

COLLEGE OF ARCHITECTURE, ART, AND PLANNING

ADMINISTRATION

W. Stanley Taft, interim dean
 Werner Goehner, associate dean
 Peter Turner, assistant dean of administration and finance
 Mark Cruvellier, acting chair, Department of Architecture
 Patricia Phillips, chair, Department of Art
 William Goldsmith, chair, Department of City and Regional Planning
 Deborah Durnam, director, admissions
 Michael Moyer, director, alumni affairs and development
 M. Susan Lewis, director, career services
 Leon Lawrence, director, Office for Diversity and Inclusiveness
 Margaret N. Webster, director, visual resources facility
 Jayne A. LeGro, registrar

FACULTY ADVISORS

Architecture students are assigned faculty advisors and are also invited to share concerns with and seek advice from the most appropriate faculty member or college officer, including the registrar, the department chair, and the dean.

Students in the fine arts department are assigned a faculty advisor for the first year. After the first year, students may select their advisors. Students are required to have an advisor throughout their program in their area of concentration.

Undergraduate students in the program of Urban and Regional Studies are assigned faculty advisors.

All students in the college are invited to share concerns and seek advice from the volunteer student advisors (EARS) at any time.

DEGREE PROGRAMS

	<i>Degree</i>
Architecture	B. Arch.
	B.F.A.
Fine Arts	B.F.A.
History of Architecture and Urbanism	B.S.
Urban and Regional Studies	B.S.
The college offers programs leading to the bachelor's degree—the five-year program in architecture leads to the bachelor of architecture; four-year programs in art and architecture lead to the bachelor of fine arts. In addition, four-year programs with a concentration in either urban and regional studies or history of architecture lead to the bachelor of science.	

Graduate-level programs are offered in art, architectural design and urban design, architectural science, history of architecture and urbanism, historic preservation planning, city and regional planning, regional science, and landscape architecture.

Students in most of these programs work in physical proximity to one another and thus gain a broader understanding of their own special area of interest through contact with students and faculty from other disciplines.

Early in its development, the college set a limit on the number of students it would enroll and devised a selective method of admission. There are now more than 670 students and a full-time teaching staff of over 60, supplemented by visiting professors and critics, part-time lecturers, and assistants. Teachers and students mix freely, and much instruction and criticism is on an individual basis.

The college's courses are integral parts of the professional curricula. Fundamental subjects are taught by faculty members whose experience provides them with professional points of view. The concentration of professional courses within the college is balanced by the breadth of view gained from courses and informal learning in the rest of the university. The college believes that this breadth is an essential element of professional education. This conviction is evident in the form of the curricula, the methods of teaching, and the extracurricular life of teachers and students.

FACILITIES

The college occupies Sibley Hall, Olive Tjaden Hall, Rand Hall, and the Foundry. Facilities for architecture and city and regional planning, as well as college administrative offices, the Visual Resources Facility, and the Fine Arts Library, are located in Sibley Hall. The Department of Art is housed in Olive Tjaden Hall. Sculpture facilities are in the Foundry and architecture design studios and shop facilities are in Rand and Sibley. The Green Dragon Café, a student eatery and lounge, is located in the lower level of Sibley Dome. Darkrooms in the Department of Art are available for general use by students in the college and are used primarily as laboratories for the photography courses. Each user must pay a darkroom fee. Information about darkroom rules and regulations, hours, and equipment is available at the darkroom circulation desk.

Through the generosity of the late Lillian P. Heller, the college also owns the Miller-Heller House, 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 Hall serves the College of Architecture, Art, and Planning through its collections on architecture, fine arts, city and regional planning, and landscape architecture. The library, with more than 207,000 books, is capable of supporting undergraduate, graduate, and research programs. Some 1,400 serials are currently received and maintained.

The Visual Resources Facility, made possible through gifts from George and Adelaide Knight, is located in Sibley Hall and contains the F. M. Wells Memorial Slide Collection, which consists of a large and growing collection of slides of architecture, architectural history, and art. The collection now includes approximately 500,000 slides as well as a rapidly developing digital image collection.

The facilities of the libraries of other schools and departments on campus and the John M. Olin Library, designed primarily as a research library for graduate students, are also available.

Museums and Galleries

The Herbert F. Johnson Museum of Art was formally opened in May 1973. Although many of its exhibitions and activities relate directly to academic programs of the university, the museum has no administrative affiliation with any department. In this way, its programs freely cross academic boundaries, stimulating interchange among disciplines. With a strong and varied collection and a continuous series of high-quality exhibitions, it fulfills its mission as a center for the visual arts at Cornell. Throughout the year, works of students, faculty, and staff in the College of Architecture, Art, and Planning and of guest artists may be viewed in the John Hartell Gallery in Sibley Dome and in the Olive Tjaden Gallery in Olive Tjaden Hall. Art galleries are also maintained in Willard Straight Hall, where loan exhibitions of paintings and graphic work by contemporary artists are held.

Cornell in Rome

Cornell in Rome is a semester-long study-abroad program of Cornell University's College of Architecture, Art, and Planning. The college has been hosting students in Italy for 20 years. From its beginnings, the program has provided a transformative experience for young, developing artists, architects, urbanists, and scholars. The program is open to Cornell juniors and seniors, as well as students from other colleges and universities.

Drawing upon the historical and cultural resources of Rome, its museums, art, and architecture, and the city's beauty and complexity as an ancient and yet modern European city, a semester in Rome has proven to be one of the most important experiences of the undergraduate years, for both intellectual and personal growth.

Courses are offered in architecture, art, and urban studies, architecture history, art history, drawing, photography, architecture theory, contemporary Italian culture, European politics, and Italian language. Weekly classes use the city and its wealth of museums and galleries, archaeological sites, villas, churches, and remarkable public spaces for on-site study, as well as Rome's many neighborhoods, for field-based learning activities.

Cornell in Rome's resident faculty, chosen from local and internationally known scholars, critics, architects, and artists, are all expert at using the city as an unparalleled resource for instruction and inspiration. They are joined by Cornell professors from each of the three departments in Ithaca, who teach in Rome for the entire term. An extensive field trip program to many different regions of Italy beyond Rome complements course offerings.

The program is based at Palazzo Lazzaroni, a seventeenth century building in the historic center of Rome and students live nearby in completely furnished apartments provided by the program, enjoying daily contact with the urban life of a major, European city.

Application is made in the academic year before participation. The deadline is November 1 for AAP students and December 15 for all out-of-college applicants. Detailed course and program information may be found at www.rome.cornell.edu. Students are also welcome to stop by the Cornell in Rome office at 149 East Sibley Hall.

AAP in New York City

The College of Architecture, Art, and Planning's newly opened studio and classroom facility in New York City offers undergraduate and graduate students a unique opportunity to live and study in one of the most culturally vital urban centers in the world, and to be exposed to professional expertise at design firms and nonprofit agencies throughout the city. Located near Union Square in the vibrant Chelsea neighborhood of Manhattan, the AAP center is home base for a semester-long immersive, urban experience. The AAP NYC curriculum reflects Manhattan's extraordinary artistic, historical, and cultural resources and connects students with AAP's extensive network of professionals who frequently teach courses and serve as guest critics.

In addition to innovative course work, architecture students may also elect to do a 16-hour-per-week internship at a Manhattan firm. Students in the Urban and Regional Studies (URS) program spend three and a half days a week working with senior executives from public, private, and non-profit organizations. The first group of BFA students will be in residence in New York in spring 2009, combining studio work with art history and theory courses that utilize the unparalleled art resources of New York City.

Eligibility

The program is available to fourth- and fifth-year Cornell undergraduates in the Department of Architecture, and is required for fifth semester M. Arch. I students, and third semester M. Arch. II students. Students in the program of URS must have completed two years of their required curriculum.

Students in the Department of Art are eligible to attend the program in the second semester of their sophomore year. Undergraduate students from outside Cornell are encouraged to apply.

Application is made in the academic year prior to participation. The deadline is November 1 for AAP students and December 15 for all out-of-college applicants.

COLLEGE ACADEMIC POLICIES

Ownership of Student Work

All drawings, models, paintings, graphic art, and sculpture done in the studios and drafting rooms as a part of the instructional program are the property of the college until they have been graded and released by the instructor. Certain works may be selected by the college for retention for academic purposes.

Exhibitions of Student Work

Exhibitions of student work are held each semester as part of the yearly schedule of the Olive Tjaden Gallery and the John Hartell Gallery in Sibley Dome. These galleries display work from a specific course or exhibit examples of recent work by individual faculty members, students, and visitors.

Minors

Students may pursue minors in any department in any college that offers them, subject to limitations placed by the department offering the minor or by the students' major. Completed minors will appear on the student's transcript. Not all departments offer minors. Consult the appropriate section in this catalog or contact the appropriate department for information on minors offered and how to pursue a minor.

Scholastic Standards

Semester by semester, a candidate for an undergraduate degree in this college is required to successfully complete a minimum of 12 credit hours with a grade point average for the semester of not less than C+ (2.3). The record of each student who falls below the standard will be reviewed by the college's Academic Records Committee for appropriate action, among those described below:

1. The student is issued a **Warning**. This means the student's performance is not up to expectations. Unless improvement is shown in the subsequent semester, the student may be placed on **Final Warning** or given a **Required Leave of Absence** from the college.
2. The student is issued a **Final Warning**. This indicates the student's record is unsatisfactory. Unless considerable improvement is shown in the subsequent semester, the student may be given a **Required Leave of Absence** from the college.
3. The student is placed on a **Required Leave of Absence**. The student is dismissed from the college and may not continue studies in the college. A student who has been placed on a required leave of absence may request to resume studies after a leave of absence of at least two semesters.

This request is made by letter addressed to the college dean, chair of the Academic Records Committee, 129 Sibley Hall, Ithaca, NY 14853-6702. The student must submit evidence that time has been well used, and if employed, the student must submit a letter from the employer(s). Students on required leave are not allowed to register extramurally at Cornell, as the intention of the required leave is to insist upon a break from study at Cornell. If a student chooses to enroll in courses at another institution while on a required leave, credit is not granted automatically. Upon receiving permission to return, a student must petition the department and include an official transcript to request credit for courses taken. A return to study in the college after a required leave of absence is at the discretion of the college's Academic Records Committee. Requests for spring semester return must be made by November 15 and requests for fall semester return must be made by April 15. The second required leave of absence is a de facto dismissal and the student will be permanently withdrawn from the college.

4. The student is placed on a **Required Withdrawal**. The student may not reregister in the College of Architecture, Art, and Planning and is dismissed from the college and is permanently prohibited from continuing studies in it.

The required withdrawal action does not prevent the student from applying for admission to another division of the university.

The above actions are not necessarily sequential. A student who has received a warning may be placed on a required leave of absence at the end of the next semester if the performance during that semester is deemed to be grossly deficient.

It is necessary to have a cumulative grade point average of at least 2.0 (C) for graduation.

Leaves of Absence

The College of Architecture, Art, and Planning adopted the following leave of absence policy effective in the fall of 2006:

Leaves of absence will be of four types:

1. **Personal leaves of absence** may be granted for a variety of reasons. The student may request a personal leave of absence no later than the third week of class in the affected term. The department may set conditions for completion of work, new and incomplete course work, community service, or internships while the student is on leave. The term of this type of leave is five years. Following the end of the fifth year, the student will be automatically withdrawn from the college.
2. **Conditional leaves of absence** may be granted for students desiring to take a leave but who are not in good academic standing or they wish to take a leave during the current term. Conditional leaves are at least two semesters in length. The department will set conditions for completion of work, new and incomplete course work, community service, or internships while the student is on leave. Students may be granted conditional

leaves of absence after the twelfth week of the term only in highly extenuating circumstances and with the approval of the student's department and the Academic Records Committee (ARC). The student's academic status is subject to review at the time of the leave and upon the student's return.

3. Voluntary leaves of absence for medical reasons may be granted by the college upon the recommendation of Counseling and Psychological Services (CAPS) or Gannett Health Services. They are usually no less than six months in duration. The department may set conditions for completion of work, new and incomplete course work, community service, or internships while the student is on leave. The college may impose additional conditions appropriate to the individual situation. The student's academic status is subject to review at the time of the leave and upon the student's return. Students must receive approval to return from this type of leave, both from CAPS or Gannett as well as the student's department and the ARC.

4. Required leaves of absence for academic reasons. The ARC may vote for a required leave if the student is not making satisfactory progress in the degree program (defined by completion of 12 academic credits and 2.3 GPA each term unless there are special circumstances). The department may set conditions for completion of work, new and incomplete course work, community service or internships while the student is on leave. The college may impose additional conditions appropriate to the individual situation. The student's academic status is subject to review at the time of the leave and upon the student's return.

Students on leave types 2 and 4 may not attend any classes at Cornell through the School of Continuing Education and Summer Sessions. Students on leave type 3 may not register for classes at Cornell unless they obtain the permission of the department, the college ARC, and a recommendation from CAPS or Gannett Health Services.

Students who desire to return from any of these leaves shall follow a two-tiered approach. They shall write a letter to their department and to the ARC asking to return to study in the following academic semester (summers may be considered for potential return). The request will be reviewed and approved first by the department. The recommendation of the department will be forwarded to the college ARC for its review and action. If the student request to the department results in a "no pass" outcome, the student may appeal in writing to the Academic Records Committee within two weeks of receipt of the department decision. The final decision then rests with the Academic Records Committee. No appeals will be considered following the decision of the ARC.

It is expected that the department and college committees will review and act on requests to return to study by June 1 for requests to return to study in the fall term and by January 5 for requests to study in the spring term.

ARCHITECTURE COURSES

Course offerings in the college of Architecture, Art and Planning are listed under the various departments. Courses are identified with a standard abbreviation followed by a three-digit number.

For the entering class of 2008, all new students in the college of AAP will be required to complete a 1-credit, interdisciplinary course offered in the fall semester.

AAP 1101 The World We Make

Fall and spring, 1 credit. S-U grades. Staff. This course offers AAP first-year students an introduction to the subjects, theories, and methodologies of the disciplines of art, planning, architecture, and landscape architecture. Examples drawn from a range of historical periods as well as contemporary practice highlight distinct processes of thinking and working in each discipline, as well as areas of intersection and overlap.

