned to supplement Course 225 with its study of the properties of materials by the actual handling of the materials and by observations of their behavior under stress. Laboratory work two 2½ hour periods a week. Professor SCOFIELD.

227. **Testing of Materials.** (Laboratory.) First term. Credit one hour. Prerequisite, Mechanics 210. Given especially for students in the College of Architecture. A brief course in laboratory methods comprising test of beams and columns in steel, wood, and concrete. Professor SCOFIELD.

268. **Modern Highway Planning and Design.** Elective. Seniors and graduate students. Second term. Credit three hours. Prerequisite course 265 or its equivalent. Study of geographical, political, and economic divisions of communities with particular reference to highway transportation requirements; analysis of regional plans chiefly concerning the classification of roads and the selection of routes to be abandoned or improved, based upon their economic justification. Design of regional systems of high-

ways, freeways, and parkways, including the consideration of the economic, safety, and aesthetic aspects. Traffic studies, legislation, financing, and zoning. Design of intersections and grade separations. Problems and reports required. Professors CLARKE and CONWELL.

280. Concrete Construction. Juniors. Either term. Credit three hours. Prerequisite courses 220 and 221. (Preferably taken concurrently with or preceded by course 225). Properties of plain concrete, elementary theory of reinforced concrete as applied to rectangular beams, slabs, T-beams, beams reinforced for compression, columns and footings. Shear, diagonal tension, and direct stress combined with flexure. Computations in the forms of reports on the design of a typical beam and girder floor panel and of a retaining wall. Detail sketches of sections and reinforcement required. Textbook: Urquhart and O'Rourke's *Design of Concrete Structures*. Professors URQUHART and O'ROURKE and Mr. PENDLETON.

281. Foundations. Juniors and seniors. Either term. Credit three hours. Prerequisite courses 220 and 221. Piles and pile driving, including timber, concrete, tubular and sheet piles; cofferdams; box and open caissons; pneumatic caissons for bridges and buildings, caisson sinking, and physiological effects of compressed air; pier foundations in open wells; freezing process; hydraulic caissons; ordinary bridge piers; cylinders and pivot-piers; bridge abutments; spread footings for building foundations; underpinning buildings; subterranean explorations; unit loads. Textbook: Jacoby and Davis's *Foundations of Bridges and Buildings*. Recitations, collateral reading in engineering periodicals, and illustrated reports. Three hours a week. Professors URQUHART and O'ROURKE.

285. Reinforced Concrete Design. Elective. Seniors and graduates. Either term. Credit three hours. Prerequisite course 280. Theory and design of gravity, cantilever, and counterfort retaining walls. Design of footings: single and multiple columns of reinforced concrete, I-beam grillages. Design of bins and tanks, subsurface and supported on towers. Reports and sketches. Three two-hour periods a week. Professors URQUHART and O'ROURKE.

288. Landscape Engineering. Second term. Credit three hours. Prerequisite Surveying 110 and Mechanics of Materials 210. *Roads*—soils and drainage, stabilization of soils, materials, road construction and low cost surfacing. *Structures*—short span bridges of timber, steel or concrete, bridge trusses, small dams, low retaining walls of concrete or rubble masonry, culverts, curbs, gutters, ditch linings, catch basins, septic tanks. Given in alternate years. May be taken before or after course 212. Will be given in 1938-39. Professors CONWELL and URQUHART or O'ROURKE.

290. Engineering Law. Seniors. Juniors admitted only by special permission of the faculty. Also open to seniors in Architecture, Mechanical and Electrical Engineering, Chemistry, and other seniors submitting acceptable qualifications. Either term. Credit three hours. Basic essentials of contracts and contract principles; agency, tort and independent contractor; laws regulating acquisition, use and conveyance of lands and waters, including irrigation law, real estate documents, boundary lines, wills, eminent domain and title searches; corporations, partnerships and other contracts of association; sales and transportation contracts; negotiable instruments; bankruptcy, mechanics liens, patents, trademarks, copyrights, courts, and laws of insurance. The course culminates with the preparation of a set of contract documents for an assigned construction job, including advertisement, surety bond, form of proposal, information to bidders, agreement form, general conditions and specifications with full discussion of important clauses such as payments, time limit, arbitration, extras, liquidated damages and abandonment of contract. Tucker's "Contracts in Engineering" is used as a text, supplemented liberally from other sources. Lectures and recitations. Three hours a week. Professor BARNES and Assistant Professors CRANDALL, PERRY, and THATCHER.

