Cornell
University

ANNOUNCEMENTS

College of *Architecture, Art, and Planning*

1968

Academic Calendar

	1967-68	1968-69
Registration, new students	F, Sept. 8	F, Sept. 13
Registration, old students	S, Sept. 9	S, Sept. 14
Fall term instruction begins, 7:30 A.M.	M, Sept. 11	M, Sept. 16
Midterm grade reports due	S, Oct. 21	S, Oct. 26
Thanksgiving recess:		
Instruction suspended, 1:10 P.M.	W, Nov. 22	W, Nov. 27
Instruction resumed, 7:30 A.M.	M, Nov. 27	M, Dec. 2
Fall term instruction ends, 1:10 P.M.	S, Dec. 16	S, Dec. 21
Christmas recess		
Independent study period begins	W, Jan. 3	M, Jan. 6
Final examinations begin	M, Jan. 8	M, Jan. 13
Final examinations end	T, Jan. 16	T, Jan. 21
Intersession begins	W, Jan. 17	W, Jan. 22
Registration, old students	F, Jan. 26	F, Jan. 31
Registration, new students	S, Jan. 27	S, Feb. 1
Spring term instruction begins, 7:30 A.M.	M, Jan. 29	M, Feb. 3
Deadline: changed or make-up grades	M, Feb. 5	M, Feb. 10
Midterm grade reports due	S, Mar. 9	S, Mar. 15
Spring recess:		
Instruction suspended, 1:10 P.M.	S, Mar. 23	S, Mar. 29
Instruction resumed, 7:30 A.M.	M, Apr. 1	M, Apr. 7
Spring term instruction ends, 1:10 P.M.	S, May 11	S, May 17
Independent study period begins	M, May 13	M, May 19
Final examinations begin	M, May 20	M, May 26
Final examinations end	T, May 28	T, June 3
Commencement Day	M, June 3	M, June 9
Deadline: changed or make-up grades	M, June 10	M, June 16

CORNELL UNIVERSITY ANNOUNCEMENTS
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Cornell University

College of
Architecture, Art,
and Planning

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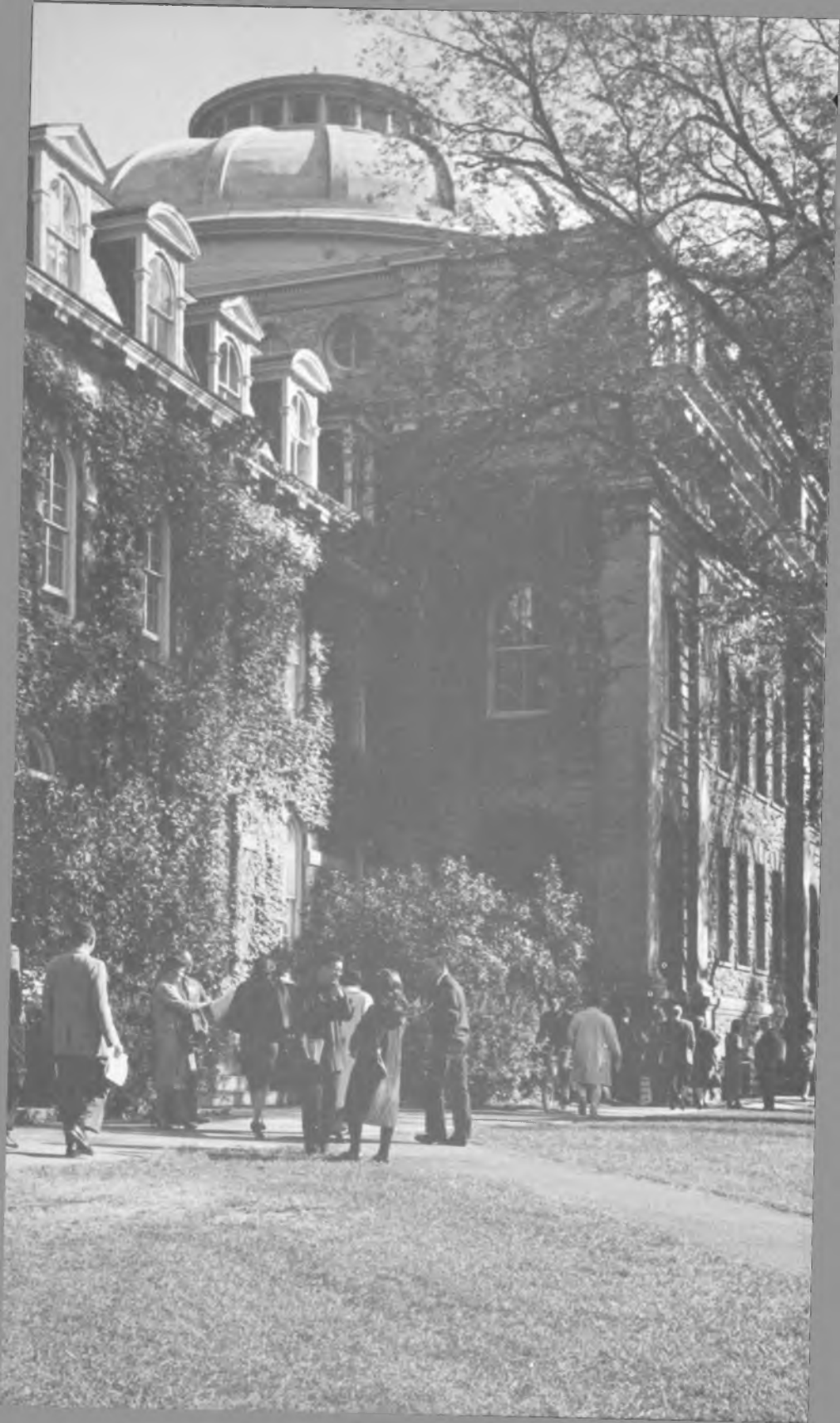

Contents

ACADEMIC CALENDAR *Inside front cover*

CORNELL UNIVERSITY 5

THE COLLEGE OF ARCHITECTURE 6

ARCHITECTURE 8
Undergraduate Program 8
Graduate Study 12
Urban Design 12
Architectural Science 14
Architectural History 15
Courses of Instruction 16

ART 25
Undergraduate Program 25
Graduate Study 28
Courses of Instruction 29

CITY AND REGIONAL PLANNING 38
Master of Regional Planning 39
Doctor of Philosophy 43
Courses of Instruction 44

GENERAL INFORMATION 53
Undergraduates 53
Admission 53
Expenses 56
Summer Session 57
Scholarships, Fellowships, Medals and Prizes 57
Graduate Students 62
Admission and Related Information 62
Financial Assistance 64
Facilities and Services 66

FACULTY AND STAFF 69

STUDENT BODY 72

LIST OF ANNOUNCEMENTS 75

The courses and curricula described in this Announcement, and the teaching personnel listed therein, are subject to change at any time by official action of Cornell University.

CORNELL UNIVERSITY

Cornell University owes its existence to the Morrill Act of 1862 and to the vision, energy, and generosity of two men – Ezra Cornell and Andrew Dickson White. Under the Morrill Act, the State of New York received from the federal government a substantial grant of western lands to be used for the support of colleges teaching agriculture and the mechanic arts. Cornell and White, serving together in the New York Senate, conceived the idea of using the land grant for the establishment of a single great non-sectarian institution where the humanities and sciences would be taught, as well as agriculture and the mechanic arts, and where all studies would be on an equal footing.

In addition to this idea, which was revolutionary at the time, the original plan of the University contemplated the admission of women to all areas of instruction. This too was an innovation in the pattern of higher education in America.

Ezra Cornell, the successful man of business, and Andrew D. White, the scholar, devoted their lives and talents to the realization of these ideals. White became the new University's first president and Cornell its principal benefactor.

The site chosen, high on a hill overlooking Cayuga Lake and Ithaca, has been expanded through the years, and Mr. Cornell's hilltop farm has become the heart of the beautiful campus from which generations of students have watched the sun set behind West Hill, across the valley.

Cornell University now embraces thirteen schools and colleges in Ithaca and the Medical College and School of Nursing in New York City. Some of the divisions of the University are supported by the State of New York. Others, including the College of Architecture, Art, and Planning, are privately endowed. Cornell University thus is a unique combination of the endowed and publicly supported types of institution.

The composition of the student body reflects the cosmopolitan character of the University. Here at Cornell there are students from all walks of life, from all parts of the world, representing all races, all creeds. Students of architecture, art, and planning associate in the classrooms, in the dormitories, and in student organizations with those studying, for example, agriculture, industrial and labor relations, or the humanities, to the advantage of all. From this close association with those of such diverse backgrounds and interests, students at Cornell learn lessons of understanding and tolerance that cannot be taught in the classroom or laboratory.

THE COLLEGE OF ARCHITECTURE, ART, AND PLANNING

At Cornell from the first there was a place in the University system for a school of architecture. A modest department was established in 1871, three years after the University opened. It was fortunate to have President White himself for a patron. He had cultivated an intelligent interest in architecture from boyhood, as he records in his autobiography, and during journeys abroad his "pet extravagance" had been the collection of books and other material relating to it. He gave the new department all that he had accumulated — a large architectural library and several thousand architectural photographs, drawings, casts, models, and other items of material from all parts of Europe — a collection then almost unique. His gift formed the nucleus of an increasingly useful library and store of illustrative equipment.

In the course of time, as the University perfected its organization, the department became the College of Architecture. A Department of Art, organized in 1921, has played an increasingly important part in the College and in the life of the University. In recognition of the growing importance of urban planning, a Department of City and Regional Planning was established in 1935.

In 1967, to reflect the independent strength of its three programs, all three were made separate departments, and the name of the College was changed to the College of Architecture, Art, and Planning.

The College offers two programs leading to the Bachelor's degree — the five-year program in architecture which leads to the degree of Bachelor of Architecture, and the four-year program in art which leads to the degree of Bachelor of Fine Arts. These two programs have entirely different objectives. They are described in detail later.

The faculty of the College, acting as a Division of the Graduate School, has jurisdiction over the following advanced professional degrees: Master of Architecture, Master of Regional Planning, and Master of Fine Arts.

Programs in the major field of study are offered in the College for the following degrees over which the Graduate School has jurisdiction: Architectural Sciences, M.S.; History of Architecture, M.A. and Ph.D.; City and Regional Planning, Ph.D.

The students in each of these programs, working in physical proximity to each other, gain a broader understanding of their

own special area of interest through close contact with the students and teachers in the other disciplines.

As long ago as 1922 the College set a limit to the number of its students and devised a selective method of admission. It now enrolls about 450 students and has a full-time teaching staff of about 50, supplemented by visiting teachers and part-time lecturers and assistants. Teachers and students in such proportion mix together freely, and instruction and criticism are on an individual basis.

The courses in the College are planned as carefully integrated parts of a professional curriculum, with fundamental subjects given within the college by men reflecting the professional point of view. The tradition is one of long hours and high devotion.

The professional concentration of the courses within the College is balanced by the breadth of view gained from the rest of the University. The College is convinced that this breadth is an essential element of education, and that all professionals must also be educated persons. This conviction may be reflected to some extent in the catalog of elective courses taken outside the College, but it runs much deeper than that, influencing the form of the curriculum, the methods of teaching, and the entire extracurricular life of teacher and student alike.

The major part of the instruction is given in Ithaca, but students also take part in the College's New York City Program, where each undergraduate spends one complete semester. The Program gives students in architecture, art, and planning an unparalleled opportunity to observe their professions in action and to consult with the top experts who are setting the directions of future development. This period of intense stimulus and exposure complements and sharpens the concentrated preparation and broad academic background developed in the basic program in Ithaca.

ARCHITECTURE

Undergraduate Program

The program of study which leads to the degree of Bachelor of Architecture takes five years and is designed to afford both the technical and the cultural foundation for professional work. It recognizes the dependence of the profession of architecture not only upon technical skill but also upon a cultivated taste and a creative imagination, emphasizing the architect's obligation to society as well as to the client.

The architect today must be a person of many talents. He must be an artist and an engineer, an administrator, and a coordinator of the work of experts in many fields. Above all, he should have a broad understanding of fundamental human values and problems.

The five-year, ten-term curriculum in architecture outlined in the following pages includes a thorough training in the basic skills and intellectual disciplines needed by the architect. In addition, the student is expected to enlarge his understanding of the liberal arts and sciences through elective courses chosen in consultation with his faculty adviser. In all, about one-fifth of the student's program is devoted to academic electives in the liberal arts, and another fifth is made up of liberal arts courses that are required in the curriculum. Each graduating student must have taken courses in each of three broad areas of study generally described as history, English, and other humanities; social sciences; and biological and physical sciences and mathematics.

Following a concentration of professional requirements within the first three years, the curriculum opens the last two years largely to elective courses, both within and outside the College, and to the New York City Program. The student who wishes to explore in greater depth certain aspects of materials, structures, building technology, history, city planning, urban design, or the fine arts may devote as many as six advanced electives to his field of special interest.

The curriculum is conceived as a fundamental program in architectural training. There are no specialized options, although variation in the basic program is permitted by the electives.

Among the courses leading to the degree of Bachelor of Architecture, design is the basic course and has the greatest number of hours allotted to it. It is in that sequence of courses that the student is expected to demonstrate his ability to solve specific problems in such a manner that the final result is a structure or group of structures efficiently planned, solidly constructed, aes-

thetically satisfying, and in harmony with its surroundings. All other courses leading to the Bachelor of Architecture degree are considered as contributing to these objectives. The work load is heavy, and the expectations of the faculty are high. It is not uncommon for a student who is encountering serious difficulties to be told to take off a term or a year in order to gain work experience and a fresh perspective on his chosen profession.

Other sequences include four terms of structural principles and systems, four terms of building technology (techniques, equipment, and procedures), four terms of art (painting, graphics, sculpture), and four terms of history of architecture. In history, an introductory survey of two terms is followed by a series of advanced courses providing a more intensive experience in significant episodes. For advanced students, seminars and special research courses are offered in the areas of these sequences and in that of city and regional planning.

As a matter of conscious and fundamental policy, each student comes under the instruction of a number of teachers in design during his course of studies. He is exposed to many points of view by experienced teachers and distinguished practitioners and is encouraged to develop his own philosophy of architectural expression.

While for purposes of organization it is convenient to divide the curriculum into courses, the faculty is aware that a division of architecture into somewhat arbitrary components such as architectural design, structural design, and materials and construction is a matter of convenience only. In actual instruction effort is made to integrate the subject matter in these separate courses in such a way that they mesh with each other.

In the fourth year, the students spend one term in the New York City Program. During the other term, they ordinarily study architectural design under a number of outstanding practicing architects who are brought to the College as visiting critics for three or four weeks each. In this way, advanced students are exposed to many of the currents and cross currents in architectural practice by men who are taking a leading part in contemporary design. Visiting critics during 1966–67 included such well-known architects and designers as Franco Albini, of Milan; Alvin Boyarsky, of Chicago; Neave Brown, of London; James Freed, of New York City; Bernhard Hoesli, of Zürich; Duncan Stuart, of Raleigh, N.C.; and, in the New York City Program, Lo-Yi Chan and Rolf Ohlhausen.

Formal instruction is supplemented by lectures given by distinguished persons invited to the campus to address the students in the College of Architecture.

Those students who are especially interested in the related field of city planning may elect, with the permission of the faculty, to do special work in that subject during the fifth year.

BACHELOR OF ARCHITECTURE CURRICULUM

FIRST YEAR

FALL TERM	CREDIT HOURS
Introductory Design 101	5
History of Architecture 400	3
Introductory Drawing and Painting, Art 311	3
Elective (out of College)	3
TOTAL	14

SPRING TERM	
Introductory Design 102	5
History of Architecture 401	3
Introductory Drawing and Painting, Art 312	3
Elective (out of College)	3
TOTAL	14

SECOND YEAR

FALL TERM	
Intermediate Design 103	5
Structural Principles 201	3
Technology 601	3
History of Architecture*	3
Elective (out of College)	3
TOTAL	17

SPRING TERM	
Intermediate Design 104	5
Introductory Sculpture, Art 371 †	3
Structural Principles 202	3
Technology 602	3
Elective (out of College)	3
TOTAL	17

* In addition to History of Architecture 400–401, two subsequent three-hour courses in History of Architecture are required for graduation; these two courses may be taken at any time during the last four years.

† Introductory Sculpture, Art 371, may be taken in the fall term of the second year.