ARCHITECTURE

M. Cruvellier, acting chair (137 East Sibley Hall, 255-5236); L. Chi, M. Curry, W. Goehner, D. P. Greenberg, G. Hascup, K. Hubbell, D. M. Lasansky, B. G. MacDougall, A. B. Mackenzie, L. Mirin, V. Mulcahy, J. Ochshorn, C. F. Otto, A. Ovaska, K. Pratt, H. W. Richardson, M. Silver, A. Simitch, V. K. Warke, J. Wells, M. Woods, J. Zissovici

Professional Degree Programs

Cornell offers two professional degrees in architecture: the undergraduate bachelor of architecture and the graduate master of architecture. These degrees count toward the professional registration requirements established by the various states, the National Architectural Accrediting Board, and the National Council of Architectural Registration Boards.

B. Arch.

The undergraduate professional program is normally five years in length and is designed particularly for people who, before they apply, have established their interest and motivation to enter the field. It therefore incorporates both a general and professional educational base.

The program is oriented toward developing the student's ability to deal creatively with architectural problems on analytical, conceptual, and developmental levels. The sequence courses in design, consisting of studio work augmented by lectures and seminars, are the core of the program. Sequences of studies in the history of architecture and cities, culture and society, architectural theory, visual studies, environmental control, structures, construction, and computer applications provide a base for the work in design.

In the first three years, the student has the opportunity to establish a foundation in the humanities and sciences through electives. During the fourth and fifth years, this base may expand through further detailed studies in these areas. Within the professional program a basis for understanding architecture in its contemporary and historical cultural contexts is established.

The structure of the program incorporates considerable flexibility for the individual student to pursue his or her particular interest in the fourth and fifth years. By carefully planning options and electives in the fifth year, it is possible for a qualified student to apply the last year's work for the bachelor of architecture degree to the post-professional M. Arch. II program. Some students are then able to complete the requirements for the master's degree in one additional year.

M. Arch. I

Cornell's graduate professional program is normally three and one-half years long and is intended for students who already have a bachelor's degree in any subject. Information on this professional graduate program may be found on the architecture web site (www.architecture.cornell.edu).

Note on Professional Accreditation

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a six-year, three-year, or two-year term of accreditation, depending on the extent of its conformance with established educational standards.

Master's degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The NAAB grants candidacy status to new programs that have developed viable plans for achieving initial accreditation. Candidacy status indicates that a program should be accredited within six years of achieving candidacy, if its plan is properly implemented.

Cornell in Rome

The program offers the opportunity for students from Cornell and other universities to spend one or two semesters of study in Rome. This option is open to fourth- and fifth-year Cornell architecture students; outstanding third-year students are admitted by petition and a review of their design record. Courses offered by this department include design, history, theory, architectural science, and visual studies. In addition, courses are offered by other departments in Italian language, Italian culture, art, city and regional planning and history of art. The program provides a unique urban and architectural experience drawing from the rich past of the city for sources of instruction and inspiration.

AAP in New York City

The goals of the Architecture Program in New York City are to introduce the students to the best of contemporary practice while enabling students to benefit from trans-disciplinary activities achieved by collaboration with the students of other departments and exposure to a multiplicity of practices including art and engineering.

Students have the opportunity to establish connections with significant practices outside of the studio through internships.

B.Arch. Curriculum

First Year

Fall Semester	Credits
1101 Design I	6
1801 History of Architecture I	3
1501 Drawing I: Freehand Drawing	2
MATH 1110 Calculus or out-of-college elective	3–4
Out-of-college elective	3
AAP 1101 The World We Make	1
<i>Spring Semester</i>	
1102 Design II	6
1802 History of Architecture II	3
1502 Drawing II: Drawing Systems	2
MATH 1106 or 1110 or out-of-college elective	3–4
Out-of-college elective (first-year writing seminar suggested)	3
	17–18

Second Year

Fall Semester	Credits
2101 Design III	6
2603 Structural Concepts	4
2301 Architectural Analysis I	2
2602 Building Technology, Materials, and Methods	3
ARCH 2503 Drawing III: Digital Media in Architecture or out-of-college elective	2–3
<i>Spring Semester</i>	
2102 Design IV	6
2302 Architectural Analysis II	2
2601 Environmental Systems—Site Planning	3
2604 Structural Elements	3
ARCH 2503 Drawing III: Digital Media in Architecture or college elective	2–3
	16–17

Third Year

Fall Semester	Credits
3101 Design V	6
3402 Architecture as a Cultural System	3
3601 Environmental Systems II—Thermal Environmental Systems	3
Departmental elective	3
Out-of-college elective	3
<i>Spring Semester</i>	
3102 Design VI	6
3603 Structural Systems	3
3602 Environmental Systems III—Building Systems Integration	3
Departmental elective	3
College or out-of-college elective	3
	18

Fourth Year

Fall Semester	Credits
4101 Design VII	6
Departmental elective	3
Departmental elective	3
College elective	3
Out-of-college elective	3
	18
<i>Spring Semester</i>	
4102 Design VIII	6
5201 Professional Practice	3
Departmental elective	3
College or out-of-college elective	3
Out-of-college elective	3
	18

Electives

Departmental Semesters	Credits
3 history of architecture: 3000 level	9
1 visual representation in architecture	3
2 architectural theory or 6000-level design-related course	6
1 architectural structures, construction, or environmental systems and conservation	3
	21

College Semesters

2 art: any studio courses (ART 2104 will fulfill)	6
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Out-of-College Semesters

1 first-year writing seminar	3
1 mathematics, or physical or biological sciences	3
1 humanities	3
	12

Free

Of the electives, 15 credits are to be taken outside the College of Architecture, Art, and Planning, and 15 credits may be taken either in or outside the college. One of these must be AAP 1101.

30
176

Total credits

Architecture Concentrations for Majors

The Department of Architecture recognizes any concentration earned within the university but outside of the department (using standards set by those departments) on the transcripts of its students.

It is often advantageous for undergraduates to concentrate in specific subdisciplines of architecture, especially if they anticipate application to specialized graduate programs; therefore, the following concentrations in architecture are offered within the department for B. Arch. and B.F.A. in architecture candidates only:

Architecture, Culture, and Society 3402 (or equivalent), plus 9 credits in this area.

Architectural Science and Technology 2601, 2602, 2603, 2604, 3601, 3602, 3603, distribution requirement (3 credits), plus 6 credits in this area.

Required Departmental Courses

Semesters	Subject	Course	Numbers	Credits
	10	design	1101–5901	62
	1	mathematics	MATH 1110, MATH 1106, or approved equivalent	3–4
	3	structures	2603, 2604, 3603	10
	4	technology	2601, 2602, 3601, 3602	12
	2	architectural theory	2301, 2302	4
	2	history of architecture	1801, 1802	6
	1	architecture, culture, and society	3402	3
	1	professional practice	5201	3
	3	drawing	1501, 1502, 2503	6
				107–108

18

History of Architecture 1801, 1802, distribution requirements (9 credits), plus 7 credits (including a 4-credit seminar course) in this area.

Theory of Architecture 2301, 2302, distribution requirements (6 credits), plus 6 credits in this area.

Visual Representation in Architecture 1501, 1502, distribution requirement (3 credits), plus 9 credits in this area.

Students wishing to receive recognition for a concentration must submit a concentration request form to the Architecture Department office. For a course to count toward a concentration, the student must receive a grade of C or better.

Transfer Students

Although the program leading to the bachelor of architecture is directed specifically to those who are strongly motivated to begin professional study when entering college, it is sufficiently flexible to allow transfers for students who have not made this decision until after they have been in another program for one or two years. Individuals who have already completed a nonprofessional undergraduate degree may apply to the professional M. Arch. I program.

Transfer students are responsible for completing that portion of the curriculum which has not been covered by equivalent work. Applicants who have had no previous work in architectural design must complete the 10-semester design sequence. Since this sequence may be accelerated by attending summer semesters, seven or eight regular semesters and two or three summer terms are typically required.

Admission is offered to a limited number of transfer applicants who have completed a portion of their architecture studies in other schools. Each applicant's case is considered individually. Transfer students must complete a minimum of 70 credits and four semesters in residence, taking 35 of the 70 credits (including four semesters of design) in the Department of Architecture. Placement in the design sequence is based on a review of a representative portfolio of previous work.

For those who would benefit from an opportunity to explore the field of architecture before deciding on a commitment to professional education, the department offers an introductory summer program that includes an introductory studio in architectural design, lectures, and other experiences designed to acquaint participants with opportunities, issues, and methods in the field of architecture.

Alternative Programs

Bachelor of Fine Arts

After completing the first four years of requirements, the student may choose to receive the degree of bachelor of fine arts (B.F.A.) in architecture, which is not a professional degree.

Bachelor of Science in History of Architecture

The history of architecture major leads to a bachelor of science degree, conferred by the College of Architecture, Art, and Planning. The major is intended for transfer students from other programs at Cornell and from

colleges and universities outside Cornell. Students in the Department of Architecture and the College of Arts and Sciences may take the major as part of a dual-degree program. The course of study in this major, available to students from a variety of academic backgrounds, offers the opportunity for a vigorous exploration of architecture and its history.

Admission requirements. Two years of undergraduate study, ARCH 1801 and 1802 or the equivalent. Students transferring from a B. Arch. program must be in good standing in their design sequence.

Procedure. Students from Cornell may transfer to the program at the beginning of the fall semester of their third or fourth year of study. They submit a short application as prospective internal transfer students. Before applying, all prospective internal transfer students meet with a history of architecture faculty member to discuss scheduling for the program.

All students who wish to enter the program, either from Cornell or other institutions, must apply by November 15 for spring admission or by March 31 for fall admission.

Applications for both internal and external transfer students are available from the Admissions Office, College of Architecture, Art, and Planning, Cornell University, B-1 West Sibley Hall, Ithaca, NY 14853-6702. Completed applications must be submitted to the Admissions Office.

Curriculum. A student entering the program is assigned an advisor from the history of architecture faculty in the Department of Architecture. Advisor and student together prepare an appropriate two-year course of study according to the following guidelines:

1. 24 credits of 3000-level courses in architectural history: ARCH 3800 through 3819
2. 12 credits in 6000-level architectural history seminars: ARCH 6800 through 6819; or 8 credits in a 6000-level seminar plus ARCH 4901, offered for honors candidates only
3. One 3000-, 4000-, or 6000-level course in architectural theory
4. 24 credits in electives selected in consultation with the student's advisor
5. Language requirement, to be met in the manner specified for students enrolled in the College of Arts and Sciences

Honors program. Students graduate with honors if, during their two years of study in the program, they have a cumulative average of B or better in all courses, have no grade lower than A- in all history of architecture courses taken at the 3000 level, and have completed an honors thesis (ARCH 4901) deemed to be of distinguished quality by the history of architecture faculty.

Dual-Degree Options

Students can earn both the B.S. and B. Arch. degrees either simultaneously or sequentially. Students who have transferred into the B. Arch. program at Cornell may find this to be a special opportunity for an enlarged and enriched program of study.

Students currently enrolled in the College of Arts and Sciences at Cornell can earn a B.A. in an arts college major and a B.S. in the history of architecture in five years. In this

option, students complete a minimum of 150 credits, which includes the B.S. prerequisites and curriculum requirements and 100 credits of the usual distribution and major requirements in the College of Arts and Sciences. Further information about this option is available at the Admissions Office, B-1 West Sibley Hall, and at the Academic Advising Center of the College of Arts and Sciences, 172 Goldwin Smith Hall.

Students may also elect to continue toward a master of arts degree in the history of architecture. The M.A. ordinarily requires a minimum of two years of graduate work beyond the bachelor's degree; with this special sequential degree arrangement that time is shortened to one year.

Summer Term in Architecture

The summer term offers students the opportunity of a concentrated period of design work; the term is six to eight weeks in duration.

Undergraduate design sequence courses, excluding 1101 and 5901, are offered in Ithaca. Normally there is also a design program abroad for third-, fourth-, and fifth-year students.

Students from schools of architecture other than Cornell are welcome to enroll in any summer program.

Other department courses may be offered as elective courses, contingent upon student interest, faculty availability, and departmental approval.

The department offers a Career Explorations in Architecture Program for high school students and college students considering a professional education in architecture.

Concentration in Architecture for Nonmajors

A special concentration has been formulated specifically for those students not enrolled in the Department of Architecture but who are interested in complementing their current academic program with an introduction to various facets of architectural studies. Some students may wish to use the Concentration in Architecture for Nonmajors as a means of investigating possible graduate studies in architecture. Some may wish to develop architectural specialties within other disciplines. Students meeting the requirements for this concentration should complete a concentration form, which is available in the architecture department office. This form, when validated by the architecture department and the AAP college registrar, serves as evidence of completion of the concentration requirements. Students should consult their individual college registrars for information about whether their home college recognizes and notes such concentrations on transcripts or diplomas.

The curriculum for students in the Concentration in Architecture Program totals 14 credit hours minimum, including 8 credits of required courses and 6 credits of elective courses. Grades earned must be C or better in all courses.

Required courses. A minimum of 8 credits, including one design studio, one visual studies course (e.g., drawing), and one history of architecture course. For example,

ARCH 1110 Introduction to Architecture Design Studio (offered summer only) 3 credits
or

ARCH 1103 Elective Design Studio (offered fall only, not offered every year) 6 credits

(ARCH 1103 may substitute for ARCH 1110; students who complete ARCH 1103 must take all other course requirements for the concentration.)

ARCH 1501 Drawing I (fall only) 2 credits

ARCH 1801 or 1802 History of Architecture I or II (ARCH 1801, fall; ARCH 1802, spring) 3 credits

Departmental elective courses: A minimum of 6 credits, including two departmental elective courses, are required.

Professional Master of Architecture

Mission Statement

Consistent with the broader mission of the Department of Architecture, the Master of Architecture program is dedicated to preparing graduate students from diverse disciplines and backgrounds for careers in architecture. The program is committed to the view that the nature of contemporary practice must be continually investigated and reassessed in today's globally expansive and technologically dynamic context. The program places the question of practice at the center of the learning process. It posits alternative models and methods of research and seeks to empower the student's sense of inquiry, responsibility, and creativity as she or he formulates her or his unique professional trajectory. The program aims in particular to engage the unique strengths and needs of the graduate student: her or his maturity, commitment to architecture, and the wealth and variety of academic and life experiences she or he brings to the discipline. The pedagogy sets skills and knowledge essential to the profession in a context of emergent cultural, technical, and environmental concerns that characterize the expanded field of architecture in the 21st century.