HYGIENE AND PREVENTIVE MEDICINE

All entering students are required to report to the Medical Adviser's Office to make an appointment for a physical examination during the registration days of the first term. Such examination shall be repeated periodically thereafter as indicated by the results of the first or subsequent examination.

Seniors are required to make an appointment for a physical examination during the regular registration days of their last term of residence.

All students in the first year of undergraduate courses are required to attend a lecture-recitation course in Hygiene and Preventive Medicine given once a week throughout the college year.

1. **Hygiene.** First term. Required of all freshmen. Credit one hour. One lecture-recitation each week, with preliminary examination and final. The use of a text-book will be required.

Students must report for registration and assignment to section, the men at the *Old Armory*, the women at *Sage Gymnasium*.

Sections for Men: Professor SMILEY, Assistant Professors GOULD, SHOWACRE, YORK, and Drs. ROBINSON, TEAGARDEN, and HOOD.

Sections for Women: Assistant Professor EVANS, Dr. CUYKENDALL, and Dr. STELLE.

2. **Hygiene.** Second term. Required of all freshmen. Credit one hour. One lecture-recitation each week, with preliminary examination and final. The use of a text-book will be required.

Students must report for registration and assignment to section, the men at the *Old Armory*, the women at *Sage Gymnasium*.

Sections for Men: Professor SMILEY, Assistant Professors GOULD, SHOWACRE, YORK, Drs. ROBINSON, TEAGARDEN, and HOOD.

Sections for Women: Assistant Professor EVANS, and Drs. CUYKENDALL and STELLE.

MILITARY SCIENCE AND TACTICS

1. **Basic Course.** *Required. Throughout the year. The complete course covers two years. Three hours a week, either M T W or Th, 1:40-4:10 P.M.

The course of training is that prescribed by the War Department for Senior Division Units of the Reserve Officers' Training Corps for basic students. Instruction is offered in infantry and Field Artillery. For details concerning the course see the Announcement of the Department of Military Science and Tactics.

*Required of all able-bodied first and second year male students of the College of Architecture who are American citizens and candidates for a baccalaureate degree. The requirements of Military Science and Tactics must be completed in the first terms of residence; otherwise the student will not be permitted to register again in the University without the consent of the Faculty. Students who are officially relieved of the requirement in Military Science and Tactics are subject to the requirement of an equivalent period of work in the Department of Physical Training.

Advanced standing. With the approval of the Department of Military Science and Tactics, credit may be allowed a student for all or part of the Basic Course requirement, upon presentation of evidence of satisfactory work completed at an approved institution.

PHYSICAL EDUCATION FOR WOMEN

6. **Physical Education for Women.** (Freshmen). Throughout the year. Three periods a week. Misses BATEMAN, CANFIELD, ATHERTON, BARROW, and THORIN.

7. **Physical Education for Women** (Sophomores). Throughout the year. Three periods a week. Misses BATEMAN, CANFIELD, ATHERTON, BARROW, and THORIN.

The program consists of: six weeks of outdoor sports in fall and spring; indoor classes in badminton, basketball, fencing, folk, tap, and modern dancing, golf, gymnastics and games, individual gymnastics, riflery, swimming, and tennis.

CORNELL UNIVERSITY OFFICIAL PUBLICATION

This series of pamphlets is designed to give prospective students and other persons information about Cornell University. No charge is made for the pamphlet unless a price is indicated after its name in the list below. Requests for pamphlets should be addressed to the Secretary of the University at Ithaca. *Money orders should be made payable to CORNELL UNIVERSITY.*

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Announcement of the Winter Courses in the College of Agriculture.

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