THIRD YEAR

FALL TERM

Junior Design 105	5
Structural Systems 203	3
Technology 603	3
Principles of City and Regional Planning, Planning 710	3
Elective (out of College)	3
TOTAL	17

SPRING TERM

Junior Design 106	5
Structural Systems 204	3
Technology 604	3
History of Architecture *	3
Elective (out of College)	3
TOTAL	17

FOURTH YEAR

FALL TERM

(New York City) ‡

Senior Design 107	6
Intermediate Drawing and Painting, Art 313	3
Dynamics of Environmental Design 801	6
Elective (in College)	3
TOTAL	18

SPRING TERM

Senior Design 108	6
Electives (3 credits in College, 6 out of College, and 3 either)	12
TOTAL	18

FIFTH YEAR

FALL TERM

Advanced Design 109	9
Electives (3 credits in College, 3 out of College, and 3 either)	9
TOTAL	18

SPRING TERM

Advanced Design 110	9
Profession of Architecture 802	3
Electives (3 credits out of College and 3 credits in College)	6
TOTAL	18
GRAND TOTAL	168

‡ One-half of the class will spend the spring term in New York City instead of the fall term.

The University requirement in physical education must be met in addition to the courses listed.

Of the thirty required out-of-College elective hours, one course shall be from each of the three following general areas: mathematics, physical or biological sciences; social sciences; and history, English, or other humanities. On approval of the Dean's office, special programs of elective work may be arranged to meet the needs of individual students.

Graduate Study

The three programs under which graduate study in architecture may be pursued are Urban Design, Architectural Science, and Architectural History. Graduate study is also offered in Art and in City and Regional Planning. Every applicant for graduate study is expected to select and identify in advance the program he intends to follow. Detailed admissions requirements for graduate students are given on page 62.

URBAN DESIGN

Students who have satisfactorily completed a five-year course in architecture at an approved institution, or its equivalent, may be admitted as candidates for the degree of Master of Architecture in the professional program of Urban Design.

Urban Design is an integrated approach concerned with the solution in architectural terms of the developments proposed by city and regional planning. The program of study includes an interpretation of such course material from architecture and planning as will equip the student with an adequate conceptual framework for practice; and it is particularly concerned with the three-dimensional definition of the urban environment in terms which give significance to the individual.

The program of study, cooperatively worked out between the faculties of Architecture and City and Regional Planning, permits a degree of special treatment for the individual student. Normally, four semesters of study are required, and the student should not anticipate completing his studies in less than this time, though in certain special circumstances the requirements for a degree may be completed within a three-semester period. It is possible in individual cases, by specific arrangement in advance, to complete the requirements for both the Master of Architecture and Master of Regional Planning degrees in three years.

ILLUSTRATIVE CURRICULUM IN URBAN DESIGN

FIRST YEAR

FALL TERM

	CREDIT HOURS
Introductory Problems in Urban Design (Studio) (Arch. 190)	6
Seminar in Urban Design I (Planning 744)	2
Principles of City and Regional Planning (Planning 710)	3
History of City Planning (Planning 700)	4
Elective	3
TOTAL	18

SPRING TERM

Problems in Urban Design (Studio) (Arch. 191)	6
Seminar in Urban Design II (Planning 745)	2
Theory of Architecture (Arch. 423)	3
Electives	6
TOTAL	17

SECOND YEAR

FALL TERM

Advanced Problems in Urban Design (Studio) (Arch. 192)	8
Site and Landscape Materials (Arch. 641)	2
Introduction to Urban and Regional Theory (Planning 712)	2
Seminar in Urban Ecology (Planning 714)	2
Elective	3
TOTAL	17

SPRING TERM

Advanced Problems in Urban Design (Studio) (Arch. 193) or Graduate Thesis in Urban Design	9
Seminar in Urban Renewal (Planning 751)	2
Historical Seminars in Architecture (Arch. 450) or Design and Conservation (Planning 746)	2
Elective	3
TOTAL	16

Illustrative List of Possible Electives

Informal Study in Urban Design (Planning 749)	2–6
Planning Analysis (Planning 730)	4
Advanced Planning Analysis (Planning 731)	4
City Planning Administration (Planning 721)	2
Legal Aspects of Planning (Planning 723)	2
Planning Methods and Techniques (Planning 734)	2
Analysis and Interpretation of Aerial Photographs (C.E. 2621)	3
Physical Environment Evaluation (C.E. 2631)	3
Seminar in the History of American City Planning (Planning 702)	2
Seminar in Quantitative Urban Analysis (Planning 732)	2

Institutional Planning (Planning 785)	2
Urban Communities (Soc. 331)	4
Population Problems (Soc. 330)	4
International Urbanization (Soc. 433)	4
Management of Public Agencies I, II (B&P.A. 130–131)	3, 3
Urban Politics (Govt. 312)	4
Informal Study in Housing and Renewal (Planning 759)	2–6

ARCHITECTURAL SCIENCE

Qualified students enrolled by the Graduate School of the University in programs leading to the degree of Master of Science may elect architectural science as either a major or a minor subject, and those enrolled in programs leading to the degree of Doctor of Philosophy may elect it as a minor subject. Programs of study will be arranged to meet the needs of the individual student.

The objectives of the graduate program in Architectural Science are:

1. To afford an opportunity for students of architecture to expand their creative design potential by increasing their knowledge and understanding of the technologies in the building process.

2. To provide a framework within which students graduating in related technical disciplines – civil, electrical, or mechanical engineering, for example – can explore building science and technology related specifically to architecture. For students with such backgrounds, this type of training would prepare them for joining the ranks of consultants to the architectural profession who are well versed in the architectural implications of contemporary science.

Students with undergraduate degrees in architecture, architectural engineering, or the various branches of engineering are likely candidates for this program. The program as it is organized is extremely flexible and can be arranged to meet the specific needs and desires of the individual student and to build on his prior technical preparation and competence. For those students who are applying with a straight engineering background, exposure to architectural disciplines would be included in the program of study.

This graduate program in Architectural Science will be a new offering starting in fall 1967, and is an outgrowth of an existing program in Architectural Structures, which began at Cornell in 1962. Its development has been an attempt to broaden the scientific base of architectural education at the graduate specialty level. Eventually, the program will include work in acoustics, illumination, mechanical systems, materials technology, etc.,

but at present it will concentrate on structures, computer science, and construction planning.

Candidates for the Master of Science degree with a major in architectural science must satisfy the following requirements: (*a*) completion of the program of study prescribed by the student's Special Committee; (*b*) a minimum of two terms of residence; (*c*) presentation of a satisfactory thesis; and (*d*) passing of a final comprehensive examination.

Ordinarily, more than two terms of residence will be required to complete the program of study, depending on the student's background and experience related to his needs and interests. A portion of the student's program will consist of formal course work. Courses offered by the College of Architecture, Art, and Planning are shown in this Announcement. In addition, a student may select courses offered elsewhere in the University, such as civil engineering, engineering mechanics, mechanical engineering, electrical engineering, physics, computer science, and mathematics.

Facilities include a well-equipped structural model laboratory and immediate access to the Cornell Computing Center (IBM 360). In addition, some "hands-on" use of an IBM 1130 computing system will be available to students in the program.

Each year, the students in the program produce a publication which documents their research activities and projects. Back issues are available to prospective applicants upon request.

ARCHITECTURAL HISTORY

Qualified students enrolled by the Graduate School of the University in programs leading to the degree of Master of Arts or Doctor of Philosophy may elect architectural history as either a major or a minor subject. Graduate work in architectural history is normally undertaken only by students whose undergraduate programs emphasized history of art, architecture, or related studies.

The graduate program in Architectural History is concerned with methods of scholarship and research as well as the development of the field of architecture from the earliest times to the present day. A special feature of the program is the opportunity for the student to prepare for the teaching of the history of architecture in the context of the professional school of design.

To complete the requirements for the degree of Master of Arts in Architectural History, candidates must satisfy the requirement for a reading knowledge of one approved foreign language and pass examinations in their major and minor fields of study. Work consists of seminars and courses in this and other departments in

combination with independent study under individual direction. The Fine Arts Library provides a focus and resources for study and preparation of the thesis. Opportunities are usually available for students to take part in special activities, such as the Cornell-Harvard Archaeological Expedition to Sardis, Turkey.

Courses of Instruction

The time and place of each course of study and the name of the instructor will be given in a separate memorandum issued by the College office prior to preregistration for each term. In general, an elective course is not offered to fewer than five students.

ARCHITECTURAL DESIGN

These courses aim to provide an understanding of the art of architecture and training in the various skills which are required of the practitioner. They constitute a series of investigations of the methods and means of establishing architectural order. The problem method is used and instruction is by lectures, group discussion and individual criticism of the student's work over the drafting board.

New York City Program: A series of design exercises dealing with the problems of architecture in an urban context and at an urban scale.

Visiting Critics: Outstanding practicing designers who come for periods of three or four weeks each and conduct a design problem.

Staff: Mr. F. M. Wells, Head; Messrs. Barnette, Canfield, DiPasquale, Dominguez, Greenberg, Hartell, Herdeg, Kira, Koetter, Oswald, Pearman, Rowe, Seligmann, Shaw, Sherwood, Simons, J. A. Wells; New York staff: Messrs. Chan, Ohlhausen. Visiting Critics: Messrs. Atkinson, Eiseman, Hammerman, Quell, Roth, Taylor, Ungers.

The full sequence of courses dealing with architectural design – Architecture 101 through Architecture 110 – are required for the degree of Bachelor of Architecture.

Students who have received a passing grade, but one below the C which is prerequisite for advancement to the next sequence course, may be given permission by the Design Staff to register in Special Design 123 (nonsequence course) and be assigned to work with a class of appropriate level. The student's record while so registered will be used by the Design Staff to determine his status in subsequent terms.

Sequence Courses

Architecture 101–102. Introductory Design

Throughout the year. Credit five hours a term.

Architecture 103–104. Intermediate Design

Throughout the year. Credit five hours a term.

Architecture 105–106. Junior Design

Throughout the year. Credit five hours a term.

Architecture 107–108. Senior Design

(One of the terms to be in the New York Program) Either term. Credit six hours.

Architecture 109. Advanced Design

Either term. Credit nine hours.

Architecture 110. Advanced Design

Either term. Credit nine hours.

Nonsequence Courses

Architecture 119. Elective Design

Either term. Credit as assigned. May be repeated for credit. Open by permission to students who wish to take additional work in design or transfers who have not been assigned to a sequence course. The student will be assigned to work with a class of appropriate level.

Architecture 123. Probationary Design

Either term. Credit as assigned. May be repeated if approved by Design Staff. May not be taken consecutively more than twice.

Note: Courses in Architecture 119 and 123 may not be used to fulfill degree requirements in Architectural Design except by approval of the Design Staff.

Architecture 130N. Graphic Communication

Either term. New York City Program. Credit three hours.

A course designed to convey an awareness of graphic communications media available to architects, for the purposes of effectively and appropriately explaining their solutions and problems posed by their clients.

Courses for Graduates

Architecture 190–191. Problems in Urban Design

Throughout the year. Credit as assigned. The basic first-year design course for graduate students in urban design.

Architecture 192–193. Problems in Urban Design

Throughout the year. Credit as assigned. Continuation of Architecture 190–191.

Architecture 194N–195N. Urban Design Practice

Either term. Credit as assigned. Registration by consent of instructor.

Work in New York metropolitan area on urban renewal projects with regular guidance and instruction by members of the faculty.

ARCHITECTURAL STRUCTURES

The courses in structural principles and systems are shaped to provide a basic training in building structures.

The elective courses are intended for qualified students who wish to study more advanced areas of structural theory and design.

Staff: Mr. Brown, Head; Messrs. DiPasquale, and Saul.

Architecture 200. Structural Concepts

Spring term. Credit three hours. Elective; no prerequisites. Open to any student in Architecture with at least one semester of architectural design as background. Messrs. Dominguez and DiPasquale.

A nonmathematical discussion of structural concepts and decisions as they influence and are influenced by the architectural design process.

Architecture 201–202. Structural Principles

Throughout the year. Credit three hours a term. Architecture 201 is prerequisite for 202. Four evening preliminary examinations each term, to be scheduled at beginning of each term.

Fundamental concepts, based on static equilibrium and the strength and deformation of materials, which are necessary to an understanding of structural behavior.

Fall term. Statics: reactions and simple stresses, shear and bending moment, tensile cables, and ideal compression arches. Unit stress and strain relationships. Unit stress distribution: centroid, static moment, and moment of inertia.

Spring term. Elastic flexure (timber and steel members): shear and bending unit stress, slope and deflection, continuous beams, combined direct stress and bending. Strength of axial compression members.

Architecture 203–204. Structural Systems

Throughout the year. Credit three hours a term. Architecture 203 is prerequisite for 204. Failure in 203 requires repetition, but student may continue with 204.

Structural design procedures involved in roof, floor, and wall framing systems commonly used for building construction.

Fall term. Timber and steel construction.

Spring term. Reinforced concrete construction.

Architecture 221. Advanced Steel Building Design

Fall term. Credit three hours. Elective. Prerequisites, Architecture 204 and permission of the instructor. Mr. Saul.

Design and investigation of advanced systems of steel building structure: plastic design of continuous beams and rigid frames, composite steel beam and concrete slab construction, steel space forms.

Architecture 222. Reinforced Concrete Building Systems

Fall term. Credit three hours. Elective. Prerequisites, Architecture 204 and permission of the instructor. Mr. DiPasquale.

Review of methods and specifications for the design and construction of reinforced concrete building systems. Two-way framing systems. Precast concrete construction. Discussion of ultimate strength and yield line theories. Quality control of reinforced concrete. Exploration of new techniques in concrete construction. Selected topics.

Architecture 223. Building Substructure

Spring term. Credit three hours. Elective. Prerequisites, Architecture 204 and permission of the instructor. Mr. Saul.

The principles of soil mechanics and subsurface exploration. Design of building foundations: footings, piles, subgrade walls.

Architecture 224. Prestressed Building Structures

Spring term. Credit three hours. Elective. Prerequisites, Architecture 204 and permission of the instructor. Mr. Brown.

The application of prestress as a fundamental strategy. Design of prestressed building elements.

Architecture 225. Structures Seminar

Either term. Credit two hours. Elective. Prerequisite, Architecture 204. Registration limited to ten. Staff.

Contemporary structural systems, materials, and ideas discussed from a comparative and analytical point of view.

Architecture 231–232. The Theory of Structure in Architecture

Either term. Credit three hours. Elective. Permission of the instructor required. Mr. DiPasquale.

Fundamental methods for the structural analysis of building frameworks: classical and approximate. Structural response and behavior of building systems. Three-dimensional frameworks, cable supported structures, complex systems. Architectural implications of the multistory frame. Lateral load analysis. Introduction to model analysis. Selected topics including the critical review of the structural systems in notable buildings.

Architecture 233. Surface Structures

Spring term. Credit three hours. Elective. Permission of the instructor required. Mr. DiPasquale.

The qualitative and quantitative analysis and design of folded plate and thin shell architectural structures. The architectural implications and problems of curvilinear forms. Construction techniques. The potential of several materials for curved forms.

Architecture 240. Special Problems in Architectural Science

Either term. Registration and credit by arrangement. Graduate students only. Elective. Staff.

Architecture 250. Ultimate Strength Theory

Fall term. Credit three hours. Elective. Prerequisite, Architecture 204 and permission of the instructor. Mr. Brown.

A survey of flexural theory beyond the elastic range and the principles of limit design relationships applied to continuous steel and reinforced concrete construction.

ARCHITECTURAL HISTORY

Courses in the history of architecture emphasize the relation between developments in architecture and their historical, physical, ideological, artistic, and social context. For advanced students, seminars and special research courses afford an opportunity to investigate historical problems in architecture.

Staff: Mr. Detweiler, Head; Messrs. T. M. Brown, Calkins, Hugo-Brunt, Jacobs, Rowe, and assistants.

Architecture 400–401. Survey of Western Architecture

Throughout the year. Credit three hours a term. Mr. Jacobs.

The history of architecture, considered as a social and cultural expression of Western civilization. Ancient and medieval architecture are discussed in the fall, Renaissance and modern architecture in the spring. Parallel developments in painting and sculpture are taken up where relevant. Intended for students in other colleges interested in an introduction to the history of architecture, and required of all architecture students. No special skills or knowledge are necessary. Nonarchitects may take either or both terms for credit. Slide lectures, readings, short papers, and examinations.

[Architecture 430. The Ancient Near East]

Credit three hours. Prerequisite, Architecture 400 or permission of the instructor. Not offered in 1967–68.

Architecture of the oldest historic civilizations associated with Western tradition, with emphasis on Egypt and Mesopotamia.

Architecture 431. The Classical World

Spring term. Credit three hours. Prerequisite, Architecture 400 or permission of the instructor. Mr. Detweiler.