Curriculum

Term One Units/Credit Hours

ARCH 5111 Core Design Studio I	6
ARCH 5511 Techniques in Vis Rep I: Freehand & Analytical Drawing	3
ARCH 5301 Theories and Analyses of Architecture I	3
ARCH 5603 Structural Concepts	4
ARCH 5801 History of Architecture I	3
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Term Two

ARCH 5112 Core Design Studio II	6
ARCH 5512 Techniques in Vis Rep II: Analog/Digital Constructed Drawing	3
ARCH 5302 Theories and Analyses of Architecture II	3
ARCH 5604 Structural Elements	3
ARCH 5802 History of Architecture II	3
	18

Term Three

ARCH 5113 Core Design Studio III	6
ARCH 6601 Environmental Systems II: Thermal Environmental Systems	3
ARCH 5602 Building Technology, Materials, and Methods	3
History Elective or Theory Elective*	3
Visual Representation Elective	3
	18

Term Four

ARCH 5114 Core Design Studio IV	6
ARCH 6602 Environmental Systems III: Building Systems Integration	3
ARCH 6603 Structural Systems	3
ARCH 5402 Architecture, Culture, Society	3
Open Elective	3
	18

Term Five

ARCH 5115 Core Design Studio V: Integrative Design Practices	6
ARCH 5201 Professional Practice	3
ARCH 8911 Proseminar in Design Research	3
History or Theory or Visual Representation Elective*	3
	15

Term Six

ARCH 5116 Vertical Design Studio	6
Visual Representation Elective	3
Open Elective	3
History or Theory or Visual Representation Elective*	3
	15

Term Seven

ARCH 8912 Independent Design Thesis	9
OpenElective	3
	12
Total Units/Credit Hours	115

* Total required for graduation:

- 1 Theory elective
- 1 History elective
- 1 Theory or History elective
- 2 Visual Representation electives

Architectural Design

Courses in brackets are not offered this year.

Each student in the architecture program (undergraduates, graduates, New York City Program, and Rome Program participants) is charged a fee each semester to help defray the continuing costs of refurbishing and replacing equipment.

Sequence Courses

ARCH 1101 Design I

Fall, spring. 6 credits. Prerequisite: department students. Staff.

Introduction to design as a conceptual discipline directed at the analysis, interpretation, synthesis, and transformation of the physical environment. Exercises are aimed at developing an understanding of

the issues, elements, and processes of environmental design.

ARCH 1102 Design II

Spring. 6 credits. Prerequisite: department students; ARCH 1101 and 1501. Staff. Continuation of ARCH 1101. Covers human, social, technical, and aesthetic factors related to space and form. Design problems range from those of the immediate environment of the individual to that of small social groups.

ARCH 2101-2102 Design III and IV

Fall and spring. 6 credits each semester. Prerequisites: department students; ARCH 1501-1502; for ARCH 2101, ARCH 1102 and 1502; for 2102, ARCH 2101. Corequisite: ARCH 2301-2302. Staff.

ARCH 3101-3102 Design V and VI

Fall and spring. 6 credits each semester. Prerequisites: department students; for ARCH 3101, ARCH 2102; for 3102, ARCH 3101. Staff.

ARCH 4101-4102 Design VII and VIII

Fall and spring. 6 credits each semester. Prerequisite: department students; for ARCH 4101, ARCH 3102 and 3602; for 4102, ARCH 4101. Staff.

Programs in architectural design, urban design, or architectural technology and environmental science and topical studies.

ARCH 5101 Design IX

Fall or spring. 6 credits. Prerequisite: department students; ARCH 4102. Staff. Programs in architectural design, building typology investigations, and research leading to complete development of the student's thesis program. General instruction in the definition, programming, and development of a thesis.

ARCH 5901 Design X—Thesis

Fall or spring. 8 credits. Requirement for B. Arch. candidates who must satisfactorily complete a thesis. Prerequisite: ARCH 5101. Staff.

Graduate Courses

ARCH 5111 Core Design Studio I

Fall. 6 credits.

Introduction to fundamental concepts of architectural design and representation, including preliminary notions of site, program, and context. Emphasis on interpretive, analytical, and generative uses of drawing, physical modeling, and digital media in the design process.

ARCH 5112 Core Design Studio II

Spring. 6 credits. Prerequisite: ARCH 5111. Continuation of subjects developed in the first term. Focus on issues of program and architectonics in the design of a building type in context; introduction to site planning.

ARCH 5113 Core Design Studio III

Fall. 6 credits. Prerequisite: ARCH 5112. Focus on issues of program and architectonics in the design of a complex building type. Emphasis on interpretive, analytical, and generative uses of digital media.

ARCH 5114 Core Design Studio IV

Spring. 6 credits. Prerequisite: ARCH 5113. Focus on architecture's expanded sites: social, cultural, material, and/or environmental considerations of building in a complex urban landscape.

ARCH 5115 Core Design Studio V: Integrative Design Practices

Fall. 6 credits. (New York City).

Prerequisites: ARCH 5114, 5602, 5604, 6601, 6602, 6603.

Focus on the development of architectural ideas in constructed, material form. The studio explores emergent topics and constructive methods in contemporary architectural practice. Design study includes the creation of a comprehensive set of representations that describes an architectural project in detail. Students work in collaborative groups and in consultation with advisors drawn from professional practice to develop a project that engages a complex range of topical areas, including: structural and environmental systems, building envelope systems, materiality and construction, life-safety planning, and sustainability.

ARCH 5116 Vertical Design Studio

Spring. 6 credits. Prerequisite: ARCH 5115. Open to professional and post-professional M. Arch. students. The vertical studios are topical in nature, and engage contemporary issues in architectural practice and research.

ARCH 7111 Design A

Fall. 6 credits. Staff.

Exploration of themes, methods, and technologies in contemporary design.

ARCH 7912 Design B: Topics Studio

Spring. 6 credits. Staff.

Graduate vertical research studio.

ARCH 8901 Thesis or Research in Architectural Design

Fall or spring. 9 credits. Prerequisite: ARCH 7111-7912. Staff.

Second-year design course for M. Arch. II students whose major concentration is architectural design.

ARCH 8902 Thesis or Research in Urban Design

Fall or spring. 9 credits. Prerequisite: ARCH 7111-7912. Staff.

Second-year design course for M. Arch. II students whose major concentration is urban design.

ARCH 8911 Proseminar in Design Research

Spring. 3 credits. Prerequisites: ARCH 5301 and 5302.

ARCH 8911 offers a synthesis of design and research methods for the development of an independent thesis proposal. Course work includes exposure to different theories and practices of design inquiry, explorations of critical positions for individual development, and preparation of a document encapsulating research leading to a thesis proposition. Successful completion of the course, which includes approval of the thesis document, is a prerequisite for advancement into ARCH 8912: Independent Design Thesis.

ARCH 8912 Independent Design Thesis

Fall. 9 credits. Prerequisites: ARCH 8911, 5116.

An independent design project on a topic selected and developed by the student and researched in ARCH 8911. Marking the

transition between academic and professional practices, the thesis project is an opportunity for each student to define an individual position with regard to the discipline of architecture.

ARCH 8913 Design C: ADR Project

Summer. 9 credits. Staff.

Development of a design project in the student's territory of investigation.

Elective Design Courses**ARCH 1103-1104 Elective Design Studio**

1103, fall; 1104, spring. 6 credits each semester. Prerequisite: non-architecture students; for ARCH 1103, permission of instructor; for ARCH 1104, ARCH 1103 and permission of instructor. Staff.

ARCH 2100, 3100, 4100, 5100 Elective Design Studio

Fall, spring, or summer. 6 credits. For transfer students and students who are not architecture majors at Cornell.

Prerequisite: permission of department office. Each student is assigned to a class of appropriate level. Staff.

Nonsequence design used as temporary placement of transfer students, off-campus foreign programs for third-year students (summer and Rome) and for incompletes in design sequence. In some cases student must petition to convert elective design into sequence design.

ARCH 5103 Design IXa

Fall and spring. 6 credits. Limited to department students. Prerequisites: ARCH 4102 and passing, but non-advancing, grade in ARCH 5101.

Structured studio for those needing to retake ARCH 5101. The course operates within the fourth-year design studios.

ARCH 5104 Design Xa

Fall, spring, or summer. 6 credits. Limited to department students. Prerequisite: ARCH 5103 and passing, but non-advancing, grade in ARCH 5901.

A structured studio for those needing to take an alternative to design thesis. This course operates within the fourth-year design studio.

Related Courses and Seminars**ARCH 1110 Introduction to Architecture: Design Studio**

Summer. 3 credits. Open to non-architecture majors in college, high school students in 11th and 12th grades, and any individuals with a minimum of a high school diploma interested in exploring the field of architecture. S-U option. Not offered every year. Staff.

Designed to introduce students to ideas, principles, and methods of solving architectural problems in a studio setting. Through a graduated sequence of exercises culminating in a major semester project, students explore the architectural concepts of space, form, function, and technology. Instruction is via highly personalized critiques of individual student work by assigned department faculty members, as well as periodic reviews of the group by invited faculty and guest critics. The grade is based on the overall performance in the studio with special emphasis on the quality of a major studio project.

ARCH 1111 Concentration in Architecture: Design Studio

Summer only. 3 credits. Subject to enrollment. Prerequisite: non-architecture students. Not offered every year. Staff.

Designed to introduce students to ideas, principles, and methods of solving architectural problems in a studio setting. Through a graduated sequence of exercises culminating in a major term project, students explore the interrelationship of the architectural concepts of space, form, function, and technology. Instruction includes critiques of individual student work by department faculty, as well as by periodic reviews by guest critics.

ARCH 3103 Special Problems in Architectural Design

Fall or spring. Variable credit; max. 3. Does not count for design sequence credit. Prerequisite: permission of instructor and approved independent study form. Staff.

Independent study.

ARCH 3106 Praxis: Community Design Workshop (also ARCH 6106)

Fall or spring. 3 credits. Prerequisite: permission of instructor. Not offered every year.

Workshop-based, hands-on course directed to underserved local and global communities that seek to improve the quality of life for all citizens. It is an interdisciplinary, service-learning course that challenges the usual definition and separation of practice and theoretical research. Services are provided collaboratively to not-for-profit agencies, civic and governmental groups, as well as community-action groups to support sustainable design solutions. The course teaches professional work proficiency, and emphasizes teamwork as well as written, verbal, and graphic communication skills to negotiate the public realm.

ARCH 3113 Furniture Design

Fall or spring. 3 credits. Limited enrollment. Students who wish to earn arch visual representation credit must enroll in sec 01; arch technology credit, sec 02; and in-college elective credit, sec 03. Prerequisite: permission of instructor. Not offered every year. G. Hascup.

Explores the history, design, and materiality of furniture. Analyses of materials and joinery-connective systems are developed in parallel with ergonomic restraints. Design transformation occurs through cycles of conceptual alternatives (models and drawings), increasing in scale as the idea evolves. Full-scale prototypes and detailed tectonic drawings are required on three pieces.

ARCH 3117 Contemporary Italian Culture

Fall or spring. Variable credit; max. 3. Prerequisite: Rome Program participants. Staff.

Provides a broad view of the culture and social structure of Italy, drawing from Italian literature, history, and current events.

ARCH 5110 Thesis Proseminar

Fall and spring. 2 credits. Prerequisite: ARCH 4102. Staff.

Lectures, seminars, and independent research leading to complete development of the student's thesis program. General instruction in the conception, programming, and development of a thesis. This course is a prerequisite for ARCH 5901.

ARCH 5201 Professional Practice

Fall or spring. 3 credits. Staff. Examination of organizational and management theories and practices for delivering professional design services. Includes a historic overview of the profession and a review of the architect's responsibilities from the pre-contract phase through cost estimating and specifications to construction. Application of computer technology in preparing specifications.

ARCH 5202 Professional Seminar

Fall or spring. 3 credits. Prerequisite: ARCH 5201. Staff. Visits to public and private agencies and architectural firms. Discussions relative to the various aspects of each firm's practice and the identification of agency roles.

ARCH 5203 Curricular Practical Training

Fall or spring. 1 credit. Open to B. Arch. and M. Arch. students only. Approved independent study form required. Prerequisite: students whose internships are in a country other than that of their citizenship. S-U or letter grades. Independent study promotes an understanding of cultural differences within architectural practice. Course project involves writing a 10-page paper relating the experience of the internship to one or more texts approved by the instructor. Course may be taken more than once, but a maximum of 1 credit may be used to fulfill the in-college "free elective" distribution requirement. Students with summer internships enroll in the course during the spring semester prior to the internship and after obtaining an internship offer. Students with part-time fall or spring internships enroll in the course immediately after obtaining an internship offer.

ARCH 6105 Special Problems in Design

Fall and spring. Variable credit; max. 3. Does not count toward design sequence credit. Prerequisite: permission of instructor. Staff. Independent study.

ARCH 6106 Praxis: Community Design Workshop (also ARCH 3106)

Fall or spring. 3 credits. Prerequisite: permission of instructor. Not offered every year. For description, see ARCH 3106.

ARCH 6110 Graduate Design Seminar

Fall. 3 credits. Intended for, but not limited to, graduate students in Architectural Design and Urban Design Program. Not offered every year. Staff.

A companion seminar developing themes explored in ARCH 7111.

ARCH 6111–6112 Urban Housing Developments

6111, fall; 6112, spring. 3 credits each semester. Prerequisite: fourth- and fifth-year students in architecture and graduate students; permission of instructor. Not offered every year. Staff.

ARCH 6113 Transportation

Fall or spring. 3 credits. Prerequisite: permission of instructor. Not offered every year. Staff.

The effect of various transportation forms on the environment is considered from the perspectives of architects, engineers, planners, and human ecologists. Readings and discussions of past, current, and future

transportation modes focus on aesthetic and physical aspects.

ARCH 6114 Low-Cost Housing

Fall or spring. 3 credits. Prerequisite: permission of instructor. Not offered every year. Staff. Aspects of low-cost housing involving engineering technology, architecture, physical planning, economics, and sociology.