Architecture of the ancient Mediterranean civilizations, with emphasis on Greece and Rome.

Architecture 432. The Early Middle Ages

Fall term. Credit three hours. Prerequisite, Architecture 400 or permission of the instructor. Mr. Detweiler.

Christian architecture of the first millennium, with emphasis on the early Christian and Byzantine.

[Architecture 433. The Middle Ages]

Fall term. Credit three hours. Prerequisite, Architecture 400 or permission of the instructor. Mr. Calkins. Not offered in 1967–68.

Medieval architecture in western Europe, with emphasis on the Romanesque and Gothic.

[ARCHITECTURE 434. ISLAMIC ARCHITECTURE]

Spring term. Credit three hours. Prerequisites, Architecture 400 and 401 or permission of the instructor. Not offered in 1967–68.

ARCHITECTURE 435 (PLANNING 704). ARCHITECTURE AND PLANNING IN THE FAR EAST

Fall term. Credit three hours. Prerequisite, Architecture 400 or permission of the instructor. Mr. Hugo-Brunt.

An introduction to the evolution of architecture and urbanization in India, China, Thailand, Cambodia, and Japan.

ARCHITECTURE 436. THE RENAISSANCE

Spring term. Credit three hours. Prerequisite, Architecture 401 or permission of the instructor. Mr. Calkins.

Italian architecture of the fifteenth and sixteenth centuries.

[ARCHITECTURE 437. THE BAROQUE]

Spring term. Credit three hours. Prerequisite, Architecture 401 or permission of the instructor. Not offered in 1967–68.

European architecture of the seventeenth and eighteenth centuries.

ARCHITECTURE 438. AMERICAN ARCHITECTURE

Spring term. Credit three hours. Prerequisite, Architecture 401 or permission of the instructor. Mr. Jacobs.

Building in the United States from colonial times, with emphasis on the nineteenth and twentieth centuries.

ARCHITECTURE 439. MODERN EUROPEAN ARCHITECTURE

Fall term. Credit three hours. Prerequisite, Architecture 401 or permission of the instructor. Mr. Brown.

European architecture of the nineteenth and twentieth centuries.

ARCHITECTURE 450–451. HISTORICAL SEMINARS IN ARCHITECTURE

Throughout the year. Credit two hours a term. Permission of the instructor is required.

Qualified students will prepare papers based on historical evidence, discussing problems relating to design or architecture.

ARCHITECTURE 455. SPECIAL INVESTIGATIONS IN THE HISTORY OF ARCHITECTURE

Either term. Hours as assigned. Permission of the instructor is required.

ARCHITECTURE 460. INTRODUCTION TO ARCHITECTURAL ASPECTS OF ARCHAEOLOGICAL FIELD WORK

Either term. Credit two hours. Mr. Detweiler.

For architects, archaeologists, and laymen. A presentation of architectural techniques used in archaeology.

ARCHITECTURE 465 (PLANNING 746). DESIGN AND CONSERVATION

Fall term. Credit two hours. Messrs. Jacobs and Jones.

The rationale for, and methods of, utilizing existing cultural and aesthetic resources in the planning and design of regions and cities.

[Architecture 472. Seminar in the History of Early Medieval Architecture]

Either term. Credit two hours. Undergraduates admitted by permission of the instructor. Mr. Detweiler. Not offered in 1967–68.

[Architecture 473. Seminar in Gothic Architecture]

Spring term. Prerequisite, consent of the instructor. Mr. Calkins. Not offered in 1967–68.

Architecture 478. Seminar in the History of American Architecture

Fall term. Credit two hours. Undergraduates admitted by permission of the instructor. Mr. Jacobs.

Investigation, by means of reading, lectures, and reports, of historical problems in architecture of the nineteenth and twentieth centuries in the United States.

Architecture 479. Seminar in the History of Modern Architecture

Spring term. Credit four hours. Undergraduates admitted by permission of the instructor. Mr. Brown.

Investigation, by means of readings, lectures, and reports, of historical problems in architecture of the eighteenth, nineteenth, and twentieth centuries in Europe.

Architecture 488–489. Problems in Modern Architecture

Throughout the year. Credit two hours a term. Prerequisite, consent of the instructor. Mr. Rowe.

Architecture 490. Thesis in Architectural History

Either term. Credit as assigned.

Independent study by candidates for the Master's degree.

Architecture 499. Dissertation in Architectural History

Either term. Credit as assigned.

Independent research by candidates for the Ph.D. degree.

ARCHITECTURAL ANALYSIS

Architecture 423–424. Theory of Architecture

Throughout the year. Credit three hours a term. First term not prerequisite to the second. Messrs. Dominguez, and Seligmann.

Architecture 456N. The Architect and Contemporary Culture

Either term. Credit three hours. Mr. Hunter.

Given in New York City only.

ARCHITECTURAL TECHNOLOGY

The following courses are concerned with those aspects of materials, techniques, equipment, and procedures which are a part of the present-day practice of architecture.

Staff: Mr. Canfield, Head; Messrs. Saul, and Simons, supplemented by other faculty members and visiting lecturers.

Architecture 601–602. Architectural Technology

Throughout the year. Credit three hours. Prerequisite for 601, two terms in the College of Architecture or permission of the instructor.

A review of the common materials and methods of construction.

Architecture 603–604. Architectural Technology

Throughout the year. Credit three hours.

A review of the problems of heat, light, sound, and sanitation in respect to architectural construction.

[Architecture 611. Graphic Techniques in Contract Communication]

Fall term. Credit three hours. Elective. Prerequisite, Architecture 604 or permission of the instructor. Mr. Canfield. Not offered in 1967–68.

An investigation of the problems of graphic communication between the designer and the constructor of architectural projects. The concern will be with familiar as well as special means, with emphasis upon the manner in which they affect efficiency in the production of graphic documents, accuracy and ease in bidding, and the usefulness of these documents to the constructor in the execution of the project.

[Architecture 623. Architectural Illumination]

Fall term. Credit three hours. Elective. Prerequisite, Architecture 604 and permission of the instructor. Mr. Simons. Not offered in 1967–68.

An extension of the study of illumination which was begun in Architecture 604. A detailed examination of the requirements of light in respect to tasks as well as architectural form. Familiarization, selection, and design of systems.

Architecture 631. Radiation Shelter Design

Spring term. Credit three hours. Elective. Prerequisites, Architecture 602, Architecture 204 or concurrent registration, and permission of the instructor. Mr. Saul.

The effects of nuclear explosions. Principles of radiation shielding. Environmental shelter factors. Design criteria. Design and analysis problems.

Upon satisfactorily completing the course and passing the required examination, participants can become qualified as fallout shelter analysts, contingent also upon their receiving their degrees.

ARCHITECTURAL SCIENCES

The courses in architectural sciences are offered in connection with the graduate program in that field.

Staff: Mr. DiPasquale and staff.

Architecture 260. Computer Applications in Architecture

Fall term. Credit three hours. Elective. Enrollment limited to third-year students and above. Mr. DiPasquale.

Designed to acquaint the student with the current uses and potentials

of electronic computers in the architectural profession. No prior knowledge of computers is assumed. Topics will include: basic principles and logic of computing systems, computer programming (CUPL and FORTRAN), data processing and computer graphics. Current applications such as spective plotting, etc., will be demonstrated. Future applications will be explored in detail. Full use will be made of the Cornell Computing Center and its IBM 360, and "hands-on" use will be provided on an IBM 1130 Computing System.

Architecture 280. Architectural Science Laboratory

Either term. Credit four to six hours. Open to graduate students only. Mr. DiPasquale and staff.

Projects, exercises, and research in the architectural sciences.

Architecture 290. Thesis or Research in Architectural Science

Either term. Credit as arranged. Graduate students only. Staff.

Architecture 804. The Practice of Architectural Science

Spring term. Credit three hours. Elective. Graduate students only. Mr. DiPasquale and visiting lecturers.

A practically oriented course that deals with the everyday problems of providing professional services. Topics include: how to establish, organize, and manage a professional consulting practice; professional and public relations; business financing and procedures; and profit analysis. Case studies.

THE PROFESSION OF ARCHITECTURE

The following courses are concerned with the position of the architect within society. They are a summing up of all the diverse aspects represented within the actual practice of architecture.

Architecture 801N. Dynamics of Environmental Design

Either term. Credit six hours. Prerequisites, Architecture 106, 204, 604. Offered in the New York City Program only. Mr. Willensky.

Clinical studies of architectural practice in relation to projects being programmed, under way in offices, under construction, and completed within the general metropolitan area.

[Architecture 802. The Profession of Architecture]

Spring term in the fifth year. Credit three hours. Prerequisite, Architecture 801. Not offered in 1967–68.

A summing up of the experiences gained in 801 and a review and exploration as to how an architect copes, in a practical and day-to-day fashion, with the problems posed in a broad actual practice.

Architecture 803 (formerly Architecture 621). The Practice of Architecture

Spring term. Credit one hour. Mr. F. M. Wells.

A seminar for fifth-year students devoted to discussion of the organization of the profession of architecture, professional ethics, and client relations.

ART

Undergraduate Program

BACHELOR OF FINE ARTS DEGREE

The curriculum leading to the degree of Bachelor of Fine Arts provides an opportunity for the student to combine a general liberal education with the studio concentration required for a professional degree. During the first year, all students follow a common course of study designed to provide a broad introduction to the arts and to provide a basis for the intensive studio experience in painting, sculpture, and the graphic arts afforded in the last three years. In the third semester, students will take either painting or sculpture, and a required course in printmaking. Beginning with the fourth term, students concentrate on painting, sculpture, or printmaking. They may elect additional studio work in any of these subjects during the last two years, with the consent of the instructor, providing the courses are taken in sequence and at the hours scheduled. These courses are designed to promote a knowledge and critical understanding of these arts, as well as to develop the individual student's talent in their practice. All members of the faculty in the Department of Art are active practicing artists whose work represents a broad range of expression.

Studio courses occupy approximately one-half of the student's time during his four years at Cornell; the remainder is devoted to a diversified program of academic subjects, with a generous provision for electives.

Students in the second half of the third year will spend the fall term in the New York City Program, where use is made of the rich resources of one of the world's great art centers.

The curriculum in art is an independent program of studies within the College of Architecture, Art, and Planning. The intimate relationship thus established between training in fine arts and training in architecture and city planning is a source of special strength in the Cornell program. Students in these three disciplines derive unusual benefits from working in close proximity.

Although the undergraduate curriculum in art is an excellent background for a career in applied art and offers courses in the use of graphics in modern communications, no specific technical courses are offered in such areas as interior design, fashion, or commercial art.

Those students who are primarily interested in the history

rather than in the practice of art should apply for admission to the College of Arts and Sciences with the objective of doing major work in the Department of the History of Art in that College. They may, if they wish, take studio courses in the Department of Art in the College of Architecture, Art, and Planning as electives.

BACHELOR OF FINE ARTS CURRICULUM

FIRST YEAR

FALL TERM

	Painting	*Sculpture*	*Graphics*
Color, Form, and Space, Art 309	2	2	2
Introductory Painting, Art 301	3	3	3
Introductory Sculpture, Art 331	3	3	3
Introductory Drawing, Art 341	2	2	2
Electives (out of College)	6	6	6
TOTAL	16		

SPRING TERM

Color, Form, and Space, Art 310	2	2	2
Introductory Painting, Art 302	3	3	3
Introductory Sculpture, Art 332	3	3	3
Introductory Drawing, Art 342	2	2	2
Electives (out of College)	6	6	6
TOTAL	16		

SECOND YEAR

FALL TERM

Second-Year Painting, Methods and Materials of Painting, Art 303	3		3
Second-Year Sculpture, Art 333		3	
Intermediate Drawing, Art 343	3	3	3
Printmaking, Art 321 or 322	3	3	3
Art of the Nineteenth Century, Art History 362*	4	4	4
Elective (out of College)	3	3	3
TOTAL	16		

SPRING TERM

Second-Year Painting, Methods and Materials of Painting, Art 304	3		
Second-Year Sculpture, Art 334		3	
Printmaking, Art 322 or 321			3
Intermediate Drawing, Art 344	3	3	3
Modern French Painting, Art History 363*	4	4	4
Electives (out of College)	6	6	6
TOTAL	16		

* Taken in the College of Arts and Sciences.

THIRD YEAR

FALL TERM

	Painting	*Sculpture*	*Graphics*
Third-Year Painting, Art 305	5		
Third-Year Sculpture, Art 335		5	
Advanced Printmaking, Art 323			5
Modern American Art, Art History 376*	4	4	4
Electives	8	8	8
TOTAL	17		

SPRING TERM

(New York City) Third-Year Painting, Art 306N or Third-Year Sculpture, Art 336N or Advanced Printmaking, Art 324N	(One term's credit)
Studies in Contemporary Art, Art 833N	
TOTAL	17

FOURTH YEAR

FALL TERM

Fourth-Year Painting, Art 307	5		
Fourth-Year Sculpture, Art 337		5	
Fourth-Year Printmaking, Art 325			5
Art of Early Renaissance in Italy, Art History 347*	4	4	4
Electives	8	8	8
TOTAL	17		

SPRING TERM

Senior Thesis in Painting, Art 308	5		
Senior Thesis in Sculpture, Art 338		5	
Art of the High Renaissance in Italy, Art History 348*	4	4	4
Electives	8	8	8
TOTAL	17		
GRAND TOTAL	132		

The University requirement of four terms in physical education must be met in addition to the courses listed.

Of the required forty-five hours of electives, one course shall be in art history; one in the area of mathematics, physical sciences, or biological sciences; two in the social sciences; two in history, English, or other humanities.

A candidate for the Bachelor of Fine Arts degree at Cornell is required to spend the last two terms of his candidacy in residence at this University subject to the conditions of the Cornell Faculty Legislation of November 14, 1962.

Graduate Study

MASTER OF FINE ARTS DEGREE

Students who hold Bachelors' degrees and have clearly demonstrated professional promise in the field of art may be admitted as candidates for the degree of Master of Fine Arts, majoring in either painting, sculpture, or graphic arts.

The course of study leading to this degree requires four terms of residence and is intended for those who wish to complete their education as artists. A high proportion of those who receive the degree enter the field of teaching at the college level.

The curriculum leading to the Master's degree is flexible enough to accommodate the needs of the individual student. The normal requirement of each of the first three terms is fifteen credit hours; of this, from seven to ten credit hours will be assigned to studio work, two credit hours to Art 398, "Seminar in Art Criticism," and the remainder to courses outside the Department of Art.

Graduate students in art are eligible for introductory or advanced courses in any field of study offered at the University; courses in writing, stagecraft, cinema, and music are available, as well as those in the usual academic subjects of the history of art, philosophy, anthropology, and the like. Courses in education are offered through the School of Education. Candidates for the Master's degree must complete fifteen credit hours of courses in the history of art taken either as graduate or undergraduate students.

At the end of the third term of residence, the candidate is required to present a one-man exhibition of work done while in residence. The principal effort of the fourth term is a thesis consisting of creative work and, in addition, an essay dealing with a subject in the theory or history of the visual arts. A verbal examination on these subjects in general occurs on presentation of the thesis.

Since the course is intended for those who in the opinion of the faculty are competent to do independent work in the field of their choice, all applicants must submit photographs of their work. Color slides are preferable for painting. The original works of art should not be sent.

It is not practical to admit candidates to the program at the beginning of the spring term as all available studio facilities, scholarships, and assistantship will have been allocated at the beginning of the school year. Assistantships are generally awarded to second-year students only. Transfer credit for work done elsewhere, or in summer, is not acceptable.

MASTER OF ARTS IN TEACHING DEGREE

A limited number of students may be admitted, in cooperation with the School of Education, to a program leading to the degree of Master of Arts in Teaching, a degree which will prepare interested and qualified students for teaching in the secondary schools. This program requires a minimum of two regular semesters and one summer of full-time study. Admission standards for these students are the same as those for the M.F.A. candidates above.

Courses of Instruction

The time and place of each course of study and the name of the instructor will be given in a separate memorandum issued by the College office prior to preregistration for each term. Most courses given in the Department of Art are open to students in any college of the University who have fulfilled the prerequisites and who have the consent of the instructor. In general, an elective course is not offered to fewer than five students.

Staff, Art courses: Mr. Mahoney, Chairman: Messrs. Button, Colby, Daly, D'Arcangelo, Dzubas, Evett, Hartell, Hinman, Hunter, Kahn, Miss Pederson-Krag, Messrs. Singer, Squier, visiting critics, and assistants.

Staff, History of Art courses: Mr. Young, Chairman: Mrs. Benson, Messrs. Brown, Calkins, Mrs. Dotson, Messrs. Griswold, Kahn, Lipke, O'Connor, Roe, Selig, Turnure, Waage.

COURSES IN THEORY AND CRITICISM

Art 309–310. Color, Form, and Space

Throughout the year. Credit two hours a term. For art majors.

A study of traditional and contemporary ways of drawing and painting. An analysis of color theory and pictorial space.

Art 833N. Studies in Contemporary Art

Fall term. Credit eight hours. Open only to third-year candidates for the degree of B.F.A. Offered in the New York City Program of the College of Architecture, Art, and Planning.

The studio: a consideration of gallery, museum, and exhibition traditions and practices; a general introduction to the aesthetics, analysis, and criticism of modern works of art; a discussion of the relation of art to society.

Class meetings, mostly in seminar form with occasional lectures, individual projects, gallery and museum visits, and personal contacts with prominent artists working and exhibiting in New York, form the basic organization of the course. Each student is required to present papers and reports dealing with any one of the phases of art in society discussed above. Under special circumstances, projects other than written ones may be undertaken.

Art 398. Seminar in Art Criticism

Either term. Credit two hours a term first year. May be repeated for credit. Three terms required of Master of Fine Arts candidates. Third term, when term theme is written, carries four hours credit. Open to graduate students.

A study of critical opinions, historical and modern, and their relation to problems in the theory of art.

COURSES IN THE HISTORY OF ART

Offered in the College of Arts and Sciences.

Art History 347. Art of the Early Renaissance in Italy

Fall term. Credit four hours.

A survey of painting and sculpture in Italy during the late Middle Ages and Early Renaissance, with emphasis on the major trends from Giotto through Botticelli in the fourteenth and fifteenth centuries.

Art History 348. Art of the High Renaissance in Italy

Spring term. Credit four hours.

Focusing on the works of Leonardo, Michelangelo, Raphael, and Titian, the course will deal with the origin and development of a monumental style in Italian art around 1500, and with its diffusion and modification in various Italian and northern European centers.

Art History 376. Modern American Art

Fall term. Credit four hours.

Concentrates on works of the last three decades with some discussion of the painting of such late-nineteenth– and early twentieth–century American masters as Durand, Kensett, Homer, Eakins, and Ryder and of European masters or groups where these are relevant to the contemporary phase. While painting will be the primary focus, considerable attention will be given to combines, sculpture, objects, environments, and related developments. There will be opportunities to study original works.

Art History 362. European Painting of the Nineteenth Century

Fall term. Credit four hours.

A study of major trends in European painting from Goya to Cézanne. Emphasis will be upon French painting from the era of the French Revolution to the post-Impressionists, but significant developments and major artistic personalities in other European countries will also be considered.

Art History 363. Modern European Painting

Spring term. Credit four hours.

A study of major trends in European painting from post-Impressionism to the present day. While French painting — from Cézanne through the School of Paris — will be the principal focus of the course, equal emphasis will be given to academic and avant-garde movements in the visual arts outside of France.

The above five courses in History of Art are required. A sixth, also required, must be chosen from the following:

Art History 281. Introduction to Asian Art
Spring term.

Art History 313. Prehistoric Art
Fall term.

Art History 314. Primitive Art: The Art of Tribal Societies
Spring term.

Art History 321. Greek Sculpture
Spring term.

[Art History 322. Arts of the Roman Empire]
Spring term. Not offered in 1967–68.

[Art History 331. Art of the Middle Ages]
Spring term. Not offered in 1967–68.

Art History 342. The Art of the Northern Renaissance
Fall term.

[Art History 354. Seventeenth-Century Painting]
Fall term. Not offered in 1967–68.

[Art History 356. Art of the Seventeenth and Eighteenth Centuries]
Spring term. Not offered in 1967–68.

Art History 383. Art of China
Fall term.

Art History 384. Art of Japan
Spring term.

[Art History 386. The Arts of India and Southeast Asia]
Spring term. Not offered in 1967–68.

[Art History 394. Original Works of Art]
Spring term. Not offered in 1967–68.

SEMINARS AND ADVANCED COURSES

The following courses are intended primarily for majors, graduate students, or other advanced students who can meet the prerequisites. Enrollment is limited and consent of the instructor is normally required. All seminars involve the writing and presentation of papers.

[Art History 425. Egyptian Art and Archaeology]
Fall term. Not offered in 1967–68.

Art History 431. Problems in Late Medieval Art
Fall term.

Art History 446. Literary Sources in the Italian Renaissance
Spring term.

[Art History 448. Problems in Sixteenth-Century Art]
Spring term. Not offered in 1967–68.

[Art History 454. Studies in Seventeenth-Century Art]
Spring term. Not offered in 1967–68.

Art History 463. Problems in Twentieth-Century Art
Fall term.

Art History 464. Problems in Twentieth-Century Art
Spring term.

[Art History 472. Problems in American Art]
Spring term. Not offered in 1967–68.

[Art History 484. Problems in Chinese Art]
Spring term. Not offered in 1967–68.

Art History 486. Studies in Chinese Painting
Spring term.

Art History 488. Southeast Asian Art and Archaeology
Fall term.

[Architecture 433. Architecture of the Middle Ages]
Fall term. Not offered in 1967–68.

Architecture 436. Italian Renaissance Architecture
Spring term.

Architecture 439. Modern European Architecture
Fall term.

[Architecture 474. Gothic Architecture]
Not offered in 1967–68.

Architecture 479. Problems in the History of Modern Architecture
Spring term.

STUDIO COURSES IN PAINTING

Art 301–302. Introductory Painting

Throughout the year. Credit three hours a term. For art majors only.

An introduction to the problems of artistic expression through the study of pictorial composition; proportioning, spacing, and the designing of shapes as applied to abstract and representational design. Students will draw as well as paint.

Art 303–304. Second-year Painting — Materials and Methods

Throughout the year. Credit three hours a term. Prerequisite, Art 302 or, with permission, 300B.

Study of traditional and contemporary media, from fresco to synthetic resins.

Art 305. Third-year Painting

Fall term. Credit five hours. Prerequisite, Art 304.

Continued study of the principles of painting, the selection and expressive use of materials and media. Group discussions and individual criticism.

Art 306N. Third-year Painting

Spring term. Offered as part of the New York City Program of the College of Architecture. Prerequisite, Art 305.

The practice of painting continued in a stimulating metropolitan environment. Students are encouraged to explore contemporary modes of expression by visits to prominent artists working in New York City, who in turn visit the Program atelier.

Art 307. Fourth-year Painting

Fall term. Credit five hours. Prerequisite, Art 306N.

Further study of the art of painting through both assigned and independent projects executed in various media. Instruction through group discussions and individual criticism.

Art 308. Senior Thesis in Painting

Spring term. Credit five hours. Prerequisite, Art 307.

Advanced painting project to demonstrate creative ability and technical proficiency.

Art 390. Graduate Painting

Either term. Credit as assigned. May be repeated for credit. For Master of Fine Arts students in painting.

The student will be responsible, under direction, for planning his own projects and selecting the media in which he is to work. All members of the staff are available for individual consultation, and weekly discussion sessions of works in progress are held.

STUDIO COURSES IN GRAPHIC ARTS

Art 321. Relief and Intaglio Printmaking

Either term. Credit three hours. Prerequisite, Art 302 or permission of instructor.

Study and practice of the methods of block printing, etching, engraving, and other methods of relief and below-surface printing. Art 321 or Art 322 may be taken to satisfy the Graphics requirement for Art majors.

Art 322. Lithography, Silkscreen, Mixed Techniques in Printmaking

Either term. Credit three hours. Prerequisite, Art 302 or permission of instructor.

Study and practice of lithographic and silkscreen printing, and various methods of imprint combined.

Art 323. Advanced Printmaking

Fall term. Credit five hours. Prerequisite, Art 321 or 322.

Advanced and independent study of graphic art, together with typographic solutions. The relation of graphic art to the production of publications, books, magazines, etc., may be explored.

Art 324N. Advanced Printmaking

Spring term. Offered as part of the New York City Program of the College of Architecture.

Art 325. Senior Printmaking

Fall term. Credit five hours. Prerequisite, Art 324N.

Further study of the art of graphics through both assigned and independent projects executed in various media. Instruction through group discussions and individual criticism.

Art 326. Senior Thesis in Printmaking

Spring term. Credit five hours. Prerequisite, Art 325.

Advanced printmaking project to demonstrate creative ability and technical proficiency.

Art 361. Typography, Book and Publication Design

Fall term. Credit three hours. Prerequisite, twenty-four hours of studio courses, which may include architectural design, or permission of the instructor.

A study of the basic letter forms, their use in the printed page, in books, magazines, and other published matter, with an emphasis on the printed work as art form.

Art 362. Design for Visual Communications

Spring term. Credit as assigned. Prerequisite, Art 361 or permission of the instructor.

The theory and practice of the various methods and tools of visual design in exhibitions and in still and movie photography, and the various uses of graphics in modern communications.

Art 392. Graduate Printmaking

Either term. Credit as assigned. May be repeated for credit. For Master of Fine Arts students in graphic arts. Permission of instructor required.

The student will be responsible, under direction, for planning his own projects and selecting the media in which he is to work. All members of the staff are available for individual consultation; discussion sessions of works in progress are held.

STUDIO COURSES IN SCULPTURE

Art 331–332. Introductory Sculpture

Throughout the year. Credit three hours a term. For art majors only.

A series of studio problems introducing the student to the basic considerations of artistic expression through three-dimensional design. Modeling in plasteline, building directly in plaster, and casting in plaster.

Art 333–334. Second-year Sculpture

Throughout the year. Credit three hours a term. Prerequisite, Art 332.

The study of more complex problems in design and the interrelation for expressive purposes of design and the materials of sculpture, wood, stone, metals, and some plastic materials.

Art 335. Third-year Sculpture

Fall term. Credit five hours. Prerequisite, Art 334.

Continued study of the principles of sculpture, the selection and expressive use of materials and media. Group discussions and individual criticism.

Art 336N. Third-year Sculpture

Spring term. Offered as part of the New York City Program of the College of Architecture. Prerequisite, Art 335.

The practice of sculpture continued in a stimulating metropolitan environment. Students are encouraged to explore contemporary modes of expression by visits to prominent artists working in New York City, who in turn visit the Program atelier.

Art 337. Fourth-year Sculpture

Fall term. Credit five hours. Prerequisite, Art 336N.

Further study of the art of sculpture through both assigned and independent projects executed in various media. Instruction through group discussions and individual criticism.

Art 338. Senior Thesis in Sculpture

Spring term. Credit five hours. Prerequisite, Art 337.

Advanced sculpture project to demonstrate creative ability and technical proficiency.

Art 393. Graduate Sculpture

Either term. Credit as assigned. May be repeated for credit. For Master of Fine Arts students in sculpture.

The student will be responsible, under direction, for planning his own projects and selecting the media in which he is to work. All members of the staff are available for individual consultation, and weekly discussion sessions of works in progress are held.

STUDIO COURSES IN DRAWING

Art 341–342. First-year Drawing

Throughout the year. Credit two hours a term. For art majors only.

The study of the human figure as a basic drawing course. Studio work provides experiments in visual concentration (memory drawings) and coordi-

nation of hand and eye (contour drawings) as well as the opportunity, in long poses, to combine line and tone in drawings where the relation between anatomical and artistic proportion is studied and design elements are stressed. Contemporary and historical examples of figure drawing are analyzed in discussions.

Art 343–344. Second-year Drawing

Throughout the year. Credit three hours a term. Prerequisite, Art 342.

A continuation of the basic studies undertaken in Art 342, but with both a closer analysis of the structure of the figure and a wider exploitation of its purely pictorial qualities. Students may paint as well as draw.

GRADUATE THESIS

Art 396. Graduate Thesis

Spring term. Credit as assigned.

For graduate students in their last term in the programs in Painting, Sculpture, and Graphics.

GRADUATE COURSES IN ART EDUCATION

Art 394. The Artist as Teacher

Fall term. Credit as assigned.

The problems, methods, theories, and practices of teaching art in the secondary school. Emphasis on the special nature of the artistic process, major modern theories and their application in the classroom. Study of the implication of learning and perception theories. At the same time, the student is actively engaged in studio work, continuing work in the area of his major interest such as painting, sculpture, graphics, or another area in the arts.

Art 395. Teaching Internship

Spring term. Credit as assigned.

Observation and supervised teaching of art in the secondary school.

STUDIO COURSES IN PAINTING, DRAWING, AND SCULPTURE FOR STUDENTS OF ARCHITECTURE

Art 311–312. Introductory Drawing and Painting

Throughout the year. Credit three hours a term.

The elements of representation and two-dimensional composition, involving freehand drawing, the rudiments of perspective, and the handling of water color.

Art 313N. Intermediate Drawing and Painting

Either term. Credit three hours. Prerequisite, Art 312. Given in New York City Program only.

Study of abstract aspects of form, and various modes of design, drawing, and technique.

Art 371. Introductory Sculpture

Either term. Credit three hours.

Introductory course in sculpture. Modeling in plasteline, building directly in plaster, and casting in plaster.

Art 372. Advanced Sculpture

Either term. Credit three hours. Prerequisite, Art 371.

Elective course in sculpture. Work in plaster, wood, stone, metals, plastics, etc.

Art 373. Advanced Sculpture

Either term. Credit three hours. May be repeated for credit. Prerequisite, Art 372.

An elective course for student architects who wish further work in this field. Problems will meet the individual needs of the student.

STUDIO COURSES IN PAINTING, DRAWING, AND SCULPTURE FOR OUT-OF-COLLEGE STUDENTS

Registration limited. Only those students who have registered in the Department of Art Office, 109 Franklin, will be accepted.

Art 300A. Introductory Painting and Drawing

Either term. Credit two or three hours. No prerequisites.

For students not majoring in art who wish an introduction to the basic principles of drawing and painting. Offers the student an opportunity to test and develop his skill and to broaden his understanding of these arts. Studio work with occasional lectures and discussions. No previous experience required.

Art 300B. Introductory Painting and Drawing

Either term. Credit two or three hours. Prerequisite, Art 300A.

A continuation of Art 300A.

Art 330A. Introductory Sculpture

Either term. Credit three hours. No prerequisites.

For students not majoring in art. Offers, through studio work with occasional lectures and discussions, an introduction to the principles of sculpture. The student will work under individual instruction in plasteline, plaster, wood, or metal. No previous experience required.

Art 330B. Introductory Sculpture

Either term. Credit three hours. Prerequisite, Art 330A.

A continuation of Art 330A.

SPECIAL STUDIO COURSE

Art 381. Special Studio

Either term. Credit as assigned. May be repeated for credit.

For transfer students and others whose standing in the professional sequence is to be determined. May be in painting, sculpture, or graphic arts.

CITY AND REGIONAL PLANNING

City planning and regional planning seek to guide the development of the physical environment in order that man's aspirations may be better satisfied. City planning is concerned primarily with understanding urban environment, the social and economic forces that affect it, and the processes of plan making and administration. Regional planning is concerned primarily with economic and resource regions, the forces that generate economic growth, and the ways in which resources can best be used in area development.

The programs of study in this field are graduate programs, and they have two major objectives: professional education for participation in planning and the administration of plans for the physical development of urban areas and regions; and more advanced specialized education for those who seek careers in teaching or research.

Study for the degree of Master of Regional Planning prepares candidates for professional service in city, county, and metropolitan area planning agencies; in state, interstate, and federal agencies concerned with physical planning; in private businesses and other organizations dealing with urban problems; and in private consulting practice. Study for the degree of Doctor of Philosophy offers advanced work for those interested in research and teaching positions in the growing number of graduate and undergraduate planning education programs, or in research positions in governmental agencies, private organizations, or professional practice.

Students in the Department of City and Regional Planning are encouraged to take advantage of the resources in related programs at Cornell. The expanding program of urban research at the University is focused in the Center for Housing and Environmental Studies. The Center for Aerial Photographic Studies and the Statistics Center also provide research programs and assistance which enable the Department and individuals to focus their interests in these fields. The graduate program in city management under the direction of the School of Business and Public Administration offers opportunities for combined programs of study in this field. The location of the Department in the College of Architecture, Art, and Planning provides opportunities for association with work being done in art and in architecture.

Lectures, seminars, studios, and directed research within the Department of City and Regional Planning usually account for about two-thirds of the credit hours in a program of study. Required courses in other departments of the University and

electives from an approved list of courses supplement departmental studies.

In addition to the specialized city and regional planning collection of the College library, the research facilities of the John M. Olin Library and other departmental libraries in law, business and public administration, engineering, housing and design, and agriculture are available for graduate student use.