Architectural Theory**ARCH 1300 An Introduction to Architecture: Lectures**

Summer. 3 credits. Open to non-architecture majors in college, high school students in 11th and 12th grades, and anyone with minimum of a high school diploma interested in exploring the field of architecture. S-U or letter grades. Not offered every year. Staff.

Survey course that covers the many facets of architecture: history, design principles, preservations, landscape architecture, building technology, and cultural factors. Course format comprises lectures, demonstrations, films, and field trips. Evaluation is based on quizzes and a final exam.

ARCH 1301 An Introduction to Architecture

Fall. 3 credits. Open to out-of-department students only. ARCH 1301 is not a prerequisite for ARCH 1302. Staff. Intended to familiarize non-architecture students with the art and science of architecture. The fundamentals of plan, section, and elevation, the primary elements that comprise an architectural form; basic organizational principles; the ways in which we perceive architectural space; and the various concepts of function in relation to form will be included among the topics to be covered, using examples from numerous times and cultures as well as from contemporary Cornell campus.

ARCH 2301 Architectural Analysis I

Fall. 2 credits. Corequisite: for architecture students, ARCH 2101. Staff. Introduction to analysis of the object of study in the interest of broadening one's understandings of the ways in which architecture can connote and denote meanings.

ARCH 2302 Architectural Analysis II

Spring. 2 credits. Corequisite: for architecture students, ARCH 2102. Staff. Advanced analytical studies focusing on complex architectural spaces, objects, images, and representations.

ARCH 3304 Column, Wall, Elevation, Facade: A Study of the Vertical Surface in Architecture (also ARCH 6304)

Fall or spring. 3 credits. Prerequisite: third-year students and above. J. Wells.

Field and figure relationships (interrelation of parts dominated by the general character of the whole) are the general themes for studying numerous issues relevant to the design of elevations and facades. The first part of the semester is a lecture/seminar format. Students are required to research and present a paper for discussion. In the latter part of the semester, students do exercises to

demonstrate their understanding of the issues addressed.

ARCH 3307 Special Investigations in the Theory of Architecture I

Fall or spring. Variable credit, max. 3. Prerequisite: permission of instructor and approved independent study form. Staff. Independent study.

ARCH 3308 Special Topics in the Theory of Architecture I

Fall or spring. 3 credits. Prerequisite: permission of instructor. Not offered every year. Topic TBA.

ARCH 3309 Elements, Principles, and Theories in Japanese Architecture

Spring. 3 credits. Not offered every year. L. Mirin.

Examination of Japanese architecture (buildings and gardens) and their contexts: landscapes, settlements, and cities. The course is addressed to those interested in Japanese architecture as a manifestation of Japanese culture and as a subject for analysis. Emphasis is on underlying concepts, ordering principles, formal typologies, space and its representation, perceptual phenomena, and symbolic content. Readings focus on theoretical treatments of these aspects by Japanese and western writers.

ARCH 4302 Theory of Architecture

Fall or spring. 3 credits. Prerequisite: upper-level students. Not offered every year. Staff.

Development of urban form, urban intervention, contextualism, ideal cities, historic new towns, streets, piazzas, fortifications, public buildings and social housing types, site planning, and transportation.

ARCH 4305 Architecture and Representation

Fall or spring. 3 credits. Prerequisite: degree candidates in architecture; successful completion of ARCH 2301–2302. Not offered every year. Staff.

Study of architecture as it functions as a representational art, referring to its past while inferring its present.

ARCH 5301 Theories and Analyses of Architecture I

Fall. 3 credits.

Introduces students to influential critical and creative themes in modern architecture. Topics cover influential 20th-century discourses and practices prior to the 1960s, the questions and contexts that they engage, and their implications for contemporary thinking and design. Discussions and assignments aim at developing critical and graphical readings of both works and writings.

ARCH 5302 Theories and Analyses of Architecture II

Spring. 3 credits. Prerequisite: ARCH 5301. Continuation of ARCH 5301 focusing on themes in architectural discourse, design, and inquiry from the 1960s to the present, and their creative/critical implications.

ARCH 6301 Design Research

Fall. 3 credits. Staff.

Introduction to themes of inquiry in contemporary architecture, including critical motives in research, topical "problems," and materials and tactics of investigation.

ARCH 6304 Column, Wall, Elevation, Facade: A Study of the Vertical Surface in Architecture (also ARCH 3304)

Fall or spring. 3 credits. Prerequisite: third-year students and above. J. Wells. For description, see ARCH 3304.

ARCH 6305 Theory and Criticism in Architecture

Fall or spring. 3 credits. Prerequisite: permission of instructor. Not offered every year. Staff.

Inquiry into the fundamental principles of architectural criticism in theory and practice, with emphasis on the structures of criticism in the 20th century.

ARCH 6307 Special Investigations in the Theory of Architecture II

Fall or spring. Variable credit; max. 4. Prerequisite: permission of instructor and approved independent study form. Staff. Independent study.

ARCH 6308 Special Topics in the Theory of Architecture II

Fall or spring. 3 credits. Prerequisite: permission of instructor. Not offered every year. Staff.

Topic TBA.

Architecture, Culture, and Society

ARCH 3402 Architecture as a Cultural System (also ARCH 5402)

Fall or spring. 3 credits. Can substitute ARCH 4405 or 4407 by permission of instructor. B. MacDougall.

What have been the major issues in the theory and practice of architectural design through time and across cultures, and how is aesthetic judgment related to more general systems of ordering within a particular society or group? This course draws on concepts, methods, and findings from the broad field of cultural anthropology to address these questions. Case studies and examples are drawn from a wide range of architectural traditions around the world for which there is significant ethnographic literature, with special emphasis on sub-Saharan Africa, India, and the United States. Topics include the ideational and formal relationships between folk and monumental traditions in complex societies; the structure of the ideal social order and its refraction in the material world; cosmological models and architectural form; geometries of non-Western traditions; and the relationship between indigenization and culture change.

ARCH 3409 Undergraduate Investigations in Architecture, Culture, and Society

Fall or spring. Variable credit; max. 3. Prerequisite: permission of instructor and approved independent study form. B. MacDougall. Independent study.

ARCH 4405 Architecture and the Mythic Imagination

Fall. 3 credits. Prerequisite: ARCH 3402 or permission of instructor. Not offered every year. B. MacDougall.

ARCH 4407 Architectural Design and the Utopian Tradition

Fall. 3 credits. Prerequisite: ARCH 3402 or permission of instructor. Not offered every year. Staff.

ARCH 4408-4418 Special Topics in Architecture, Culture, and Society

Fall and spring. 3 credits each semester. Prerequisite: permission of instructor. B. MacDougall.

Topic TBA.

ARCH 5402 Architecture, Culture, and Society

Spring. 3 credits.

What have been the major issues in the theory and practice of architectural design through time and across cultures, and how is aesthetic judgment related to more general systems of order within a particular society or group? This course draws on concepts, methods, and findings from the broad field of cultural anthropology to address these questions. Case studies and examples are drawn from a wide range of architectural traditions around the world for which there is significant ethnographic literature, with special emphasis on sub-Saharan Africa, India, and the United States. Topics include the ideational and formal relationships between folk and monumental traditions in complex societies; the structure of the ideal social order and its refraction in the material world; cosmological models and architectural form; geometries of non-Western traditions; and the relationship between indigenization and culture change.

ARCH 6401-6402 Architecture in Its Cultural Context I and II

6401, fall; 6402, spring. 4 credits each semester. Prerequisite: permission of instructor. Not offered every year. B. MacDougall.

ARCH 6409 Graduate Investigations in Architecture, Culture, and Society

Fall or spring. Variable credit; max. 4. Prerequisite: permission of instructor and approved independent study form. B. MacDougall.

Independent study.

Visual Representation

ARCH 1501 Drawing I: Freehand Drawing

Fall. 2 credits. Staff.

Freehand drawing with emphasis on line as a means of visualizing form and space in architecture.

ARCH 1502 Drawing II: Drawing Systems

Spring. 2 credits. Prerequisite: ARCH 1501 or permission of instructor. Staff.

Concepts and methods of visualization and representational drawing systems used in architecture. Orthogonal projection, line weight, paraline projection, shade and shadow, and perspective.

ARCH 2503 Drawing III: Digital Media in Architecture

Fall or spring. 2 credits. Prerequisite: ARCH 1502 or permission of instructor.

Letter grades only.

Introduction to two- and three-dimensional digital media in architecture and its potential for visualization, representation, and analysis.

ARCH 4500 Architectural Publications

Fall or spring. Variable credit; max. 3. May be repeated for credit.

Colloquy and practicum on issues related to the production of an architectural journal, as well as other theoretical and practical production issues related to the exchange of architectural ideas. Exercises cover both

theoretical as well as hands-on aspects of architectural publication.

ARCH 4508 Special Investigations in Visual Representation

Fall or spring. Variable credit; max. 3.

Prerequisites: permission of instructor and approved independent study form. Staff. Independent study.

ARCH 4509 Special Topics in Visual Representation I

Fall or spring. 3 credits. Prerequisite: permission of instructor. Staff.

Topics TBA.

ARCH 5511 Techniques in Visual Representation I: Freehand and Analytical Drawing

Fall. 3 credits.

Focuses on hand drawing and sketching as vehicles for design thinking and perception. Observational, analytical, and transformational exercises develop creative proficiency in freehand line drawing and orthographic projection.

ARCH 5512 Techniques in Visual Representation II: Analog/Digital Constructed Drawing

Spring. 3 credits. Prerequisite: ARCH 5511 or approved equivalent.

Develops understanding of, and proficiency in projective drawing, including paraline and perspective representation in both analog and digital forms. Students are also introduced to a variety of digital representation applications, including modeling, rendering, and animation.

ARCH 6508 Special Investigations in Visual Representation II

Fall or spring. Variable credit; max. 4.

Prerequisites: permission of instructor and approved independent study form. Staff. Independent study.

ARCH 6509 Special Topics in Visual Representation II

Fall or spring. 3 credits. Prerequisite: permission of instructor. Staff.

Topics TBA.

Architectural Science and Technology

Structures

ARCH 2603 Structural Concepts

Fall. 4 credits. Prerequisite: MATH 1110 or approved equivalent. M. Cruvellier.

Fundamental concepts of structural behavior. Statics and strength of materials. Introduction to and analysis of simple structural systems.

ARCH 2604 Structural Elements

Spring. 3 credits. Prerequisite: ARCH 2603. J. Ochshorn or staff.

Concepts and procedures for the design of individual structural components (e.g., columns, beams) in steel, concrete, and timber construction.

ARCH 3603 Structural Systems

Fall or spring. 3 credits. Prerequisite: ARCH 2604. M. Cruvellier.

Concepts and procedures for the design of overall structural framing systems in steel, concrete, and timber construction.

ARCH 3604 Vertigo Structures (also ARCH 6604)

Fall or spring. 3 credits. Prerequisite: ARCH 3603 or equivalent. Limited enrollment. Not offered every year. M. Cruvellier.

ARCH 3605 Bridge Design (also ARCH 6605)

Fall or spring. 3 credits. Limited enrollment. Prerequisite: ARCH 3603 or equivalent. Not offered every year. M. Cruvellier.

The major visual impact of bridges on the built environment cannot be denied. And yet, during the past century, architects have virtually abandoned their historical role in the design of these structures. Engineers, on the other hand, have claimed bridge design as their responsibility and have hailed it as evidence of structural art. Are the basic principles of bridge design such that this situation makes sense for our society? Or is a rethinking of the manner in which bridges are designed called for? Students examine and experiment with the design of bridge structural forms, not only in terms of what is technically feasible but also, with equal emphasis, in the context of aesthetic, historical, and social considerations. Weekly meetings include lectures, discussion seminars, and studio-type design reviews.

ARCH 4603 Special Topics in Structures

Fall or spring. 3 credits. Limited to 30 students. Prerequisites: ARCH 2603, 2604, and 3603 or permission of instructor. Not offered every year. Staff.

Topics TBA.

ARCH 4609 Special Investigations in Structures

Fall or spring. Variable credit; max. 3. Prerequisite: permission of instructor and approved independent study form. Staff. Independent study.

ARCH 5603 Structural Concepts

Fall or spring. 3 credits. Prerequisite: M. Arch. I students or permission of instructor. M. Cruvellier.

For description, see ARCH 2603.

ARCH 5604 Structural Elements

Fall or spring. 3 credits. Prerequisite: M. Arch. I students or permission of instructor. J. Ochshorn.

For description, see ARCH 2604.

ARCH 6603 Structural Systems

Fall or spring. 3 credits. Prerequisite: M. Arch. I students or permission of instructor. M. Cruvellier.

For description, see ARCH 3603.

ARCH 6604 Vertigo Structures (also ARCH 3604)

Fall or spring. 3 credits. Prerequisite: ARCH 5603 or equivalent. Limited enrollment. Not offered every year. M. Cruvellier.

For description, see ARCH 3604.

ARCH 6605 Bridge Design (also ARCH 3605)

Fall or spring. 3 credits. Limited enrollment. Prerequisite: ARCH 3603 or equivalent. Not offered every year. Staff.

For description, see ARCH 3605.

Construction**ARCH 2602 Building Technology, Materials, and Methods**

Fall. 3 credits. J. Ochshorn.

Properties of materials—their use and application to the design of buildings and building systems. Discussion of various

methods of building construction and assembly.

ARCH 3607 Working Drawings (also ARCH 6607)

Fall or spring. 3 credits. Prerequisite: ARCH 2602 or equivalent. Limited enrollment. Not offered every year. J. Ochshorn.

ARCH 4604 Special Investigations in Construction

Fall or spring. Variable credit; max. 3. Prerequisite: permission of instructor and approved independent study form. Staff. Independent study.

ARCH 4605 Special Topics in Construction

Fall or spring. 3 credits. Limited to 30 students. Prerequisite: ARCH 2602 or permission of instructor. Not offered every year. Staff.

Topics TBA.

ARCH 5602 Building Technology, Materials, and Methods

Fall or spring. 3 credits. Prerequisite: M. Arch. I students or permission of instructor. Staff.

For description, see ARCH 2602.

ARCH 6607 Working Drawings (also ARCH 3607)

Fall or spring. 3 credits. Prerequisite: ARCH 2602 or equivalent. Limited enrollment. Not offered every year. J. Ochshorn.

Environmental Systems and Conservation**ARCH 2601 Environmental Systems I—Site Planning**

Spring. 3 credits. Staff.