Master of Regional Planning

Graduate study for the Master's degree is administered by a professional division of the Graduate School. Study at the Master's level provides the basic professional skills in analysis, methods, and techniques of area planning and administration needed for practice in the field of city and regional planning.

ADMISSION REQUIREMENTS

Applicants for the Master's program are expected to hold a Bachelor's degree from a recognized institution. The degree may either be a professional degree from such fields as engineering, planning, architecture, or landscape architecture or an academic degree from the social sciences such as economics, political science, public administration, sociology, or geography or from the humanities such as mathematics or history or other fields.

All applicants resident in the United States during the year preceding matriculation must submit scores of the Graduate Record Examination Aptitude Tests with their other credentials.

FIELD REQUIREMENTS

The course of study for the degree of Master of Regional Planning ordinarily requires two years. Students in the College of Architecture, Art, and Planning or in the School of Civil Engineering at Cornell who are interested in graduate study in city and regional planning may, with the permission of their faculty advisers and approval of the chairman of the Department of City and Regional Planning, follow a specialized undergraduate program which may enable them, if admitted as graduate students, to earn the degree of Master of Regional Planning in three terms of graduate study.

Students in their first year follow a prescribed program of courses which provides training in the basic elements of planning. These include studies in theory, history, analytical methods, design, and administration. The second year provides opportuni-

ties for students to pursue several of these subjects at a more advanced level or to concentrate on intensive studies in a specialized aspect of planning. With the assistance of his faculty adviser, a student may select courses from a list of approved electives in theory and history of urban design, in research and analysis, in administration or in regional studies. Elective courses outside the field but relevant to the specialized interests of the student may also be taken.

A summer office practice and training program is offered in New York City. It is designed to provide work experience in planning agencies and consulting firms in the New York metropolitan area, combined with lectures, seminars, and field trips. Graduate credit is given, but participation in the program is not required for the M.R.P. degree.

For further information about admissions, the course of study, financial aid, and teaching fellowships see page 64 of this Announcement and write the Chairman, Department of City and Regional Planning, Sibley Hall.

CURRICULUM: MASTER OF REGIONAL PLANNING

FIRST YEAR

FALL TERM	CREDIT HOURS
History of City Planning (Planning 700)	3
Principles of City and Regional Planning (Planning 710)	3
Introduction to Human Ecology (Planning 712)	3
Planning Analysis (Planning 730)	4
Introduction to Planning Design (Planning 740)	2
Theory and Practice of Municipal Finance (B.&P.A. 553)	3
TOTAL	18

SPRING TERM	
Legal Aspects of Planning (Planning 723)	2
Advanced Planning Analysis (Planning 731)	4
Planning Methods & Techniques (Planning 734)	2
Planning Design (Planning 741)	4
Elective	4–5
TOTAL	16–17

SECOND YEAR

FALL TERM	
City Planning Administration (Planning 721)	2
Field Problem in Urban Planning (Planning 742)	6
Electives	8
TOTAL	16

SPRING TERM

Thesis in City or Regional Planning (Planning 790)	8
Electives	8
TOTAL	16

ELECTIVE COURSES

Approved electives in each field are listed below according to major areas of concentration. Unless equivalent course work has been completed, two of the four engineering electives, and one of the three housing and renewal electives listed below will be required. Additional electives may be selected from other approved fields or with the approval of the student's adviser.

Bracketed courses are not offered during 1967–68.

Engineering Electives

[Environmental Sanitation (C.E. 2532)] 3
[Traffic Engineering (C.E. 2626)] 3
Analysis and Interpretation of Aerial Photographs (C.E. 2423) 3
Physical Environment Evaluation (C.E. 2421) 3

Housing and Renewal Electives

Seminar in Urban Renewal (Planning 751) 2
The Economics of Housing and Urban Land Use (Planning 753) 3
Fundamentals of Housing (H. & D. 147) 3

Theory, History, and Urban Design

Theory of Architecture (Arch. 423) 3
History of Architecture (Arch. 430–39) 3
Historical Seminars in Architecture (Arch. 450–51) 2
Seminar in the History of American City Planning (Planning 702) 2
Architecture and Planning in the Far East (Planning 704) 3
Introduction to the History of Landscape Architecture and Design (Planning 705) 2
Seminar in the History of Colonial City Planning (Planning 707) 3
Informal Study in the History of City Planning (Planning 709) ..... 2 – 6
Advanced Urban and Regional Theory (Planning 716) 2
Seminar in Urban and Regional Theory (Planning 717) 2
Seminar in Urban Design I (Planning 744) 2
Seminar in Urban Design II (Planning 745) 2
Design and Conservation (Planning 746) 2
Informal Study in Urban Design (Planning 749) ..... 2 – 6

Research and Analysis

Seminar in Current Housing Issues (H. & D. 600) ..... (assigned)
[Readings in Housing (H. & D. 445)] 2
Introduction to Computer Science (I.E. 9481) 4
Introduction to Probability Theory with Engineering Applications (I.E. 9460) 4
Introduction to Statistical Theory with Engineering Applications (I.E. 9470) 4
Operations Research I (I.E. 9522) 3

Operations Research II (I.E. 9523) 3
Digital Systems Simulation (I.E. 9580) 4
Economic and Social Statistics (I. & L.R. 510) 3
Seminar in Urban Ecology (Planning 713) 2
Seminar in Regional Social Accounting (Planning 732) 3
Seminar in Regional Interindustry Analysis and Programming (Planning 733) 3
Research Methods in Planning (Planning 735) 2
Seminar in Urban Geographic Analysis (Planning 736) 2
Operations Research in Planning I (Planning 737) 3
Operations Research in Planning II (Planning 738) 3
Systems Designing (Planning 747) 2
Environmental Health Planning (Planning 770) 2
Informal Study in Environmental Health Planning (Planning 779) .. (assigned)
Techniques of Sociological Research (Soc. 321) 4
[Analysis of Quantitative Data (Soc. 423)] 4
[Analysis of Qualitative Data (Soc. 424)] 4
Urban Communities (Soc. 331) 4
Population Problems (Soc. 330) 4
Introduction to Human Ecology (Soc. 438) 3
International Urbanization (Soc. 433) 4

Planning Administration

Organizational Behavior and Theory (B. & P.A. 120) 2
Personnel Administration and Human Relations (B. & P.A. 121) 2
Governmental Fiscal Management (B. & P.A. 428) 3
Seminar in Urban Government (B. & P.A. 554) 3
Seminar in Public Administration (B. & P.A. 556) 3
Informal Study in Planning Administration (Planning 724) ..... 2 – 6
Informal Study in Legal Aspects of Planning (Planning 725) ..... 2 – 6
Informal Study in Housing and Urban Renewal (Planning 759) ..... 2 – 6
Human Resource Development Problems in the Metropolis (Planning 780) 2
Case Studies in Human Resource Development Planning (Planning 781) 2
Institutional Planning (Planning 785) 2
Informal Studies in Social and Social Facilities Planning (Planning 789) ..... (assigned)
[Public Administration: The Fourth Branch (Govt. 323)] 3

Regional Studies

Agricultural Land Economics (Ag. 452) 4
Economics of Agricultural Development (Ag. 364) 3
Quantitative Methods in Production Economy (Ag. 508) 3
Administration of Public Agricultural Programs (Ag. 637) 2
Sanitary Engineering Colloquium (C.E. 2593) ..... 1 – 2
Water Resource Problems (C.E. 2515) 3
Seminar in Natural Resources Planning and Development (Ag. 602) .. 2
Processes of Economic Growth and Development (Econ. 372) 4
Public Policy and Economic Development (Econ. 371) 4
Seminar in Regional Planning (Planning 760) 2
Soviet and East European Regional and Urban Planning (Planning 762) 2
Informal Study in Regional Planning (Planning 769) ..... (assigned)

Doctor of Philosophy

Graduate study leading to the degree of Doctor of Philosophy is offered under the jurisdiction of the faculty of the Graduate School. A Master's degree in city or regional planning with course work equivalent to that required in the program at Cornell is ordinarily required for admission to candidacy for the Ph.D. degree with a major in planning. Applicants who hold the Master's degree in a related Field and have had acceptable experience in city or regional planning practice, or have completed substantial graduate level course work in planning, may be considered for admission. Such candidates may be required to take additional work at the Master's level.

Each candidate for the Ph.D. degree must complete a program of studies approved by his Special Committee, composed of a chairman representing his major subject and other members of the Graduate Faculty representing minor subjects. Those interested in obtaining the Ph.D. degree should consult the *Announcement of the Graduate School: Social Sciences* for additional information on the requirements for the degree.

The course of study requires work in two minor subjects in addition to the major subject of city planning or regional planning and the preparation of a satisfactory thesis. Minor work is possible in such subjects as administrative engineering, aerial photographic studies, agricultural economics, architectural history, comparative government, econometrics and economic statistics, economic development, economic theory, housing and design, law, natural resources, conservation, operations research, the political process, political theory, public administration, research methodology, sociology, statistics, sanitary engineering, and transportation engineering. In consultation with the chairman of his Special Committee, the Ph.D. candidate will normally select from this list the two minor subjects which best complement his research interests in city or regional planning.

Work for the Ph.D. is considered preparatory to making creative contributions to the field. For that reason, substantial competence and knowledge of basic analytical and research methods will be required. Candidates may fulfill this requirement by preparation previous to entrance or by course work at Cornell which may be in a minor subject in a related Field.

For further information about programs of study, admission, financial aid, and teaching and teaching fellowships see page 64 of this Announcement, and write to the Chairman, Department of City and Regional Planning, Sibley Hall.

Courses of Instruction

The time and place of each course of study and the name of the instructor will be given in a separate memorandum issued by the Department office prior to registration for each term. Most courses in the Department of City and Regional Planning are open to students in any college of the University who have fulfilled the prerequisites and who have the consent of the instructor. In general, an elective course is not offered to fewer than five students.

Staff: Mr. Parsons, Chairman; Messrs. Allderige, Clavel, Czamanski, Feldt, Fisher, Gerard, Golany, Goldsmith, Hamburg, Hugo-Brunt, Hurtt, Jones, Kelly, Lee, Mackesey, Parsons, Reps, Riordan, Seessel, Self, Stein, Winston, and visiting lecturers.

PLANNING HISTORY

Planning 700. History of City Planning

Fall term. Credit three or four hours. Open to graduates and upperclassmen. (Four hours credit optional). Mr. Hugo-Brunt.

Planning 702. Seminar in the History of American City Planning

Spring term. Credit two hours. Prerequisite, Planning 700 or permission of the instructor. Mr. Reps.

Planning 704 (Architecture 435). Architecture and Planning in the Far East

Fall term. Credit three hours. Prerequisite, Architecture 400 or permission of the instructor. Mr. Hugo-Brunt.

An introduction to the evolution of architecture and urbanization in India, China, Thailand, Cambodia, and Japan.

Planning 705. Introduction to the History of Landscape Architecture and Design

Spring term. Credit three hours. Prerequisite, permission of instructor. Mr. Hugo-Brunt.

Classical landscape in the Mediterranean and the Middle East; the Islamic Byzantine tradition; medieval cityscape and the agrarian system; the Renaissance; landscape of gardens in Persia, India, China, Thailand, and Japan. The Victorians; landscape in North America; Colonial landscape; the twentieth century; horticulture and techniques; landscape in contemporary planning and architecture.

Planning 707. Seminar in the History of Colonial City Planning

Spring term. Credit three hours. Prerequisite, permission of instructor. Mr. Hugo-Brunt.

Colonial city and regional planning in Southeast Asia, Africa, South America, and Canada.

Planning 709. Informal Study in the History of City Planning

Either term. Credit as assigned. Open to advanced students by permission. Mr. Hugo-Brunt or Mr. Reps.

URBAN AND REGIONAL THEORY

Planning 710. Principles of City and Regional Planning

Fall term. Credit three hours. Open to graduates and upperclassmen. Mr. Reps.

A review of the basic influences in the development of cities. A general view of the theory and accepted practice of city and regional planning, including a study of the social, economic, and legal phases.

Planning 711. Introduction to Urban Planning

Spring term. Credit one hour. May not be taken for credit by those who have taken Planning 710. Staff.

A concise survey of urban planning for students seeking an introduction to the field.

Planning 712. Introduction to Human Ecology

Fall term. Credit three hours. Mr. Feldt.

An examination of the form and development of the human community with respect to spatial, temporal, and functional patterns of organization. Demographic, environmental, and technological characteristics are treated as parameters relevant to the ecological structure of the community.

Planning 713. Seminar in Urban Ecology

Spring term. Credit two hours. Prerequisite, Planning 712 or equivalent. Mr. Feldt.

An advanced seminar providing intensive coverage of four or five selected topics in human ecology and urban theory. Areas to be covered will be chosen by seminar members from among such subjects as general systems theory, ecological segregation, neighborhood theory, ecological succession, dominance and power, ecological design, urban pathology, optimum population, equilibrium models, social area analysis, urban hierarchy, simulation models, community taxonomy, comparative urban studies, and such other topics as may be adequately defined by seminar members.

Planning 715. Seminar in Industrial Location and Regional Development

Fall term. Credit three hours. Mr. Czamanski.

Topics include interregional location theory and a review of various techniques of selecting optimum locations. The effects of new plants upon regional development are discussed as well as economic problems of declining open regions. Knowledge of mathematics and of modern quantitative methods is not a precondition for admission, but ability to master them during the course is assumed.

Planning 716. Advanced Urban and Regional Theory

Fall term. Credit two hours. Open to advanced students by permission. Mr. Jones.

Seminar in the theory of urban spatial organization. Economic, technologi-

cal, and social factors leading to urbanization and various kinds of spatial organizations will be explored. Major theoretical contributions to the understanding of intra-regional and intra-urban distribution of population and economic activity will be reviewed.

Planning 717. Seminar in Urban and Regional Theory

Spring term. Credit two hours. Open to advanced students by permission. Mr. Lee.

A continuation of Planning 716 concentrating on recent developments.

Planning 719. Informal Study in Urban Regional Theory

Either term. Credit is assigned. Open to advanced students by permission. Mr. Jones.

PLANNING THEORY, ADMINISTRATION, AND IMPLEMENTATION

Planning 721. City Planning Administration

Fall term. Credit two hours. Prerequisite, Planning 710 or permission of the instructor. Mr. Clavel.

An examination of the principal administrative problems in planning, including the organization of the municipal planning agency, office management, relations with legislative bodies and executive departments, public works programming, public relations activities, metropolitan planning agencies, and state and federal planning assistance programs.

Planning 722. Seminar in Planning Theory

Fall term. Credit two hours. Open to advanced students by permission of the instructor. Mr. Jones.

A seminar course consisting of a survey of the works of scholars who have contributed to current thinking about planning theory. The course deals with alternative assumptions concerning models of man and theoretical concepts concerning the nature of planning today.

Planning 723. Legal Aspects of Planning

Spring term. Credit two hours. Prerequisite, Planning 710 or permission of the instructor. Mr. Reps.

Legal aspects of preparing and administering zoning ordinances, subdivision regulations, housing codes, official map regulations, and related subjects.

Planning 724. Informal Study in Planning Administration

Either term. Credit as assigned. Open to advanced students by permission Mr. Self.

Planning 725. Informal Study in Legal Aspects of Planning

Either term. Credit as assigned. Open to advanced students by permission. Mr. Kelly.

Planning 726. Urban Land Policy and Programs

Fall term. Credit two hours. Prerequisite, Planning 723 or permission of the instructor. Mr. Reps.

Consideration of major problems of urban land control and management

and possible solutions. Subjects for discussion include taxation as a method of land-use planning, compensation and betterment, large-scale public land acquisition, subsidies and incentives, and acquisition of development rights or easements. Several public planning systems of other countries will be studied, contrasted with the United States, and evaluated.

PLANNING ANALYSIS

Planning 730. Planning Analysis

Fall term. Credit four hours. Open to graduate students. Mr. Jones.

Introduction to methods of city and regional planning analysis. Planning is considered as a method of decision making with the purpose of achieving a command over the major tools for problem identification, analysis, and resolution. Laboratory in governmental information systems.

Planning 731. Advanced Planning Analysis

Spring term. Credit four hours. Prerequisite, Planning 730. Messrs. Lee and Czamanski.

City planning applications of general analytical techniques of social sciences; population, economic, land-use, and transportation models.

Planning 732. Seminar in Regional Social Accounting

Fall term. Credit three hours. Mr. Czamanski.