Basic principles involved in design in the outdoor environment. A brief historical perspective. A development of inventory including grading and drainage. Foundations, surfacing, and construction.

ARCH 3601 Environmental Systems II—Thermal Environmental Systems

Fall. 3 credits. Prerequisites: ARCH 2601. Corequisite: ARCH 3101. Letter grades only. Staff.

The first semester of this yearlong course addresses the design of the indoor thermal environment, including the appropriate application of building envelope materials and assemblies, and an introduction to the principles of sustainability. Beginning with the basics of human thermal comfort, followed by the concept and practice of solar heating, passive cooling, indoor air quality, and human health, students will learn how to shape the form of a building to respond to climate and the needs of an occupant.

In the second half of the semester, students address the design of mechanical, electrical, and plumbing systems, including heating, ventilation and air-conditioning (HVAC) equipment, vertical transportation, communication, security, and fire protection systems.

ARCH 3602 Environmental Systems III—Building Systems Integration

Spring. 3 credits. Prerequisites: ARCH 2602, 2603, 3101 and 3601. Corequisite: ARCH 3102. Letter grades only. Staff.

The second half of this yearlong course addresses the design of the visual and acoustical environments of buildings.

Beginning with the basics of vision, followed by the concept and practice of daylighting, electric lighting sources, and human health, this course will provide students with a working understanding of light and sound as architectural media.

The objective of this yearlong course is to engage students to produce a comprehensive architectural project based on a building program and site. To do this, students will be required to select a design from a prior design studio project to develop in this course. In the comprehensive design project, students will be required to demonstrate an understanding of structural systems, environmental systems, building envelope systems, life-safety provisions, wall sections, building assemblies and the basic principles of sustainability.

ARCH 4601 Ecological Literacy and Design (also DEA 4220)

Spring. 3 credits. Letter grades only. Cost of field trips: approx. \$25. J. Elliott.

Lecture/seminar course for advanced (junior or senior) students interested in learning about the effects of designing the built environment of the biophysical world. Course objectives are to develop sensitivities to environmental issues, construct conceptual frameworks for analysis, and demonstrate how ecological knowledge can be applied to the practice of design through participatory approaches to learning. Visit <http://instruct1.cit.cornell.edu/courses/dea422/ARCH>.

ARCH 4618 Special Investigations in Environmental Systems and Conservation

Fall or spring. Variable credit; max. 3.

Prerequisite: permission of instructor and approved independent study form. Staff.

Independent study.

ARCH 4619 Special Topics in Environmental Systems and Conservation

Fall or spring. 3 credits. Limited to 30 students. Prerequisites: ARCH 2601, 3601, and 3602 or permission of instructor. Not offered every year. Staff.

Topics TBA.

ARCH 6601 Environmental Systems II—Thermal Environmental Systems

Fall. 3 credits. Prerequisite: second-year M. Arch. I students or permission of instructor. Letter grades only. Staff.

For description, see ARCH 3601.

ARCH 6602 Environmental Systems III—Building Systems Integration

Spring. 3 credits. Prerequisite: second-year M. Arch. I students or permission of instructor. Letter grades only.

For description, see ARCH 3602.

Computer Applications**ARCH 3702 Imaging and the Electronic Age**

Fall or spring. 3 credits. For undergraduate non-computer scientists. Not offered every year. D. Greenberg.

Historical technological advances that created major paradigm shifts for communications as well as advances in computer technology are presented. Technical fundamentals of computer graphics capabilities are emphasized. The latter half of the course covers the effect of these scientific advances on many disciplines-specific areas including

architecture, art and animation, photography and the film industry, medicine, engineering design, the corporate structure, and education. The course is heavily supplemented with pictorial content consisting of slides, movies, and live interactive demonstrations.

ARCH 3704 Computer Graphics I (also CS 4620)

Fall. 4 credits. Prerequisite: CS/ENGRD 2110. Staff.

For description, see CS 4620.

ARCH 4706 Special Topics in Computer Applications

Fall or spring. 3 credits. Limited to 30 students. Prerequisite: ARCH 3704 or permission of instructor. Not offered every year. Staff.

Topics TBA.

ARCH 4707-4708 Special Projects in Computer Graphics

Not offered every year.

ARCH 4709 Advanced Computer Graphics: Virtual Reality (also ARCH 6709)

Fall. 3 credits. Prerequisites: introductory computer graphics or computer science course, or permission of instructor; upper-level undergraduate or graduate standing.

Not offered every year. H. Richardson.

Explores the role of synthetic imaging and computer graphics in architectural design. The first half of the course examines the new possibilities that information technologies offer for multimedia visualization of architecture, from abstract conceptual drawings, to sketching, photorealistic rendering, and multimodal representation, including motion and sound. The second half explores the uses of information technologies to model and simulate the creative design process. These explorations include developing a library of design ideas as building blocks for design; creating multimodal, multidimensional, immersive, virtual environments; interactive transformation and synthesis of design concepts; and "reverse architecturing" of canonical works. The emphasis of this course is on concepts as well as methods and techniques of computer graphics and their application to simulating the creative design process in architecture.

Graduate Courses

ARCH 6709 Advanced Computer Graphics: Virtual Reality (also ARCH 4701)

Fall. 3 credits. Prerequisite: introductory computer graphics or computer science course or permission of instructor; upper-level undergraduate or graduate standing. H. Richardson.

For description, see ARCH 4709.

ARCH 7701-7702 Architectural Science Laboratory

7701, fall; 7702, spring. 6 credits each semester. Prerequisite: architectural science graduate students. D. Greenberg. Projects, exercises, and research in the architectural sciences.

ARCH 7903-7904 Thesis or Research in Architectural Science

7903, fall; 7904, spring. Variable credit; max. 12. Prerequisite: architectural science graduate students. Staff. Independent study.

Architectural History

The history of the built domain is an integral part of all aspects of the architecture curriculum, from design and theory to science and technology. Incoming students take ARCH 1801-1802 in the first year, and three additional courses from the 3800-3819 series, preferably in the third and fourth years. Seminars are intended for advanced undergraduate and graduate students and do not satisfy undergraduate history requirements. Courses with the same number may be taken only once to satisfy history of architecture or in-college requirements.

Sequence Courses

ARCH 1801 History of Architecture I

Fall. 3 credits. Requirement for first-year architecture students; open to all students in other colleges interested in the history of the built domain. Staff.

The history of the built environment as social and cultural expression from the earliest to more recent times. Themes, theories, and ideas in architecture and urban design are explored, beginning with the earliest written records.

ARCH 1802 History of Architecture II

Spring. 3 credits. Requirement for first-year architecture students; open to all students in other colleges interested in the history of the built domain; may be taken independently of ARCH 1801. Staff.

The history of the built environment as social and cultural expression from more recent times to the present. Architecture and urban design themes, theories, and ideas are addressed in greater detail leading to the present time.

Directed Electives

ARCH 3800 History of Theory

Fall or spring. 3 credits. Prerequisites: ARCH 1801-1802 or permission of instructor. Not offered every year. Staff.

This course, in which classroom discussion and debate play a central role, explores the history of important theoretical issues involving art and architecture. The readings, which span from the Greeks to today, focus on more than just questions of aesthetics and include theories of ethics, origins, imagination, nature, society, and pedagogy.

ARCH 3801 From Utopia to the Ghetto: Renaissance Urban Form

Fall or spring. 3 credits. Prerequisites: ARCH 1801-1802 or permission of instructor. Not offered every year. M. Lasansky.

Significant developments in European urban design from 1300 to 1600. Particular attention is given Italy and Spain. Focuses on a series of case studies: entire towns, specific urban spaces, and individual building types. Weekly discussions contextualize the city within a larger cultural framework. This course considers how civic, economic, social, political, legislative, technical, and material concerns have had a significant impact on the form, function, and patronage of these places, spaces, and structures. The relevance of Renaissance theory to contemporary practice is also emphasized through the discussion of several 20th-century urban plans and built projects.

ARCH 3802 The Cinematic City

Fall. 3 credits. Prerequisite: ARCH 1801-1802 or permission of instructor. Not offered every year. M. Lasansky.

Examines the relationship between cinematic forms of mass media and architecture.

Explores the representation, perception, and understanding of architecture as it has been mediated by various cinematic genres including film, television, and documentaries. Considers how cinema has been deployed as a tool in architectural production, how it has influenced the experience and design of space, the extent to which it has been used as a vehicle for critical commentary on the urban condition, and the way it is imbedded in the historical development of architecture and urbanism.

ARCH 3803 The Construction of Modern Life: The Politics of Memory and the Commodification of Architecture

Fall or spring. 3 credits. Prerequisite: ARCH 1801-1802 or permission of instructor. Not offered every year. M. Lasansky.

Examines the complex relationship between the built environment, the construction and definition of cultural heritage, collective memory and civic identity, and the commodification or commercial celebration of specific buildings, sites, and urban events. Focuses on late 18th-, 19th-, and 20th-century Europe. Particular attention is awarded to the discourse surrounding the restoration of buildings (and figures such as Ruskin, Viollette-Duc, and Giovannoni); political agendas guiding restoration and urban renewal projects; newly defined venues of modern urban spectacle (e.g., the World's Fair, department stores, morgues, and panoramas); and the role played by tourism in the commodification of local and foreign sites.

ARCH 3804 The Urban Landscape of Renaissance Rome: 1450 to 1600

Fall or spring. 3 credits. Prerequisites: ARCH 1801-1802 or permission of instructor. Not offered every year. M. Lasansky.

Exploration into the urban morphology, architecture, and civic life of Renaissance Rome. The city was a thriving center for architectural practice. It drew practitioners from throughout the peninsula and served as an important theoretical model for architects elsewhere. The course surveys the important issues, individuals, and building projects of the city between 1450 and 1600 with particular emphasis on the intellectual and physical rediscovery and re-appropriation of Antiquity; the role of the Vatican with its large population of pilgrims, tourists, resident church officials, foreign bankers, and dignitaries that made specific demands of the built environment; and the unique topography and natural resources of the city's location. The last portion of the course addresses the legacy of the Renaissance during the period of Italian unification and the Fascist regime.

ARCH 3805 Magnificent Utility—Architecture and the Arts of Persuasion

Fall or spring. 3 credits. Prerequisites: ARCH 1801-1802 or permission of instructor. Not offered every year. C. Otto.

Architects put revolutionary attitudes about form, space, light, and the arts into practice during the course of the 17th century. Focusing on the urban centers of Rome and Paris and the cultural landscapes of Spain,

England, and Central Europe, this course explores how architecture, urban design, and the arts were employed to promote state and church.

ARCH 3806 The Architecture of India and Its Interpretation

Spring. 3 credits. Not offered every year. B. MacDougall.

Surveys the architectural record of ancient and medieval India with an emphasis on stupa and temple traditions. Devotes attention to European efforts to write a Western-style architectural history for India and to the British fascination with explaining Indian ethnology and history over two centuries. Attempts to evaluate the claim made by the historian James Fergusson that architecture provided the basis for reconstructing an imperfectly known Indian history. Also examines the notion that scholarly enterprises were closely entwined with strategies for domination. To this end, students read 19th-century firsthand reports on architecture in antiquarian English-language journals alongside more modern accounts. They are compared with indigenous architecture writings that were often unacknowledged by Europeans.

ARCH 3807 19th Century: Tales of the City

Fall or spring. 3 credits. Prerequisite: ARCH 1801–1802 or permission of instructor. Not offered every year. M. Woods.

Focuses on 19th-century cities as settings for modernisms and modernities, new visions and experiences of modern life. The relationship between urbanism and creativity that emerges during the 19th century engages students in Berlin, Havana, Miami, London, Bombay, Paris, Harlem, and other cities. Issues of center and periphery, nation and locality, capital and colony also emerge. Urban pleasures and dangers for men, women, and the other as revealed through histories of the built environment but also through literature, painting, photography, and film are examined.

ARCH 3808 Modernism

Fall or spring. 3 credits. Prerequisites: ARCH 1801–1802 or permission of instructor. Not offered every year. C. Otto. Precursors and proponents of the modern movement from the late 19th century into the 1940s are considered in this course. The cultural intents of the modern are examined in architectural and urban design for individuals, groups, and institutions, from Mies van der Rohe, Le Corbusier, and Frank Lloyd Wright to de Stijl, the Bauhaus, and design education. Attention is paid to the politics of design serving the state in the 1930s.

ARCH 3809 Architecture, Revolution, and Tradition

Fall or spring. 3 credits. Prerequisites: ARCH 1801–1802 or permission of instructor. Not offered every year. C. Otto. From early 18th to early 19th century, European society underwent profound change. Political absolutism—the doctrine of unlimited governmental control—was challenged; enlightenment attitudes—commitments to human reason, science, and education—gained ascendancy. This course considers architectural and urban design in these times of tumult. It begins with efforts to foment architectural revolution within

inherited traditions and ends with attempts to establish design traditions within revolutionary settings.

ARCH 3810 American Architecture and Building I (also AMST 3810)

Fall or spring. 3 credits. Prerequisites: ARCH 1801–1802 or permission of instructor. Not offered every year. M. Woods. Review of architecture, building, and responses to the landscape from the prehistoric period to the Civil War. Architecture and building as social and collaborative arts are emphasized and thus the contributions of artisans, clients, and users as well as professional architects and builders are examined. The architectural expressions of Native Americans, African Americans, women, and others are treated in addition to those of European colonists and settlers.

ARCH 3811 American Architecture and Building II (also AMST 3811)

Fall or spring. 3 credits. Prerequisites: ARCH 1801–1802 or permission of instructor. Not offered every year. M. Woods.

Continuation of ARCH 3810 but may be taken independently. An account of American architecture, building, and responses to the environment from the post-Civil War period to the present day. Particular attention is paid to the processes of industrialization, professionalization, and urbanization as well as to the manifestations of gender, class, race, and ethnicity in the built and architectural environments.

ARCH 3812 Modern Architecture on Film

Fall or spring. 3 credits. Prerequisites: ARCH 1801–1802 or permission of instructor. Not offered every year. M. Woods.

Exploration of certain themes deemed critical to modern architecture and urbanism through their representation in both commercial and avant-garde films from the medium's birth until the present day. The focus varies each semester with particular emphases to include the modern house and housing, the modern city, technology and visions of the future, and finally the image of the architect. Representations of these themes in other forms such as painting, photography, theater, literature, and advertising also are examined. The course includes selected readings in modern architecture and film, screenings in class, class discussions, presentations, and papers.