An advanced seminar in methods of constructing and regional applications of social accounting. Topics covered include income and product accounts, balance of payments, money flows, wealth accounting. Extensive references are made to methods used in various countries and to recent regional case studies.

Planning 733. Seminar in Regional Interindustry Analysis and Programming

Spring term. Credit three hours. Mr. Czamanski.

Advanced treatment of regional industrial structure, methods of construction and applications of input-output, linear programming, integer and nonlinear programming, elements of game theory.

Planning 734. Planning Methods and Techniques

Spring term. Credit two hours. Prerequisite, Planning 710 or permission of the instructor. Mr. Parsons.

Standards and survey methods for measuring education, recreation, and other community facility needs. Commercial, industrial, and residential land-use planning; transportation, housing, and environmental quality surveys.

[Planning 735. Research Methods in Planning]

Spring term. Credit two hours. Mr. Feldt. Not offered in 1967–68.

Basic coverage of some of the more common research techniques used in the social sciences, including a survey of basic data sources, methods of survey research, ecological methods, and some of the more fundamental statistical methods. A number of the methods covered will be utilized in developing a major research report in conjunction with requirements for the following year's field problem.

[Planning 736. Seminar in Urban Geographic Analysis]

Fall term. Credit two hours. Mr. Fisher. Not offered in 1967–68.

Urban geography as related to the professional field of geography. Includes an introduction to the discipline of geography as a basis for an intensive review of the fundamental concepts and literature in the field of urban geography. Essential techniques of urban spatial analysis applicable to the field of urban planning. Historical interpretation methods relevant to the understanding of contemporary urban areas. Field and analytical methods of urban geography applied in case studies.

Planning 737. Operations Research in Planning I

Fall term. Credit three hours. Prerequisite, Planning 731. Mr. Allderige.

Examination of basic systems models developed in industrial operations research. Their applicability to planning is studied. Models considered are simple linear, regressive, matrix, algebraic, elementary queuing, linear programming, and assignment. Also studied are introductory concepts of modeling and intermediate sampling processes.

Planning 738. Operations Research in Planning II

Spring term. Credit three hours. Prerequisite, Planning 737. Mr. Allderige.

Advanced examination of more extensive systems models developed in industrial operations research and their applicability to planning. Considered, along with expanded changes of models studied in Planning 737, are complex regression analysis, factor analysis, simulation, stochastic processes, and competitive strategies. Emphasis on theories of the modeling process and an introduction to public systems design.

Planning 739. Informal Study in Planning Analysis

Credit as assigned. Open to advanced students by permission. Mr. Hamburg.

PLANNING DESIGN AND PRACTICE

Planning 740. Introduction to Planning Design

Fall term. Credit two hours. Required of all graduate planning students without undergraduate training in design. Mr. Stein.

Introduction to the tools of physical design and graphic presentation. Investigation of the sources of basic information for physical design, the formulation of a physical design program, the preparation of solutions to elementary design problems and presentation techniques.

Planning 741. Planning Design

Spring term. Credit four hours. Limited to graduate students. Graduate students in architecture may substitute one or more of the problems for required design studies in Architecture 190 with permission of their adviser. Messrs. Stein, Parsons, and visiting lecturers.

Lectures, seminars and problems in the basic principles of site planning, subdivision, large-scale three-dimensional design, and the interrelationships of land uses in a variety of urban and metropolitan situations. Alternative patterns of urban development and their implications will be examined. Students are assigned a series of problems including the design of the neighborhood, the district, parts of the existing city, and the new town. Students will work individually and in teams.

Planning 742. Field Problem in Urban Planning

Fall term. Credit six hours. Prerequisites, Planning 731 and 741 or permission of the instructor. Messrs. Stein, Parsons, Feldt, Gerard, and visiting lecturers.

Research and analysis in an urban area leading to the preparation of comprehensive plans and effectuation programs; use of operational gaming techniques in the planning process; lectures, field trips, and individual and group reports.

Planning 743. City Planning Practice

Summer term. Credit three hours. Open to graduate students in planning and others by permission. Messrs. Stein, Parsons, staff, and visiting lecturers.

Summer internship in New York metropolitan area in public planning and development and renewal agencies or in planning consultants' offices, combined with lectures and discussions two evenings a week and field trips in the New York area and to other east coast cities. (Instruction period for the course in the College of Architecture New York City Program facilities is limited to July and August.)

Planning 744. Seminar in Urban Design I

Fall term. Credit two hours. Prerequisites, Architecture 105 or Planning 740 and permission of the instructor. Mr. Parsons.

Investigation of historical and current thought on the visual aspects of cities, including evaluation of technological and cultural influences on urban design, perception of urban form, and relationships between contemporary city planning process and visual form in cities.

[Planning 745. Seminar in Urban Design II]

Spring term. Credit two hours. Prerequisite, Planning 744 or permission of the instructor. Mr. Stein. Not offered in 1967–68.

Case studies of urban design projects presented by various faculty members and visitors plus independent research to allow students to pursue urban design issues in depth.

Planning 746 (Architecture 465). Design and Conservation

Fall term. Credit two hours. Messrs. Jacobs and Jones.

The rationale for and methods of utilizing existing cultural and aesthetic resources in the planning and design of regions and cities.

Planning 747. Systems Designing

Spring term. Credit two hours. Prerequisite, Planning 731. Mr. Allderige.

Thorough study of the designing process in the planning context. Using first simple, then complex examples, the aim is to define the designing process explicitly, then explore different formal and informal methods of producing public systems designs or plans.

Planning 748. Workshop in Heuristic Gaming Techniques

Fall term. Credit two hours. Limited enrollment with priority to students taking the planning field problem currently. Mr. Feldt and staff.

Exploration and use of a limited number of heuristic gaming devices dealing with problems in planning and urban theory. Special attention will be given to models representing the community under analysis in the field problem as well as to models dealing with more abstracted urban and regional configurations.

Planning 749. Informal Study in Urban Design

Either term. Open to advanced students by permission. Staff.

URBAN RENEWAL AND HOUSING

Planning 751. Seminar in Urban Renewal

Spring term. Credit two hours. Prerequisite, Planning 710 or permission of the instructor. Mr. Winston.

An exploration of current programs to revitalize our cities, the concepts of blight and urban renewal, and discussion of current policies and procedures in federal, state, and local government.

Planning 753. The Economics of Intrametropolitan Land Use

Spring term. Credit two hours. Open to advanced students by permission. Mr. Czamanski.

The spatial arrangement of urban functions, value as determinant of land use, measurement methods, urban structures and forms, public interest and controls, urban renewal and redevelopment, social and economic costs and benefits. Location of residential and industrial areas and retail center.

Planning 759. Informal Study in Housing and Urban Renewal

Either term. Open to advanced students by permission. Messrs. Kelly, Parsons, and Stein.

REGIONAL AND COMPARATIVE PLANNING

Planning 760. Seminar in Regional Planning

Fall term. Credit two hours. Prerequisite, Planning 710 or permission of the instructor. Mr. Goldsmith.

Designed as the basic course in regional planning. The guide lines of regional planning and the nature of regional planning under various social and economic conditions. An introduction to regional planning techniques and methodology, and a survey of the character of regional planning in several countries.

[Planning 761. State Planning]

Spring term. Credit two hours. Prerequisite, Planning 760 or permission of the instructor. Mr. Fisher. Not offered in 1967–68.

History of state planning and the current status and trends in state planning in the United States. Emphasis will be given to an analysis of contemporary state planning functions, administrative position of the state planning agency, federal-state relations, state and regional planning, coordination of the state planning agency and other state agencies, and the place of functional planning at the state level.

[Planning 762. Soviet and East European Regional and Urban Planning]

Fall term. Credit two hours. Prerequisite, Planning 710 or permission of the instructor. Mr. Fisher. Not offered in 1967–68.

Brief survey of the history, contemporary organization, and trends of Soviet

and East European Planning. Intended to provide an understanding of the professional nature of Soviet and East European planning, a familiarization with basic planning literature, and an introduction to Soviet and East European planning techniques. Contrasts between the Soviet and the East European organization and approach will be stressed.

Planning 763. Regional Planning and Development in Developing Countries

Spring term. Credit two hours. Prerequisite, Planning 760 or permission of the instructor. Mr. Golany.

The status of regional planning in developing countries. The strategy of regional development and implementation of physical planning goals. Examination of regional planning activities in two or three countries and evaluation of project implementation and effectiveness.

[Planning 767. Informal Study in Urban Geography]

Credit as assigned. Open to advanced students by permission. Mr. Fisher. Not offered 1967–68.

Planning 768. Informal Study in Comparative Regional Planning

Either term. Credit as assigned. Open to advanced students by permission. Mr. Golany.

Planning 769. Informal Study in Regional Planning

Either term. Credit as assigned. Open to advanced students by permission. Staff.

ENVIRONMENTAL HEALTH PLANNING

Planning 770. Environmental Health Planning

Fall term. Credit two hours. Messrs. Jones and Riordan.

Introduction to concepts and issues in environmental health planning. Topics covered include the planning problems involved in the control of water quality, liquid and solid waste disposal, air quality, and housing quality.

Planning 771. Environmental Health Planning Models

Spring term. Credit two hours. Mr. Riordan.

Survey and discussion of current efforts to use quantitative methods in analysis, design, and implementation in the environmental health planning process. Specific applications of mathematical modeling to the problems of planning for the management and control of wastes discharged to air, water, and land resources will be examined. Techniques discussed will include: linear programming, dynamic programming, diffusion models, regression and correlation analysis, and simulation.

Planning 774. Seminar in Neighborhood Theory

Spring term. Credit three hours. Limited enrollment with consent of instructors required. Messrs. Feldt and Stein.

An examination of the concept of neighborhood in urban society based upon a consideration of the interrelationship between design elements and human behavior. Major theoretical and empirical approaches to the neighborhood will be reviewed and placed in the context of recently developing thought, practice, and research in urban planning theory.

Planning 775. Neighborhood Theory

Fall term. Credit three hours. Prerequisite, Planning 774 or permission of the instructor. Messrs. Hurtt, Stein, and Feldt.

An advanced seminar on neighborhood theory continuing the exploration of physical and social relationships in the design of the residential environment. Special emphasis is given to the decisions of the urban designer and the architect concerning physical aspects of neighborhood and environmental health planning and their relevance to social and psychological goals.

Planning 779. Informal Study in Environmental Health Planning

Either term. Credit as assigned. Open to advanced students by permission. Staff.

SOCIAL AND SOCIAL FACILITIES PLANNING

[Planning 780. Human Resource Development Problems in the Metropolis]

Fall term. Credit two hours. Not offered in 1967–68.

Introduction to systems of planning for human resource development. Review of social, health, and educational problems and programs, and their relationship to urban development.

Planning 781. Case Studies in Human Resource Development Planning

Spring term. Credit two hours. Mr. Seessel.

A review of methods and techniques of planning for human resource development. Specific illustrations from the fields of social, health and educational planning, as well as more comprehensive social planning efforts, will be examined.

Planning 785. Institutional Planning

Spring term. Credit two hours. Prerequisites, Planning 710 or 730 or permission of the instructor. Mr. Parsons.

A seminar in programming and area planning of facilities for institutions including universities, medical centers, and churches. Administrative organization, space use studies, program development, location and function analysis, enrollment projection, and institutional systems. Application of city planning techniques to institutional planning.

Planning 789. Informal Studies in Social and Social Facilities Planning

Either term. Credit as assigned. Staff.

THESES

Planning 790. Thesis in City or Regional Planning

Either term. Credit as assigned.

Independent research by candidates for the Master's degree.

Planning 799. Dissertation in City or Regional Planning

Either term. Credit as assigned.

Advanced independent research by candidates for the Ph.D. degree.

GENERAL INFORMATION

Undergraduates

ADMISSION

As a general policy, Cornell University welcomes applications for admission from all those who are interested in studying at Cornell regardless of race, religion, or creed. Selection of students is not governed in any way by those factors. The University is proud of the cosmopolitan makeup of its student body, believes in the educational values inherent in bringing to the campus persons of widely different backgrounds, and directs its admissions policy to the preservation of this fundamental characteristic. In choosing from among candidates of approximately equal qualifications, some preference may be given to those whose homes are in areas not adequately represented in the student body.

The number of students that may be admitted each year in each program, undergraduate and graduate, is limited. Preference is given to those applicants whose academic preparation and character show greatest evidence of professional promise.

A maximum of sixty students a year matriculate in the program in architecture; the entering class in art is limited to thirty students. Those selected for admission must have demonstrated, without question, through their previous schooling the intellectual capacity to carry the classroom work and to profit from the instruction offered. Intellectual preparedness is judged by the candidate's whole secondary school record, the recommendations of his school principal, and the Scholastic Aptitude Test of the College Entrance Examination Board.

The intangible, but important, factors which go to make up a person of good character, personal integrity, and effective personality receive full consideration by the selection committee. Capacity for creative work and degree of motivation for a specific field of professional education are basic considerations.

Prospective students should write to the Office of Admissions, Day Hall, Cornell University, Ithaca, New York 14850, for forms to be used in making application for admission. Applications for admission must be received at the University in ample time to allow credentials to be assembled, required tests to be completed, and the application to be reviewed by the Committee on Admissions. Secondary school students should, if possible, initiate their applications in the fall of the year preceding matriculation in college. Undergraduate applications for entrance in the College of Architecture, Art, and Planning should be completed by

January 15. Graduate applications are considered separately and may be received until March 15, or later if places remain to be filled.

Every undergraduate applicant should plan to come to Ithaca during the fall term preceding the year for which he has made application, if at all possible, for a visit to the College and an interview with a member of its Committee on Admissions. An appointment for this interview can be made by writing directly to the Office of the Dean, College of Architecture, Art, and Planning, Sibley Hall, Ithaca, New York 14850. Interviews will also be arranged in cities across the country during the month of February, and those who have not been able to come to Ithaca will be sent a list of these locations and times. A prospective art student who has a portfolio of his work may bring it with him to his interview if he desires.

Requirements for Admission. All candidates for admission to the College must take the Scholastic Aptitude Test of the College Entrance Examination Board. Entrance credit on the basis of the school record will be granted only in those subjects in which the candidate has attained the college recommending mark of the school.

Three years of a foreign language, ancient or modern, are required for entrance. Candidates who have less than three years of preparation in a foreign language, but who make a satisfactory score on the achievement test, may meet the requirement. When the required language credit is not offered for admission, a letter of explanation of this deficiency must be sent to the Committee on Admissions for its consideration. If the applicant is admitted, the language requirement must be satisfied before graduation. If an applicant plans to continue in college the study of a language he has already begun, the College advises him to take the College Entrance Examination Board Achievement Test in that language, for placement in the proper course. Three college credits in a language are considered, for the purpose of making up the entrance requirement while in college, to be equivalent to one year of high school language credit.

Candidates for admission to the College must demonstrate satisfactory knowledge of the following subjects:

Architecture (B.Arch.) Sixteen units including English 4; mathematics 4; foreign language 3 (see above).

Mathematics must include intermediate algebra, plane geometry, and trigonometry, taken either as separate courses or included within comprehensive mathematics courses.

An acceptable course in physics, taken either in secondary school or in college, is required for graduation.

The program in architecture is purely professional in objective. Only those who are seriously interested in careers in architecture should make application for admission. Every candidate for admission is advised to read professional literature, visit professional offices, talk with students of architecture or recent graduates, and otherwise inform himself about the field. It is usually wise to resolve serious doubts in favor of starting with a program of general education.

Art (B.F.A.) Sixteen units including English 4; college preparatory mathematics 2; foreign language 3 (see above). Remaining units should, in the main, consist of science and social studies (including history).

Military Training. As a land-grant institution chartered under the Morrill Act of 1862, Cornell has offered instruction in military science for more than ninety years. This instruction is provided through the ROTC programs of the three military departments, the Army, the Navy, and the Air Force.

These programs offer a male student the opportunity to earn a commission while he is completing his education, thus enabling him to fulfill his military commitment as an officer rather than through the draft. Participation in ROTC is voluntary. Interested students should consult the *Announcement of Officer Education*.

Physical Education. All undergraduate students must complete four terms of work in physical education. This requirement must be completed in the first two years of residence; postponements are to be allowed only by consent of the University Faculty Committee on Requirements for Graduation.

Exemption from this requirement may be made by the committee designated above when it is recommended by the Cornell medical staff; or when unusual conditions of age, residence, or outside responsibilities require it.

For a student entering with advanced standing, the number of terms of physical education required is to be reduced by the number of terms which the student has satisfactorily completed (whether or not physical education was included in his program) in a college of recognized standing.

Publications describing the courses offered will be made available to entering students by the Department of Physical Education.

University Health Requirements. Each entering student, graduate or undergraduate, is expected to assume personal respon-

sibility for the health requirements adopted by the Board of Trustees of Cornell University. Prospective students should consult the *Announcement of General Information*. Permission to register for a new semester will not be granted unless all health requirements pertaining to the previous semester have been fulfilled.

Transfer Students. A student who has already attended another institution of collegiate rank is admitted at the beginning of the fall term. The applicant is required to meet all entrance requirements and to comply with the rules governing admission. In addition, he should file with the Office of Admissions, Day Hall, an official transcript of record of his work at the institution already attended, together with a certificate of honorable dismissal therefrom. He should also be prepared to send, if requested, a catalog of that institution, writing his name thereon, and marking the courses he has taken as listed in the transcript. The Scholastic Aptitude Test of the College Entrance Examination Board is required.

Admission as a Special Student. A person, especially one of comparative maturity, may, in certain circumstances, even without satisfying the entrance requirements, be admitted as a special student not a candidate for a degree. The applicant must give evidence of ability to do creditable work in the College, and his application for admission must be recommended by the department in which he proposes to do the main part of his work. He must file his application with the Office of Admissions, Edmund Ezra Day Hall.

If a person admitted as a special student without satisfying the entrance requirements subsequently satisfies those requirements, he may be graduated under the ordinary regulations of the College.

Special students in the College of Architecture, Art, and Planning must be at least twenty-one years of age.

EXPENSES

Living costs depend to a great extent upon the individual's standard of living. Recent estimates indicate that men students spend between $1,000 to $1,500 a year for room and board. Laundry and cleaning, done in Ithaca, may require $80 to $100 a term. Books, instruments, and other supplies will cost between $100 and $200 a year. Additional allowance must be made for clothing, travel, and incidentals.

Room and board for women is likely to cost between $916 and $1,106 a year. Physical education equipment costs $25.

Undergraduate students should refer to the *Announcement of General Information* for the amounts of the tuition and the General Fee, as well as details concerning payment.

UNIVERSITY SUMMER SESSION

It is usual for the Department of Art to offer certain studio courses as part of the University's six- or eight-week summer school program. Further particulars can be obtained from the Division of Summer Session and Extramural Courses, Cornell University.

Special summer conferences and institutes are offered in addition, principally by the graduate program in City and Regional Planning. Particulars regarding these special offerings may be obtained from the College.

SUMMER TERM IN ARCHITECTURE

Whenever there is student demand and an adequate faculty available, a summer term will be offered at both graduate and undergraduate levels in the field of architecture. The term is usually of ten weeks' duration and carries credit for successful work.

At the undergraduate level the time is devoted exclusively to one subject, architectural design. Ten hours of credit will be given for successful completion of the work, and it will be considered one term of design as required in the curriculum. The number of hours of credit in excess of those required for the sequence of study may be allocated to elective credit hours.

Registration will be limited to students of satisfactory standing who have completed the sophomore year of study. Two summer terms in consecutive years will not be permitted without the approval of the faculty.

Students from schools of architecture other than Cornell are invited to apply to the College for admission to the program.

At the graduate level, the summer term is devoted to problems forming part of the student's program of work. The term may carry residence credit equal to that of a normal academic term. Participation in the program cannot be undertaken without the consent of the student's adviser.

UNDERGRADUATE SCHOLARSHIPS

Prospective students requiring financial assistance should write to the Office of Scholarships and Financial Aid, Cornell Uni-

versity, Day Hall, Ithaca, New York 14850; students in residence should call in person at that office.

As one of the more than 200 colleges that are members of the College Scholarship Service, Cornell follows the general policies as outlined by that organization. Scholarship awards are made on the basis of academic achievement and promise, but the actual cash stipends vary according to the financial need of the applicant. As a matter of policy every effort is made by means of scholarship aid and the student work and loan programs to make it financially possible for students of promise to come to and remain at Cornell.

Financial assistance is awarded through scholarships and long- and short-term loans available to students in all branches of the University, and through scholarships administered by the various colleges.

The scholarships described below are awarded by the Scholarship Committee of the College of Architecture, Art, and Planning. All awards are made on the basis of promise and need.

Dean's Scholarships. The University has made available annually approximately $45,000 which may be awarded to undergraduate students, including entering students, in architecture and art.

Gillespie Prize Scholarships. Scholarships totaling $800 may be awarded each year to fourth- or fifth-year students in architecture. These awards are made from the bequest of a former student of the College, the late Albert D. Gillespie, and are granted on the basis of general academic performance and need.

Eschweiler Prize Scholarship. This award is made from a bequest of Alexander C. Eschweiler, Jr., '15, in memory of his father, Alexander C. Eschweiler, Sr., '90. An annual award of approximately $700 is open to undergraduate students in architecture.

Sargent, Webster, Crenshaw and Folley Scholarship. Open to students in architecture. Awarded on the basis of general academic performance and need. The scholarship is a gift from Sargent, Webster, Crenshaw and Folley, Architects. Annual award, $350.

The Waldo S. Kellogg Scholarship Fund. Through a bequest made by Mrs. Frances E. Osborne Kellogg in memory of her husband, Waldo S. Kellogg '93, $5,000 is available annually to students in the undergraduate and graduate programs in architecture.

H. R. Dowswell Scholarship Fund. Open to a student in the College who stands in the top quarter of his class academically, who has a good personality, and who has demonstrated qualities of leadership. This fund was established by Col. John R. Dowswell and Mrs. Harold E. Van Der Linde in memory of their father. Annual award, $700.

Nancy A. Bernstein Scholarship. Open to a promising undergraduate woman in art in need of financial assistance. This scholarship is granted from a fund established by Mr. and Mrs. Nathan C. Bernstein and Margaret Bernstein in memory of Nancy A. Bernstein '49. Annual award, $700.

The Charles A. Holcomb Memorial Scholarship of $200 was established in 1963 by Mrs. Holcomb in memory of her husband, who received his B.Arch. degree from Cornell in 1920. It is to be awarded to a student, preferably a sophomore, in the College.

George Louis Coleman Scholarships. These scholarships were established for students in the College in 1965 through a bequest of Louise Gertrude Coleman, in memory of her husband, a devoted alumnus of Cornell, B.S. in Architecture '95.

TRAVELING FELLOWSHIPS

The John W. Root Traveling Scholarship is an annual award of $1,500, open to any student in the College whose record indicates excellence in planning and design or in any other phase of architecture for which he or she evidences a potential. This award was established in 1964 by the partners of Holabird and Root as a memorial to John W. Root '09.

The Robert James Eidlitz Fellowship, the gift of Sadie Boulton Eidlitz, is available to persons who hold a degree in architecture from Cornell or who are now graduate students in architecture at Cornell. Its purpose is to supplement the professional training, by foreign travel or in other ways, of those who could not otherwise afford it. The income of the fund, $2,200 per year, may be awarded to one or more candidates.

MEDALS AND PRIZES

The Charles Goodwin Sands Memorial Medal, founded in 1900 by the family of Charles Goodwin Sands of the Class of 1890, may be awarded for work of exceptional merit done by a student in courses in architectural design, or by a student in the art curriculum for work of exceptional merit in painting and composi-

tion or sculpture. Theses in architecture or painting and sculpture are eligible for medal consideration. Two grades of this medal, the silver and the bronze, are recognized.

The Clifton Beckwith Brown Memorial Medal was established in 1901 by John Harkness Brown in memory of his brother, Clifton Beckwith Brown of the Class of 1900, who was killed on the field of battle at San Juan Hill. A silver replica is awarded by the faculty to that member of the graduating class who has attained the highest standing in Courses 107, 108, 109, and 110. The award is withheld if the standard is not considerably higher than that required for graduation.

The Faculty Medal in Art is awarded each year to the member of the graduating class in the curriculum in art who, by his academic record and work in the studio, has, in the estimation of the faculty, shown the greatest promise of future achievement in the field of art.

Andrew Dickson White Museum Student Art Purchase Prize. The fund has been established by an anonymous donor, the income to provide prize money for the purchase of works of art made by students as part of their regular University class work.

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

The Fuertes Memorial Prizes in Public Speaking, founded in 1912 by Charles H. Baker, a graduate of the School of Civil Engineering of the Class of 1886, are offered annually to members of the junior and senior classes in the Colleges of Engineering and Architecture, Art, and Planning for excellence in public speaking. The three prizes are of $80, $40, and $20.

The Paul Dickinson Prize, established in 1927 by Mrs. George A. Shedden of the Class of 1923 in memory of her father, is awarded to the student in the first-year class of the College who has attained the highest record. This prize is not awarded unless the record is well above the average of the first-year work in the College.

The Edwin A. Seipp Memorial Prizes, one of $45 and one of $25, were established in 1948 by Mrs. E. A. Seipp in memory of her husband, an alumnus of the Class of 1905. They are awarded as first and second prizes in a special competition in third-year design.

The Baird Prizes, one of $25 and one of $15, are awarded as first and second prizes in a special problem competition in second-year design. The fund, established in 1927, was the gift of Mrs. M. Z. Baird.

The Edward Palmer York Memorial Prizes, one of $25 and one of $15, are awarded as first and second prizes in special competition for students in introductory design. The problem, lasting approximately one week, is given in the second term. The fund, established in 1931, was the gift of Mrs. Edward P. York.

The New York Society of Architects' Medal and Certificate are awarded annually to that senior student who, in the opinion of the faculty and the society's committee, is the leader of his class in total design – that is, design, planning and construction.

The Alpha Rho Chi Medal is awarded by Alpha Rho Chi, a professional architectural fraternity, to a student in the graduating class who has shown ability for leadership, has performed service to the school, and gives promise of professional merit through his attitude and personality.

The Edith and Walter King Stone Memorial Prizes, awarded to juniors at the end of their third year. Given on the basis of promise and accomplishment in the field of art.

The Otto R. Eggers Memorial Prize ($500) was established in 1965 by Eggers and Higgins, architects. Awarded annually in design, it is for excellence in graphic presentation throughout the year, judged for the degree of clarity, completeness, and conviction with which it performs its function.

The Mackesey Prize, in honor of former Dean of this College Thomas W. Mackesey, is awarded to a candidate for a degree in City and Regional Planning who has demonstrated unusual competence in his academic work or who, by his qualities of personality or leadership, has significantly contributed to the intellectual advancement of his fellow students.

The American Institute of Planners Student Award is presented to a candidate for the professional degree in planning (M.R.P.), in recognition of outstanding ability. The qualities to be identified include consistently high academic record, leadership ability, maturity, research ability, and professional promise.

The Peter B. Andrews Memorial Thesis Prize is awarded for the best thesis prepared for the degree of Master of Regional Planning. It is granted from the income of a fund established

by Mrs. Peter B. Andrews and Dr. George C. Andrews in memory of Peter B. Andrews, B.Arch. '55, M.R.P. '57.

Graduate Students

ADMISSION AND RELATED INFORMATION

Graduate programs in the College of Architecture, Art, and Planning are of two general types, requiring different admissions procedures. First, professional programs leading to the degrees of Master of Architecture (Urban Design), Master of Fine Arts, and Master of Regional Planning are formally under the jurisdiction of the Division of Architecture and Fine Arts of the Graduate School, and candidates for admission should apply for the necessary forms to the *Dean, College of Architecture, Art, and Planning, Sibley Hall, Cornell University, Ithaca, New York 14850.*

Second, academic programs leading to the degrees of Master of Science (Architectural Structures), Master of Arts (Architectural History), and Doctor of Philosophy (Architectural History, City and Regional Planning) are formally under the jurisdiction of the Dean of the Graduate School, and candidates for admission should apply for the necessary forms to the *Graduate School, Sage Graduate Center, Cornell University, Ithaca, New York 14850,* sending a copy of the letter to the Dean, College of Architecture, so that the College may know when an application is in process. Regulations governing the students in these academic programs may be found in the *Announcement of the Graduate School: Humanities.*

Graduate applications for study in architecture, art, or city and regional planning should be completed by February 1 in order to be considered for awards of fellowships, scholarships, and other financial aids, but may be received until March 15. When places remain to be filled, later applications will be accepted. The applications from United States citizens and from foreign applicants who reside in the United States and Canada must be accompanied by a $15 nonrefundable application fee. Foreign applicants residing elsewhere who have been accepted for admission must pay this application fee before registration.

Foreign students whose undergraduate training has been outside the United States are admitted to provisional candidacy during the first semester, during which their qualifications to continue in their selected programs will be evaluated. In most cases, they should plan to spend at least four terms in residence.

Foreign applicants whose native language is not English, but

who received their secondary school or their university education in the English language, must submit a statement certifying to this, signed by a responsible officer of a United States Embassy or Consulate or by an appropriate official of the educational institution involved. All other foreign applicants must take the National Council Test of English as a Foreign Language by arrangement with the Educational Testing Service, Princeton, New Jersey 08540, U.S.A., or the Michigan English Language Test by arrangement with the English Language Institute, University of Michigan, Ann Arbor, Michigan 48104, U.S.A. In either case, the test scores must be reported directly by the testing organization to the Graduate School as part of the essential application information, and no final action on applications will be taken until the scores have been received. Both testing programs are available throughout the world. Information on times and places for administration of the tests may be obtained directly from the addresses given above. Since these tests are diagnostic, admission to those applicants whose scores indicate unsatisfactory command of English may be denied, or it may be made contingent upon evidence of improved command of English.

All applicants for admission to the programs in architectural history, architectural structures, and city and regional planning who are currently residing in the United States are required to take the Graduate Record Examination (GRE) Aptitude (Verbal and Quantitative) Tests of the Educational Testing Service, and to have the scores sent to the College or to the Graduate School as part of their application materials. Information about the times and places of test administration may be obtained directly from the Educational Testing Service, Princeton, New Jersey, 08540.

Expenses. Living costs depend to a great extent upon the individual's standard of living. Recent estimates indicate that students spend approximately $190 a month for room and board. Books, instruments, and other supplies will cost about $200 a year. Additional allowance must be made for clothing, laundry, travel, and incidentals.

Graduate students should refer to the appropriate *Announcement of the Graduate School* for information about tuition and fees.

University Health Requirements. Health requirements for graduate students who are entering Cornell or who have been absent from the University for more than a year have been adopted by the trustees of Cornell University (see the *Announcement of General Information*). The responsibility for fulfilling these requirements rests upon the student.

Graduation Requirements. Each candidate for a Master's degree follows a special program of study worked out in consultation with a faculty adviser who is assigned by his department. A satisfactory thesis is required of every candidate for the Master's degree. In the case of a candidate for the M.F.A. degree, the thesis consists of one or more original works of art supplemented by a critical essay on an approved subject. Two bound copies of the thesis, prepared according to approved standards, must be submitted.

A final examination, arranged by the faculty adviser, must be passed in order to qualify for the Master's degree. The examination may be written or oral at the discretion of the faculty.

Military Science. Courses in military science are open to graduate students who have certain specified qualifications. Those graduate students who are interested should apply to the Professor of Military Science, Barton Hall.

The courses available are described in the *Announcement of Officer Education,* which may be obtained by writing to the Announcements Office, Edmund Ezra Day Hall.

FINANCIAL ASSISTANCE

Fellowships and Scholarships. The *Announcement of the Graduate School: Humanities* carries full information about Cornell University graduate fellowships and scholarships for which both entering students and students in residence are eligible. These awards are made by the Fellowship Board of the Graduate School. Graduate fellowships carry stipends of from $1,600 to $2,200 plus tuition and fees; graduate scholarships cover full tuition and fees. Application forms may be obtained from the Office of the Graduate School.

The Eschweiler and Kellogg Scholarships and the Eidlitz Fellowships, described earlier in reference to undergraduates, are also available to graduate students in Architecture.

Teaching Fellowships. Sixteen teaching fellowships are awarded by the College of Architecture, Art, and Planning. Fellows are assigned to aid in the instruction in the various areas of study offered by the College: architectural design, structures, city and regional planning, architectural history, painting, and sculpture. Fellowships carry a stipend of between $1,800 and $2,400, depending on degree and residence status, plus tuition and fees. (Applicants must submit the financial statement form which is required with applications for University scholarships.)

Residence Hall Assistantships. A number of residence assistantships are available in the University residence halls for men and women graduate students. Remuneration varies from room only to room and board plus a stipend. A few assistantships open to married men provide an apartment plus a stipend. Applications should be addressed to the Office of the Dean of Students, Day Hall, Cornell University, Ithaca, New York 14850.

Loans. University, New York State, and National Defense student loans are available to graduate students at Cornell. Applications should be made through the Office of Scholarships and Financial Aid, Day Hall, Cornell University, Ithaca, New York 14850.