ARCH 3813 The Cumulative City

Fall or spring. 3 credits. Prerequisites: ARCH 1801–1802 or permission of instructor. Not offered every year. C. Otto.

Well-established cities were transformed by radical and unimagined change in the 19th and 20th centuries. Politics and economies were recast, population exploded, and new technologies reshaped transportation, communication, and building. This course explores transformation historically in the cumulative city, focusing on specific cities in America and Europe, Africa and Asia. The cultural context of each city is examined to understand how it changed and how meanings became associated with evolving urban forms.

ARCH 3815 History of the Present—Contemporary Architecture and Urbanism

Fall or spring. 3 credits. Prerequisite: ARCH 1801–1802 or permission of instructor. C. F. Otto.

Theory and practice in architecture and urbanism are investigated from later Modernism to contemporary positions. Built work, theoretical texts and graphics, and the nature of design practice in locations worldwide (such as the United States and the Pacific Rim) raise issues of globalization and the specificity of place and cultural identity. By engaging the immediate past using methods of cultural and design history, the course problematizes the relationship (and relevance) of history to architectural practice and experience.

ARCH 3816 Special Topics in the History of Architecture and Urbanism

Fall or spring. 3 credits. Prerequisites: ARCH 1801–1802 or permission of instructor. Not offered every year. Staff. Topics TBA.

ARCH 3817 Special Topics in the History of Architecture and Urbanism

Fall or spring. 3 credits. Prerequisites: ARCH 1801–1802 or permission of instructor. Not offered every year. Staff. Topics TBA.

ARCH 3818 Special Topics in the History of Architecture and Urbanism

Fall or spring. 3 credits. Prerequisites: ARCH 1801–1802 or permission of instructor. Not offered every year. Staff. Topics TBA.

ARCH 3819 Special Topics in the History of Architecture and Urbanism

Fall or spring. 3 credits. Prerequisites: ARCH 1801–1802 or permission of instructor. Not offered every year. Staff. Topics TBA.

ARCH 3904 Toward the Millennium

Fall or spring. 3 credits. Prerequisites: ARCH 1801–1802 or permission of instructor. Not offered every year. C. Otto. Theory and practice in architecture and urbanism are investigated from the 1950s to the present. From the Americanized International Style to the more recent internationalism of design attitudes, the immediate past is explored historically to probe the matrix of meanings associated with contemporary form, urbanism, and technology.

ARCH 5801 History of Architecture I

Fall. 3 credits. Staff. The history of the built environment as social and cultural expression from the earliest times to the beginning of the modern period is studied through selected examples from across the world. Themes, theories, and ideas in architecture and urban design are explored through texts, artifacts, buildings, cities, and landscapes.

ARCH 5802 History of Architecture II

Spring. 3 credits. Prerequisite: ARCH 581 or approved equivalent. Staff. The history of the built environment as social and cultural expression from the modern period to the present day is studied through

selected examples from across the world. Architecture and urban design themes, theories, and ideas are explored through texts, artifacts, buildings, cities, and landscapes.

Graduate Seminars in the History of Architecture and Urbanism

All topics for ARCH 6802 to 6819 TBA before the start of the semester.

ARCH 6800 State of the Discipline

Fall or spring, 4 credits. Staff. This seminar will provide a survey of architectural historiography paying particular attention to the paradigm shifts of recent decades. Through the critical readings of important texts we will discuss the current state of the field while simultaneously reconsidering our position in it. The course will address how we apply theory to practice, develop research strategies that maximize methodological alliances, imbue the study of the past with contemporary relevance, and contribute as much to other disciplines as we borrow from them.

ARCH 6801 Foundations of the Discipline

Fall or spring, 4 credits. Staff. Explorations of seminal positions that established the disciplinary praxis of the history of architecture and urbanism, based on case studies.

ARCH 6802 Seminar in Urban History

Fall or spring, 4 credits. Prerequisite: permission of instructor. Not offered every year. Staff.

ARCH 6803 Seminar in History of Theory

Fall or spring, 4 credits. Prerequisite: permission of instructor. Not offered every year. Staff.

ARCH 6804 Seminar in Italian Renaissance: Architecture, Politics, and Urbanism

Fall or spring, 4 credits. Prerequisite: permission of instructor. Not offered every year. M. Lasansky.

ARCH 6805 Practicum

Fall or spring, 4 credits. Staff. This course exercises history of architecture and urbanism's capacities for affecting contemporary events through critical associations with the past. The workshop culminates in an exhibition, publication, symposium, curricular initiative, or other public occasion. Enrollment of qualified graduate students from associated fields is encouraged.

[ARCH 6806 Seminar in 17th- and 18th-Century Architecture and Urbanism]

[ARCH 6808 Seminar in 20th-Century Architecture and Urbanism]

ARCH 6809 Seminar in History of Cities

Fall or spring, 4 credits. Prerequisite: permission of instructor. Not offered every year. Staff.

[ARCH 6810 Seminar in American Architecture, Building, and Urbanism]

[ARCH 6812 Seminar in 19th-Century Architecture, Building, and Urbanism]

ARCH 6816 Seminar in Special Topics in the History of Architecture and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year. Staff.

ARCH 6817 Seminar in Special Topics in the History of Architecture and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year. Staff.

ARCH 6818 Seminar in Special Topics in the History of Architecture and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year. Staff.

ARCH 6819 Seminar in Special Topics in the History of Architecture and Urbanism

Fall or spring. 4 credits. Prerequisite: permission of instructor. Not offered every year. Staff.

Independent Study, Thesis, Dissertation

ARCH 2809 Undergraduate Independent Study in the History of Architecture and Urbanism

Fall or spring. Variable credit; max. 3. May not be taken by students in design to satisfy undergraduate history requirements. Prerequisite: permission of instructor. Staff.

Independent study for undergraduate students.

ARCH 4901 Undergraduate Thesis in the History of Architecture and Urbanism

Fall or spring. 4 credits. Prerequisite: B.S. honors candidates in history. Staff.

ARCH 7809 Graduate Independent Study in the History of Architecture and Urbanism

Fall or spring. Variable credit; max. 12. Prerequisite: permission of instructor. Staff.

Independent study for graduate students only.

ARCH 8920 M.A. Essay Research

Fall. 4 credits. Prerequisite: permission of instructor and approved independent study form. Staff.

Independent research for the M.A. essay.

ARCH 8921 M.A. Essay in the History of Architecture and Urbanism

Fall or spring. 6 credits. Staff. Independent preparation of the M.A. essay.

ARCH 9901 Ph.D. Dissertation in the History of Architecture and Urbanism

Fall or spring. Variable credit; max. 12. Staff.

Independent study for the doctoral degree.

ART

P. Phillips, chair (224 Tjaden Hall, 255-3558); M. Ashkin, director of graduate studies; R. Bertoia, J. Locey, T. McGrain; E. Meyer, G. Page, M. Park, B. Perlus, B. Spector, W. S. Taft, and visiting artists and critics.

Undergraduate Program

The curriculum in art is a program of study within the College of Architecture, Art and Planning, as well as other colleges at Cornell.

The undergraduate curriculum in art is an excellent background for a career in the visual arts. Past graduates have found it also to be preparation for careers in applied art, although no specific technical courses are offered in such areas as interior design, fashion, or commercial art.

The undergraduate curriculum in art, 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 four semesters, all students follow a common course of study designed to provide a broad introduction to the arts and a basis for the intensive studio experience of the last two years. Beginning with the third year, students concentrate in electronic imaging, painting, photography, printmaking, sculpture, or combined media.

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

All members of the faculty in the Department of Art are practicing, exhibiting artists, whose work represents a broad range of expression.

A candidate for the B.F.A. degree may also earn a bachelor of arts degree from the College of Arts and Sciences or the College of Human Ecology, or a bachelor of science degree from the College of Engineering, in a five-year dual degree program. This decision should be made early in the candidate's career (no later than the third semester) so that he or she can apply to be registered in both colleges simultaneously. Each student is assigned an advisor in both colleges of their dual-degree program to provide needed guidance. Candidates for two degrees must satisfy all requirements for both degrees. At least 62 of the total credits must come from courses offered in the Department of Art. In addition, all Department of Art requirements for first-year writing seminars, art history, and distribution must be met.

It is expected that a dual-degree candidate will complete the pre-thesis and thesis requirements for the B.F.A. degree during the fourth and fifth year.

Bachelor of Fine Arts Degree Requirements

Credits and Distribution

The B.F.A. degree requires 130 academic credits. A minimum of 59 are taken in the Department of Art.

Curriculum

Students are expected to take an average course load of 16 credits per semester during their four years. Students wishing to take more than three studio courses in any one semester must file a petition. All students must take at least one studio course a semester unless there are exceptional circumstances expressed in the form of a petition. **Any request to deviate from the standard curriculum must be petitioned to the department before the act. No student in the first year of the B.F.A. program will be permitted to deviate from the required curriculum.**

Specific Course Requirements

By the end of the second year, students must have completed an introductory course in each of the areas of painting, sculpture, printmaking, photography, electronic imaging, and four drawing courses. By the end of the third year, all students must have completed an additional 12 credits beyond the introductory level in three of the four areas.

Concentration

Students must plan their programs to complete 26–27 credits in one of the studio areas of electronic imaging, painting, photography, printmaking, or sculpture. Declaration of the area of concentration must be made by the second semester of the sophomore year. Students concentrating in combined media must also submit an approved projected course plan. B.F.A. students complete a senior thesis in one area of concentration and are required to participate in the Senior Exhibition in the semester the thesis is taken.

Concentration Requirements (27 credits total; 26 in printmaking)

The required courses for each concentration are as follows:

Electronic Imaging: ART 1701; 2304/2702 (1 of 2); 2703; 3703/3704 (1 of 2), 4701, 4702 (senior thesis)

Painting: ART 1201, 2201, 3201, 3202, 4201, 4202 (senior thesis)

Photography: ART 1601, 2601, 2603; 2604, 2605, 3601 (1 of 3); 4601, 4602 (senior thesis)

Printmaking: ART 1301/1302/1303 (2 of 3); 1304, 2301, 2302, 2303, 2304 (1 of 4); 3301, 4301, 4302 (senior thesis)

Sculpture: ART 1401, 2401, 3401, 3402, 4401, 4402 (senior thesis)

Dual Concentration

Students interested in studying in more than one area may choose to do a dual concentration. The dual concentration requires a first area, in which the thesis is conducted, and a nonthesis second area. Pre-thesis and thesis must be taken in the first area of concentration. Students take 23 credits in the first area of concentration (22 for printmaking) and 15 credits in the second area of concentration (14 for printmaking). Drawing is available only as a second area of concentration.

The required courses for the dual concentration are:

First Area of Concentration Total Credits

Electronic Imaging: ART 1701, 2304/2702 (1 of 2); 2703/3703/3704 (1 of 3), 4701/4702 23

Painting: ART 1201, 2201, 3201, 4201, 4202 23

Photography: ART 1601, 2601, 2603/2604/2605/3601 (1 of 4), 4601, 4602 23

Printmaking: ART 1301/1302/1303 (2 of 3), 2301/2302/2303 (1 of 3), 4301, 4302 22

Sculpture: ART 1401, 2401, 3401, 4401, 4402 23

Second Area of Concentration Total Credits

Drawing: ART 1501, 1502, 2501, 2502, independent study 15

Electronic Imaging: ART 2304/2702 (1 of 2), 2703, 3703/3704 (1 of 2) 15

Painting: ART 1201, 2201, 3201, 3202 15

Photography: ART 1601, 2601, 2603/2604/2605/3601 (2 of 4) 15

Printmaking: ART 1301/1302/1303 (2 of 3), 2301/2302/2303 (1 of 3), 3301 14

Sculpture: ART 1401, 2401, 3401, 3402 15

Note: The total number of out-of-college elective credits required will be adjusted to allow for the additional credits required of the dual concentration.

Combined Media Concentration

The combined media concentration enables students to fulfill concentration requirements by combining several studio disciplines, including out-of-department studio courses such as those offered in the departments of music and theatre, film, and dance.

Students must file an approved “area of concentration” form. In addition to the courses required of all B.F.A. majors during their first and second year (see B.F.A. curriculum), students must take two studios at the 2000 or 3000 level, a minimum of two “out of college” studio electives (OCE studio) of 3–4 credits each, ART 4801 Pre-Thesis in Combined Media and ART 4802 Thesis in Combined Media.

Note: The total number of in- and out-of-college elective credits required will be adjusted to allow for additional credits required of the combined media concentration.

Rome Program

Students in good standing who have completed the requirements of the first two years of the curriculum are eligible for participation in the Rome Program. Students are admitted to the program by application and review of their academic record. Applications are submitted to the Rome Program coordinator. Students applying to the Rome Program must meet with their faculty advisor and the department chair to obtain signatures of approval for admission to the program. Students in the department wishing to attend the Rome Program must register for a full semester of credits. The department recommends that students attend the program during the first or second semester of their junior year. (Under special circumstances, seniors may petition to attend the Rome Program.) **Only under special circumstances, and with prior petition and approval, are seniors allowed to attend the Rome program.** Students wishing to spend two consecutive semesters in Rome

must submit a petition, which should include the proposed course schedule for both semesters and must have appropriate faculty approval.

Sample Rome Curriculum

ART 4000	Rome Studio	4
	Requirement for Rome B.F.A. students, fulfills 4 credits in a studio concentration	
ART 2009	Site-Specific Processes	3
ART 3102*	Modern Art in Italy	3
ART 3107	History of Art in Rome: Early Christian to the Baroque Age	4
or		
ART 3108	History of Art in Rome: Renaissance in Rome and Florence	4
or		
ART 3702	Special Topics in Art History (Spring only)	4
or		
ART 3702	Special Topics: Intermediate and Advanced Drawing	3
ITALA 1110/1120	Italian Language	4
[ARCH 3107]	Contemporary Italian Film 1**]	

**Students may add by approved petition to take 19 credits in Rome.

17–18 Total

Other electives available to B.F.A. students include courses in architectural history, visual studies, city and regional planning, and the Independent Studio in Art.