Additional Sources of Assistance. Prospective graduate students are reminded that there are a number of private agencies and foundations which offer scholarships for highly qualified students. The American Institute of Architects, for instance, awards a number of such scholarships annually, while the Sears-Roebuck Foundation, Pittsburgh Plate Glass, and the Lasker Trust offer fellowships to students of city and regional planning. Application forms for the latter fellowships are available from the Department of City and Regional Planning.

The Department also awards a number of Richard King Mellon Fellowships in city planning and urban renewal for study in the M.R.P. program and several three-year National Institute of Health Traineeships for study in the Ph.D. program in planning.

Prospective students of city planning who are U.S. citizens should also investigate the New York State Regents Herbert H. Lehman Fellowships in the Social Sciences and Public and International Affairs. Information may be obtained from the Regents Examination and Fellowship Center, State Education Department, Albany, New York 12224.

Prospective foreign students should investigate awards under the fellowship program of the Organization of American States, the United Nations, United States Fulbright Commissions in many foreign countries, and the United States Agency for International Development. The United Nations publication, *Study Abroad,* lists thousands of scholarships and fellowships, many of them for study in the United States by citizens of other countries.

Facilities and Services

Buildings. The College occupies Sibley Hall, Franklin Hall, and the Foundry, all recently remodeled for its purposes. In Sibley are the facilities for Architecture and City and Regional Planning as

well as the administrative offices and the Fine Arts Library. The Department of Art is housed in Franklin. Sculpture and shop facilities are in the Foundry.

Through the generosity of the late Mrs. Lillian P. Heller, the College has acquired the home of William H. Miller, the first student to enroll for the study of architecture at Cornell and later a practicing architect in Ithaca. This building is used to house visiting teachers and guests of the College and for occasional receptions and social events.

Libraries. The Fine Arts Library in Sibley Dome serves the College of Architecture, Art, and Planning through its collections on architecture, fine arts, and city and regional planning. A library of over 40,000 books, including 10,000 in the planning collection, it is capable of supporting undergraduate, graduate, and research programs. Some 1,500 serials are currently received and maintained for reference and recreation. In addition to a large collection of planning pamphlets and maps, the library has a growing collection of materials on the visual arts, including motion picture films, sound tapes, photographs, color prints, and microfilms.

The College maintains in Sibley Hall a slide library containing extensive files of lantern slides of architectural history and a large and growing collection of slides of art and architecture from all parts of the world. The library now includes approximately 100,000 slides.

The facilities of the other libraries on campus, including the John M. Olin Graduate and Research Library and the special libraries of other schools and departments, are also available to students.

Exhibitions. Art galleries are maintained in the Andrew Dickson White Museum and in Willard Straight Hall, where loan exhibitions of paintings and graphic work by contemporary artists are held. Current work of students in the College of Architecture, Art, and Planning is shown in the exhibition areas in Sibley Hall and the gallery in Franklin Hall.

Housing. *Undergraduate Men.* Cornell University provides on the campus residence halls for about 2,000 men. Complete cafeteria and dining service is provided in Willard Straight Hall, the student union building, which is situated between the residence halls; in Noyes Center, a new commons-type residentially based student union; and in some of the academic buildings. Men students are not required to live in University residence halls and are individually responsible for making their own living

and dining arrangements. An application form will be mailed to each male candidate for admission as a freshman or a transfer student at the time of notification of provisional acceptance. Housing in University residence halls can be guaranteed for entering freshmen who have been admitted to the University and have filed dormitory applications by June 1.

Undergraduate Women. Most undergraduate women whose regular residence is outside the Ithaca area are required to live and take their meals in University residence halls, or in sororities (for members only). Information about exceptions to that rule may be obtained from the Office of the Dean of Students, Day Hall. An application form for living accommodations for undergraduate women will be sent with the notice of provisional acceptance from the Office of Admissions.

Graduate Students. Sage Graduate Center provides dormitory housing for about 200 men and women. The building is in the center of the campus and provides a convenient cafeteria. Cascadilla Hall houses 160 men. Graduate students should make application for dormitory housing directly to the Department of Housing and Dining Services, Cornell University, Day Hall, Ithaca, New York 14850.

Married Students. The University operates the Pleasant Grove Apartments and the Hasbrouck Apartments, garden-type housing developments at the edge of the campus, and the Cornell Quarters, a housing development southeast of the campus.

Off-campus Housing for undergraduate men, graduate students, or married students may be obtained in privately owned properties in Ithaca and the vicinity. The University, as a service to students, maintains a listing of approved properties. Inquiries should be addressed to the Off-Campus Housing Office, Cornell University, Day Hall, Ithaca, New York 14850.

Health Services and Medical Care. The health services and medical care for students are centered in two Cornell facilities: the Gannett Medical Clinic (out-patient department) and the Sage Hospital. Students are entitled to unlimited visits at the Clinic (appointments with individual doctors at the Clinic may be made, if desired, by calling or coming in person; an acutely ill student will be seen promptly whether he has an appointment or not). Students are also entitled to laboratory and x ray examinations indicated for diagnosis and treatment, hospitalization in the Sage Hospital with medical care for a maximum of fourteen days

each term, and emergency surgical care. The cost of these services is covered in the General Fee.

On a voluntary basis, insurance is available to supplement the services provided by the General Fee. For further details, including charges for special services, see the *Announcement of General Information*. If, in the opinion of the University authorities, the student's health makes it unwise for him to remain in the University, he may be required to withdraw.

Faculty Advisers. Each student will be assigned a faculty adviser who, with those in charge of preregistration, will assist the student in working out his academic schedule, term by term, while he is in the College. The faculty advisers stand ready at all times to help and guide the student, not only in academic matters, but also, when possible, in personal problems and difficulties he may encounter. In addition, the Office of the Dean of Students has trained staffs of counselors who may be consulted by University students on nonacademic matters.

Assistance to Foreign Students. The staff of the University's International Student Office is prepared to advise and assist students from other countries in every way possible. It is suggested that foreign students interested in the possibility of study at Cornell University write to the Director of the International Student Office, Cornell University, Day Hall, Ithaca, New York 14850, for advice on registration, living conditions, and other matters.

University Privileges. The student of the College of Architecture, Art, and Planning is entitled to the use of all the University's general facilities and privileges. He may elect courses of study in any of the University's colleges. Cornell has all the usual extracurricular activities ordinarily to be found at a university, and they are open to all students. They include musical and dramatic clubs, undergraduate publications, religious, social, and professional organizations, and a great variety of athletic sports both intramural and intercollegiate.

UNIVERSITY ADMINISTRATION

James A. Perkins, President of the University.
Dale R. Corson, University Provost.
Mark Barlow, Jr., Vice President for Student Affairs.
John E. Burton, Vice President — Business.
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A. Henry Detweiler, B.Arch., Associate Dean of the College.
Joyce C. Davenport, Administrative Aide.
Howard E. Bullock, Administrative Aide.

FACULTY

Architecture

Fello Atkinson, Visiting Critic in Architecture.
Stuart M. Barnette, B.S. in Arch., Professor of Architecture.
Hubert E. Baxter, B.Arch., Professor of Architecture, Emeritus.
Ludlow D. Brown, M.Arch., Professor of Architecture.
Theodore M. Brown, B.Arch., A.M., Ph.D., Associate Professor of Architecture.
Robert G. Calkins, A.B., M.A., Assistant Professor of Architecture and History of Art.
Thomas H. Canfield, B.S. in Arch., Professor of Architecture.
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Gilmore D. Clarke, B.S., L.H.D., Professor of Landscape Architecture, Emeritus.
A. Henry Detweiler, B.Arch., Professor of Architecture.
Raymond DiPasquale, B.S.C.E., B.Arch., M.S. Arch. Engr., Associate Professor of Architecture.
Martin Dominguez, Arch. (Madrid, Spain), Professor of Architecture.
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Burnham Kelly, A.B., LL.B., M.C.P., Professor of Planning.
Alexander Kira, B.Arch., M.R.P., Associate Professor of Architecture.
Frederick Koetter, B.Arch., M.Arch., Assistant Professor of Architecture.
Herb Lubalin, Visiting Critic in Art.
Eugene David Montillon, B.Arch., Professor of Landscape Architecture, Emeritus.
Rolf Ohlhausen, Visiting Critic in Architecture.
Franz R. G. Oswald, Dipl. Arch. ETH, M.Arch., Assistant Professor of Architecture.
Charles W. Pearman, B.Arch., Assistant Professor of Architecture.
Eric Quell, Visiting Critic in Architecture.
Richard Roth, Jr., Visiting Critic in Architecture.
Colin Rowe, B.Arch., M.A., Professor of Architecture.
Francis W. Saul, B.S., M.S. in C.E., Associate Professor of Architecture.
Werner Seligmann, B.Arch., Associate Professor/Design.
John P. Shaw, B.Arch., M.Arch., Associate Professor of Architecture.
Roger Sherwood, B.Arch., M.S. Arch., M. Arch., Assistant Professor of Architecture.
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Stuart Stein, B.Arch., M.C.P., Associate Professor of Urban Planning and Design.
Frederick Taylor, Visiting Critic in Architecture.
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Oswald Ungers, Visiting Critic in Architecture.
Frederick M. Wells, B.Arch., Andrew Dickson White Professor of Architecture and Chairman of Architecture.
J. Alan Wells, B.Arch., Assistant Professor of Architecture.
Elliot Willensky, B.Arch., Associate Professor of Architecture.

Art

John Button, Visiting Critic in Art.
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Allan D'Arcangelo, Visiting Critic in Art.
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Charles Hinman, Visiting Critic in Art.
Sam Hunter, Visiting Critic in Art.
H. Peter Kahn, B.S., M.A., Professor of Art.
James O. Mahoney, A.B., B.F.A., F.A.A.R., Professor and Chairman of Art.
Christian Midjo, Professor of Art, Emeritus.
Gillian Mary Pederson-Krag, B.F.A., M.F.A., Assistant Professor of Art.
Jason Seley, B.A., Professor and Chairman (July 1968) of Art.
Arnold Singer, Associate Professor of Art.
Jack L. Squier, B.S., M.F.A., Professor of Art.

City and Regional Planning

John Allderige, B.S., M.S., Lecturer in City and Regional Planning.
Pierre Clavel, A.B., M.R.P., Ph.D., Assistant Professor of City and Regional Planning; Research Associate in the Department of Rural Sociology.

Stanislaw Czamanski, Lic. es Sc. Comm., Ph.D., Associate Professor of City and Regional Planning.
Allan G. Feldt, B.S., A.M., Ph.D., Associate Professor of City and Regional Planning.
Jack C. Fisher, B.A., M.A., Ph.D., Assistant Professor of City and Regional Planning; Assistant Director of the Center for Housing and Environmental Studies.
Roy Gerard, B.A., M.A., Ph.D., Lecturer in City and Regional Planning.
Gideon Golany, B.A., M.A., M.S.C., Dp.C.P., Ph.D., Visiting Lecturer in City and Regional Planning.
William Goldsmith, B.S.C.E., Instructor in City and Regional Planning.
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Douglass B. Lee, B.Arch., M.R.P., Instructor in City and Regional Planning.
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Kermit C. Parsons, B.Arch., M.R.P., Professor and Chairman of City and Regional Planning.
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Courtney Riordan, B.S., Instructor in City and Regional Planning.
Thomas V. Seessel, B.A., M.P.A., Lecturer in City and Regional Planning.
Peter Self, M.A., Visiting Lecturer in City and Regional Planning; Visiting Professor in the Department of Business & Public Administration.
Stuart Stein, B.Arch., M.C.P., Associate Professor of Urban Planning and Design.
Oliver C. Winston, B.A., B.S. in Arch., Lecturer in City and Regional Planning.

Elected Members of the Faculty

Glenn H. Beyer, A.M., Professor of Housing and Design; Director of the Center for Housing and Environmental Studies.
Joseph Carreiro, B.S. in Ed., Professor and Head of Housing and Design.
Albert M. Hillhouse, J.D., Ph.D., Professor of Public Administration.
David H. R. Shearer, B.A., M.S.L.S., Librarian.
Martie W. Young, A.B., M.A., Ph.D., Associate Professor and Chairman of History of Art.

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Undergraduates	332	Graduates	112
Architecture	237	Architecture	31
Art	95	Art	16
Men	239	Planning	65
Women	93	Men	102
		Women	10

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Delaware	3	Pennsylvania	40
District of Columbia	2	Puerto Rico	3
Florida	4	Rhode Island	1
Hawaii	2	South Carolina	2
Illinois	15	Tennessee	2
Indiana	5	Texas	7
Maryland	15	Vermont	1
Massachusetts	18	Virginia	11
Michigan	4	Washington	3
Minnesota	1	Wisconsin	4
		Wyoming	1

Foreign 18

Canada	3	Greece	3
China	1	Hong Kong	2
Colombia	3	Italy	1
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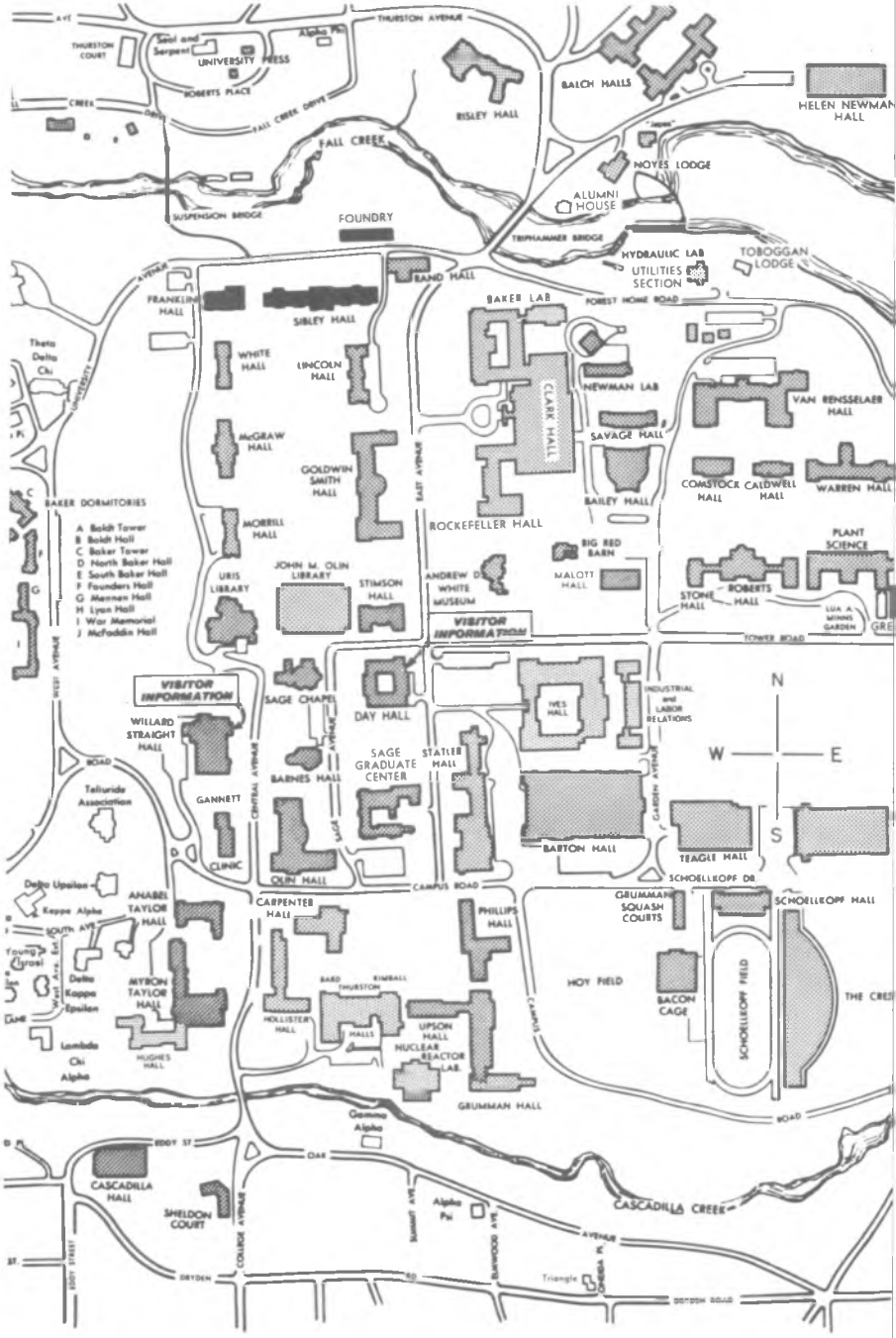
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