Students may petition to take more than 16 credits per semester in the Rome Program. Students may study in Rome for one or two academic semesters.

*Fulfills 3000-level theory and criticism requirement.

Out-of-College Requirements

A minimum of 61 elective credits must be taken outside of the college. In the first year, students must take two first-year writing seminars. Students are required to take courses from among three groups, which include: physical and biological sciences (minimum of two courses, of at least 3 credits each); social sciences (minimum of three courses, of at least 3 credits each); and humanities and expressive arts (minimum of three courses, of at least 3 credits each). All B.F.A. students are required to take 20 credits in the history of art. One course must be taken in each of the following areas:

Modern: for example, 2600, 3600, 3740, 3760, 3605, 3650, 3660, 3550, 3170, 4525, 4047, 4600, 4816.

Non-Western: for example, 2350, 3550, 3510, 3800, 3805, 3855, 3850, 4525, 4150, 4578, 4850, 5571.

Three electives: any art history elective at the 3000 level or above or any architectural history elective. Also, approved 2000-level art history courses: 2190, 2019, 2200, 2227, 2355, 2400. (Note: Offerings may vary each semester. Students are encouraged to consult

the History of Art Department. Also students may petition to substitute courses of similar content.)

The university requirement of two semesters in physical education must be met.

A candidate for the B.F.A. degree at Cornell is required to spend the last two semesters of candidacy in residence at the university, subject to the conditions of the Cornell faculty legislation of November 14, 1962. No student may study in absentia for more than two semesters.

Students who transfer into the undergraduate degree program in art must complete a minimum of four semesters in residence at Cornell and a minimum of 60 credits at the university, of which 30 credits must be taken in the Department of Art, including four semesters of studio work.

For those students matriculating in fall of 2008:

Students are required to take AAP 1101 The World We Make; ART 1101 Introductory Art Seminar; ART 1201 Introductory Painting; Art 1501 Drawing I; ART 1401 Introductory Sculpture; Art History elective; and a first-year writing seminar during the fall semester of the freshman year. ART 1301/1302/1303 Introductory Printmaking; ART 1502 Drawing II; Art History elective; and an additional first-year writing seminar must be taken during the spring semester of the freshman year. Two 3000-level courses in theory and criticism must be taken sometime between the sophomore and senior years.

Courses that will fulfill the theory and criticism requirement (Note: Offerings may vary from year to year. Check the current course catalog.):

ANTHR 3420, 3422

ARCH 4407

ART 1700

ART 3101

ART 3102 (Rome students only)

ARTH 3660, 3170, 3500, 4113, 4322 (next offered 2010-2111), 4600, 4610, 5571, 5994

ASRC 3500, 6506

ENGL 395

GOVT 3755

First Year

<i>Fall Semester (Required Curriculum)</i>	<i>Credits</i>
1101 Introductory Art Seminar	1
Art History Elective	4
1201 Introductory Painting	3
1401 Introductory Sculpture	3
1501 Drawing I	3
First-year writing seminar	3
AAP 1101 The World We Make	1
	18

Spring Semester (Required Curriculum)

Art History Elective	4
1502 Drawing II	3
One of the following:	3
1301 Introductory Intaglio	
1302 Introductory Graphics	
1303 Introductory Lithography	
First-year writing seminar	3
In/out-of-college elective	3
	16

Second Year

<i>Fall Semester (Required Curriculum)</i>	<i>Credits</i>
1601 Introductory Photography	3
1701 Electronic Imaging in Art	3
2501 Drawing III	3
Out-of-college elective (OCE)/Art History	3-4
OCE	3
	15-16

Spring Semester

2000-level studio	4
2000-level studio	4
In/OCE	3
3000-level course in theory and criticism	3
OCE	3
	17

Third Year

<i>Fall Semester</i>	
2000-level studio	4
Art studio concentration	4
Art history elective or 3000-level course in theory and criticism	3-4
OCE	3
In/OCE	3
	17-18

Spring Semester

Art studio concentration	4
Art history elective or 300-level course in theory and criticism	3-4
In/OCE (two courses)	7

Fourth Year

<i>Fall Semester</i>	
Pre-Thesis	6
2502 Advanced Drawing Workshop	3
In/OCE (two to three courses)	7
	16

<i>Spring Semester</i>	
Thesis	6
In/OCE (three courses)	9

The M.F.A. Program

The master of fine arts program requires four semesters of full-time study, equal to a minimum of 60 credits. Graduate work done elsewhere or in the summer session is not applicable to the M.F.A. degree. The curriculum leading to the master's degree is flexible to accommodate the needs of the individual student and to enable the student to partake of the greater Cornell community. The ratio of graduate faculty to students allows an exceptional opportunity for individual mentoring. Graduate students are provided individual studios and have 24-hour access to studios and labs.

Graduate students in art may enroll in introductory or advanced courses in any field of study offered at the university. Fifteen credits are required in each semester; of these, 9 credits are in studio work, and 3 credits are in graduate seminar (ART 6101, 6102, 6203, 6204). Students are required to take at least 12 credits of academic work outside the Department of Art during their four semesters in residence. Candidates for the master of fine arts degree must have completed 18 credits in the history of art in the course of their graduate and/or undergraduate study. Prior undergraduate art history course work may apply toward this requirement and will be evaluated by the director of graduate studies. Any remaining credit toward this requirement must be taken at Cornell. Every M.F.A. candidate must prepare a written statement, offer a thesis exhibition of studio work completed during residency, and give an oral defense of the written statement and visual thesis. Gallery space is provided for a one-week solo thesis exhibition during the final spring semester.

Course Information

Most courses in the Department of Art are open to students in any college of the university who have fulfilled the prerequisites or have permission of the instructor. Priority is given to B.F.A. majors and AAP students.

Fees are charged for all studio courses. See the specific course description for course fees.

To take advantage of the special opportunities afforded by summer study, several courses are offered during summer session.

Guidelines for Independent Study

A student who wishes to undertake an independent study must be a junior and in good academic standing. Fine arts students must have completed two years of the curriculum, **including all first- and second-year studios and four semesters of drawing**. Students must have prior approval to have an independent study count as a drawing requirement. All students must have taken a minimum of one Cornell art department course in the area of the proposed independent study. It is recommended that the student take the independent study with a professor with whom they have previously studied. Out-of-department students may be exempt from the studio sequence requirement at the discretion of the supervising professor. Independent studies must be petitioned to count toward required studio courses. Credit hours are variable up to a maximum of 4.

Courses in Theory and Criticism

AAP 1101 The World We Make

Fall and spring. 1 credit. S-U grades. Staff. For description, see p. 128.

ART 1101 Introductory Art Seminar

Fall. 1 credit. Prerequisite: B.F.A. students. S-U grades only. Staff.

Students meet each week with a different member of the faculty. The varying artistic interests of the faculty are presented and discussed. A maximum of two absences are allowed except by permission of chairman.

ART 1701 Visual Imaging in the Electronic Age

Fall or spring. 3 credits. D. Greenberg. Interdisciplinary survey course designed to introduce students in the creative arts, science, and engineering to the concepts of digital pictorial representation and display. It is a concept and theory course that concentrates on "why" rather than "how." Topics include perspective representations, display technology, how television works, bandwidth concepts, digital photography, computer graphics modeling and rendering, matting and compositing, color perception, data acquisition, volumetric imaging, and historical precedents, primarily from the art world. Also included are other modes of imaging.

ART 2104 Art and the Multicultural Experience

Fall. 3 credits. R. Dalton.

Investigates selected topics related to art and the multicultural experience. Students study the basic vocabulary and tools used in the expression of art. Students question the nature of the visual arts as a discipline and survey art created by underrepresented American minority cultural groups.

ART 3101 Contemporary Art

Fall or spring. Lab fee: \$35. Staff. Students will be exposed to the ideas, issues, and methods of contemporary visual art by combining studio practice with discussions of critical and theoretical concerns in visual culture. The course combines lectures, readings, discussions, project work, and critiques. Students will make art by using a variety of mediums, with projects structured in relation to issues and artists covered in the lecture component. Discussions of historical movements and artists since the 1980s will be stressed. Studio assignments are designed to familiarize students with a number of ways of making art and in encouraging the understanding of the connections between the conceptual and the technical in art making.

ART 3102 Modern Art in Italy

Fall or spring. 3 credits. Fulfills 3000-level theory and criticism requirement for fine arts majors. Prerequisite: Rome Program participants. Staff.

Introduces students to contemporary art in Rome through studio visits, gallery exhibitions, and museum collections. Lectures by artists, critics, and others. Traces art from idea to realization and explores the gallery and its relationship to artists and to promotion of art, the role of the art critic and museum, and art collecting.

Related Courses

[ART 2009 Site-Specific Processes]

ART 3107 History of Art in Rome: Early Christian to the Baroque Age

4 credits. Rome Program. Not offered every year. Staff.

General survey of the early Christian period to the fantastic vision of Piranesi in the 18th century. Special emphasis will be placed on the developments of the Renaissance and Baroque periods. Weekly lecture and field trips.

ART 3108 History of Art in Rome: Renaissance in Rome and Florence

Not offered every year. Staff.

Surveys art from the beginning of the 15th century to Michelangelo's death (1564) with field trips to important churches, collections, and villas. Emphasis is given to sculpture and painting, and in the case of fresco, mosaics, and stucco decoration, the relationship with architecture and environment is a key element.

ART 4109 Independent Study/Supervised Readings in Art

Fall, spring, or summer. 4 credits, variable.

Prerequisite: juniors in good academic standing and written permission of instructor. Staff.

Independent reading and research allows a student the opportunity to investigate special interests that are not treated in regularly scheduled courses. The student develops a plan of study to pursue under the supervision of a faculty member.

Graduate Studio and Theory Courses

ART 5701 Theory Seminar

Fall or spring. 4 credits. Priority given to AAP and History of Art graduate students. Staff.

Introduces students in art, art history, and architecture to diverse theoretical texts of relevance to the three fields. Readings include classic texts in post-structural theory and more recent writings in new areas of theory and artistic practice, including digital art, cyber-feminism, globalization, museums and museology, architecture in/as visual space, biotechnology and artificial life, as well as issues in cognitive science and human-computer interaction centering on space and embodiment. Occasionally this seminar focuses on a single topic of convergence for these diverse areas.

ART 6101 Professional Skills for the Visual Artist

Spring. 3 credits. Prerequisite: M.F.A. students. Staff.

This seminar helps fine arts graduate students build professional skills that will assist them in their careers as practicing artists and in their work at art-related employment. Students complete a resource notebook that will be useful to them in the years after they graduate. Topics include: funding resources, exhibition opportunities, employment options, documentation of work, health, safety, and legal issues.

ART 6102 Recent Practice in the Visual Arts

Fall. 3 credits. Prerequisite: M.F.A. students. Staff.

This seminar is designed to provide graduate students with an overview of recent visual artwork. Students study work from a wide range of artists who have received significant

recognition within the visual arts community. Reviews of major exhibitions such as "Documenta," "La Biennale di Venezia," and the "Whitney Biennial" are discussed. Students are encouraged to travel to nearby cities to look at contemporary work.

ART 6103 Online Publication for the Visual Artist

Fall. 3 credits. Prerequisite: M.F.A. students. Staff.

Seminar designed to introduce graduate students to the basic principles of electronic imaging. As a major project, each student interviews a contemporary visual artist. These interviews are illustrated with digital images of each artist's work and combined in an online magazine. Additionally each student learns to create a home page on the web.

ART 6104 Contemporary Theory in the Visual Arts

Spring. 3 credits. Prerequisite: M.F.A. students. Staff.

Seminar exploring selected writings on the current issues represented within the visual arts. Designed to introduce graduate students to several approaches to critical inquiry and analysis of contemporary visual practice. Topics vary but may include related criticism in areas such as visual culture, semiotics, identity politics, and institutional frames.

ART 6203 Contemporary Theory and Visual Culture

Fall. 3 credits. Prerequisite: M.F.A. students. Staff.

Seminar exploring selected writings on current issues in the visual arts. Designed to introduce graduate students to several approaches to critical inquiry and analysis of contemporary practice in the visual arts. Topics vary but may include related criticism in areas such as visual culture, semiotics, identity politics, and institutional frames.

ART 6204 Current Criticism in the Visual Arts

Spring. 3 credits. Prerequisite: M.F.A. students. Staff.

Seminar designed to introduce graduate students to critical writing in the visual arts, both in print and in digital format. As a major project, each student interviews a contemporary visual artist. These interviews are illustrated with digital images of each artist's work and combined in an online magazine. Additionally, each student learns to create a home page on the web.

Graduate Studio Courses

ART 7001-7002 Graduate Studio I and II

7001, fall; 7002 spring. 9 credits.

Prerequisite: first-year M.F.A. students. Staff.

Required for all M.F.A. students. Course instructor is the chair of student's Special Committee. Students are responsible, under faculty direction, for planning their own projects and selecting the media in which they work. All members of the faculty are available for individual consultation.

ART 8001-8002 Graduate Studio III and IV

8001, fall; 8002, spring. 9 credits. Second-year MFA students. Staff.

Required for all MFA students. Course instructor is the chair of student's Special Committee. Students are responsible, under faculty direction, for planning their own

projects and selecting the media in which they work. All members of the faculty are available for individual consultation.

Undergraduate Studio Courses in Drawing

Fees for all drawing courses: \$25

ART 1500 Summer Drawing I

Summer. 3-week session. 3 credits. Course does not fulfill studio credit for BFA majors. Staff. General course introduces students to principles and techniques of representation. Emphasis is on creating the illusion of space and form through line, the rendering of light and shade, and studies in perspective. Students have the opportunity to explore various media such as charcoal, chalk, pencil, pen, ink, and wash.

ART 1501 Drawing I

Fall, spring. 3 credits. Staff. General course introducing students to principles and techniques of representation. Emphasis is on creating the illusion of space and form through line, the rendering of light and shade, and studies in perspective. Students have the opportunity to explore various media such as charcoal, chalk, pencil, pen, ink, and wash.

ART 1502 Drawing II

Spring. 3 credits. Prerequisite: ART 1501. Staff. General course in drawing that emphasizes figure study and life drawing. Builds on the foundation of ART 1501 and concentrates on the analytical study of the figure. Students explore a variety of materials, traditional and contemporary.

ART 1503 Summer Drawing II

Summer, 3-week session. Course does not fulfill studio credit for BFA majors. Staff. General course in drawing that emphasizes figure study and life drawing. Builds on the foundation of ART 1500 and concentrates on the analytical study of the figure. Students explore a variety of materials, traditional and contemporary.

ART 1507 Observation and Conception: Drawing

Summer, 6-week session. 3 credits. Staff. Experimental investigations related to various properties of drawing relevant to contemporary artistic practices. Working from the imagination as well as studies from life serve as the basic structure for this course. These practices range from pictorial representation to conceptual strategies. The team-taught aspect of this course allows for a critical discourse and an intensive approach to learning skills and developing sensibilities, building a foundation for all further advanced visual media studies.

ART 1508 Conceptual Drawing

Summer, six-week session. 3 credits. Staff. Emphasizes drawing from the imagination. Stresses the generation of ideas and their development in sketches. The intent is not to produce finished art but rather to experience a series of problems that require image and design concepts different from those of the artist working directly from nature.

ART 1509 Life and Still-Life Drawing

Summer, six-week session. 3 credits. Staff. Studies the human figure and still life both as isolated phenomena and in relation to their environment. Focuses are on helping the student observe and discover.

ART 2501 Drawing III

Fall. 3 credits. Prerequisite: ART 1502. Staff.

Intermediate drawing course in which students study composition, the articulation of form, and the illusion of space in a variety of materials. Expressive content, conceptualization, and the exploration of materials are stressed.

ART 2502 Advanced Drawing Workshop

Fall or spring. 3 credits. Prerequisite: ART 2501. Corequisite: BFA pre-thesis studio. Staff.

This advanced studio workshop focuses on the use of drawing for the development and refinement of complex visual expression. Using both traditional and nontraditional drawing approaches, students work to clarify their conceptual concerns and develop a pertinent visual vocabulary. This course begins with assignments structured to identify the conceptual and formal considerations central to each student's individual artistic intentions. Once identified, these artistic intentions become the basis for a rigorous investigation. The resulting body of work informs and supports advanced thesis work across the visual art and design disciplines. This course includes faculty and student presentations on historical and contemporary art, as well as regular critiques focusing on peer evaluation.

ART 4509 Independent Studio in Drawing

Fall, spring, or summer. 4 credits, variable. Prerequisites: juniors in good academic standing and written permission of instructor. Staff.

Independent studio in drawing that allows the student the opportunity to pursue special interests not treated in regularly scheduled courses. The student plans study and projects under the supervision of a faculty member selected to guide his or her progress and evaluate the results.

Undergraduate Studio Courses in Electronic Imaging

Course fees:

1701, 3702, 4709	\$250
2304, 2701, 2702	\$105
3703/3704	\$250
4701, 4702	\$70

ART 1701 Electronic Imaging in Art

Fall or spring. 3 credits. Staff.

This is an introductory studio course using the computer for contemporary art making. Students approach software programs by researching historical and contemporary art issues, with emphasis on the constructed image, motion, virtuality and interactivity.

ART 2304 Large-Format Digital Printing

Fall and spring. 4 credits. Prerequisite: ART 1701. Staff.

Focuses on the use of digital printing and its use in combination with traditional forms of printmaking. Students explore various approaches to image making while also using

traditional materials and media, including relief, monotype, lithography, screen printing, intaglio, transfers, collage, and photomechanical processes. Students use appropriate software, including Adobe PhotoShop, QuarkXPress, Final Cut Pro, and Adobe Illustrator to draw from both still and video-based sources. Students work with large-format inkjet printers.

ART 2702 Digital Video and Sound

Fall or spring. 4 credits. Prerequisite: ART 1701. Not offered every year. Staff. Studio course that introduces students to digital video including capture stills, animation, video, and sound with an introduction to interactive presentation and CD-ROM production. This course concentrates on the web.

ART 2703 Computer Animation (also CIS 5640)

Fall. 4 credits. D. Greenberg. Focuses on techniques of computer animations. Combines critical readings with studio projects that employ a variety of animation software. Topics include modeling, storyboarding, 2-D and 3-D key frame animation, motion and kinematics, lighting effect and shading, texturing and material properties, physical simulation, and cinematography.

ART 3703 Advanced Projects in Time-Based Art

Fall. 4 credits. Prerequisites: ART 1700 and one of the following: ART 2304, 2702, 2703, or permission of instructor. Letter grades only. Staff.

This course teaches advanced techniques for creating nonlinear moving images with digital sound. Projects include integrating key frame-based animation, layering animated text, still, and video images made with 3D software applications, field recording, and sound mixing. Emphasis will be placed on ways of integrating and manipulating time-based images and sound to make multimedia art projects and installations for public spaces.

ART 3704 Interactive Digital Media

Spring. 4 credits. Prerequisites: ART 1701 and one of the following: ART 2304, 2702, 2703, or permission of instructor. Letter grades only. Staff.

This is a project-centered studio course designed to encourage students to integrate computer-aided and time-based media (video, sound, motion graphics, and text) using physical materials and space. The course will challenge students to develop a theoretical understanding of the relationship between body and technology in a social and cultural context. Students will use digital technologies to create projects using interactive CD-ROM/web art, sensor and micro-controller aided interactive video and sound installations, real-time performance, and public space. The course encourages integrative approaches to studio production.

ART 4701 Pre-Thesis in Electronic Imaging

Fall and spring. 6 credits. Prerequisites: ART 1701, 2304 or 2702; 2703; 3703 or 3704. Staff.

For information, please call department.

ART 4702 Thesis in Electronic Imaging

Fall and spring. 6 credits. Prerequisite: ART 4701. Staff.

For information, please call department.

Undergraduate Studio Courses in Painting

Fees for painting courses (1201, 2201, 3201, 3202, 4201, 4202, 4209): \$40

ART 1201 Introductory Painting

Fall, spring, or summer. 3 credits. Staff. Studies the language of painting through color, form, materials, and techniques. Aspects of traditional and modern pictorial composition are studied including proportion, space, and color theory through the representation of a variety of subjects.

ART 2201 Painting II

Fall or spring. 4 credits. Prerequisite: ART 1201 or permission of instructor. Staff. Continuation of the study of aspects of pictorial composition initiated in ART 1201, focusing on problems relating to the depiction of the figure, space, and light. Topics are explored within the context of historical and contemporary artistic expression.

ART 3201 Painting III

Fall or spring. 4 credits. Prerequisite: ART 2201 or permission of instructor. Staff. Intensive study of painting materials and techniques to express pictorial ideas. A variety of traditional painting techniques are explored including egg tempera, fresco, gouache, encaustic, and oil. In addition, paints and associated techniques developed in the 20th century are used as well as developing technologies applicable to the painting process.

ART 3202 Painting IV

Fall or spring. 4 credits. Prerequisite: ART 3201 or permission of instructor. Staff. Advanced course centered on issues of artistic expression. A variety of painting media are used to address conceptual issues through representation as well as abstraction.

ART 4201 Pre-Thesis in Painting

Fall or spring. 6 credits. Prerequisite: ART 3202. Staff. Advanced study of painting through assigned and independent projects using a variety of materials leading to the formulation of a thesis project.

ART 4202 Thesis in Painting

Fall or spring. 6 credits. Prerequisite: ART 4201. Staff. Focused independent project demonstrating creative ability and technical proficiency. Projects are exhibited in an appropriate space at the end of the semester.

ART 4209 Independent Studio in Painting

Fall, spring, or summer. 4 credits, variable. Prerequisites: juniors in good academic standing and permission of instructor. Staff.

Independent studio in painting that allows students the opportunity to pursue special interests not treated in regularly scheduled courses. The student plans study and projects under the supervision of a faculty member selected to guide his or her progress and evaluate results.

Undergraduate Studio Courses in Photography

Darkroom fees for photography courses:

Black-and-white courses: \$135

Color courses: \$215

Additional black-and-white course taken the same semester: \$55

Additional color course taken the same semester: \$135

ART 1601 Photography I

Fall, spring, or summer. 3 credits. Staff. Basic lecture-studio course in black-and-white photography for beginners. Emphasis is on basic camera skills, darkroom techniques, and understanding of photographic imagery.

ART 1608 Black-and-White Photography

Summer, three-week session only. 3 credits. Staff.

Intended for students at all levels, from introductory to advanced. Emphasis is on camera skills, darkroom techniques, and the content of black-and-white photographic imagery.

ART 1609 Color Photography

Summer, three-week session only. 3 credits. Staff.

Intended for students at all levels, from introductory to advanced. Emphasis is on camera skills, darkroom techniques, and the content of color photographic imagery.

ART 2601 Photography II

Fall, spring, or summer. 4 credits. Prerequisite: ART 1601 or ARCH 2501, or permission of instructor. Staff.

Continuation of Photography I, concentrating on black-and-white photographic processes, history and theory of creative practice, and individual projects.

ART 2603 Color Photography

Fall and summer. 4 credits. Prerequisite: ART 1601 or ARCH 2501, or permission of instructor. Staff.

Studio course in color photography with emphasis on camera skills, darkroom techniques, and the content of color photography.

ART 2604 Photo Processes

Fall, spring, or summer. 4 credits.

Prerequisite: ART 1601 or ARCH 2501, or permission of instructor. Staff.

Studio course in alternative and nonsilver photographic processes. Emphasis is on camera skills, basic techniques and processes, image content, and creative use of photo processes.

ART 2605 Studio Photography

Fall or spring. 4 credits. Prerequisite: ART 1601 or ARCH 2501, or permission of instructor. Staff.

Course in the use of medium- and large-format cameras that explores technique, lighting, and the use of larger-format cameras for personal expression both in the studio and outdoors.

ART 3601 Photography III

Fall, spring, or summer. 4 credits.

Prerequisite: ART 1601, 2601, or permission of instructor. Staff.

Continued study of creative use of photography, with emphasis on specialized individual projects.

ART 4601 Pre-Thesis in Photography

Fall or spring. 6 credits. Prerequisite: ART 2601, 2603. Staff.

Studio course intended for photography majors and other qualified students.

ART 4602 Thesis in Photography

Fall or spring. 6 credits. Prerequisite: ART 4601. Staff.

Studio course intended for photography majors and other qualified students.

Advanced photography project to demonstrate creative ability and technical proficiency.

ART 4609 Independent Studio in Photography

Fall, spring, or summer. 4 credits, variable. Prerequisites: juniors in good academic standing and written permission of instructor. Staff.

Independent studio in photography that allows the student the opportunity to pursue special interests not treated in regularly scheduled courses. The student plans study and projects under the supervision of a faculty member selected to guide their progress and evaluate their results.

Undergraduate Studio Courses in Printmaking

Fees for printmaking courses:

Intaglio (1301, 2301, 4301, 4302, 4309): \$95

Screenprinting (1302, 2302, 4301, 4302, 4309): \$45

Lithography (1303, 2303, 4301, 4302, 4309): \$95

Expanded Print Forms (1304, 2304): \$95

ART 1301 Introductory Intaglio

Fall and spring. 3 credits. Staff. Basic introduction to etching techniques, with emphasis on engraving, lift ground, relief printing, monotypes, and experimental techniques.

ART 1302 Introductory Graphics

Fall and spring. 3 credits. Staff. Introduces the two-dimensional thought process and the language of vision. Students explore design projects and the use of graphic materials, including collage, pochoir, and screen printing.

ART 1303 Introductory Lithography

Fall and spring. 3 credits. Staff. Study of the theory and practice of lithographic printing, using limestone block and aluminum plate. Basic lithographic techniques of crayon, wash, and transfer drawing are studied.

ART 1304 Expanded Print Forms

Spring. 3 credits. Prerequisite: one of the following: ART 1301, 1302, 1303, 1601, 1701, 2501, or permission of instructor. Staff.

Intensive experimental studio designed to introduce students to various ideas and processes of making artists' books. Encourages the integration of studio practice (photography, printmaking, drawing, and painting) with new digital strategies (digital photography/ink jet print, video/sound, CD-ROM/digital book making). Presents both concept and process as related to the visual book form. An introduction to digital publication as an expanded print form helps students investigate how the book is reinvented or reshaped within an electronic context.

ART 2301 Intaglio II

Spring. 4 credits. Prerequisite: ART 1301. Staff.

Studio course in advanced etching techniques. Refinement of processes and

ideas through the uses of aquatint, spit bite, lift ground, soft ground, and dry point in black and white with an introduction to multiple-plate color printmaking.

[ART 2302 Advanced Screen Printing]

ART 2303 Lithography II

Spring. 4 credits. Prerequisite: ART 1303. Staff.

Theory and practice of lithographic printing using lithographic stones and aluminum plates. Traditional techniques in crayon, tusche wash, and color printing as well as photolithography using kodalith and computer-generated transparencies.

ART 2304 Large-Format Digital Printing

Fall and spring. 4 credits. Prerequisites:

ART 1601, 1701, and one of the following: ART 1301, 1302, 1303, 1304 or permission of instructor. Staff.

Focuses on the use of digital printing and its use in combination with traditional forms of printmaking. Students explore various approaches to image making while also using traditional materials and media, including relief, monotype, lithography, screen printing, intaglio, transfers, collage, and photo-mechanical processes. Students use appropriate software, including Adobe PhotoShop, QuarkXpress, Final Cut Pro, and Adobe Illustrator to draw from both still and video base sources. Students work with large-format inkjet printers.

ART 3301 Printmaking III

Fall or spring. 4 credits. Prerequisite: ART 2301, 2302, or 2303 or permission of instructor. Staff.

Study of the art of graphics through both assigned and independent projects. Work may concentrate in any one of the graphic media or in a combination of media.

ART 3302 Printmaking IV

Fall. 4 credits. Prerequisite: ART 3301 or permission of instructor. Staff.

Continuation and expansion of ART 3301.

ART 4301 Pre-Thesis in Printmaking

Fall or spring. 6 credits. Prerequisite: ART 3302. Staff.

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 4302 Thesis in Printmaking

Fall or spring. 6 credits. Prerequisite: ART 4301. Staff.

Advanced printmaking project to demonstrate creative ability and technical proficiency.

ART 4309 Independent Studio in Printmaking

Fall, spring, or summer. 4 credits, variable. Prerequisites: juniors in good academic standing and written permission of instructor. Staff.

Independent studio in printmaking that allows the student the opportunity to pursue special interests not treated in regularly scheduled courses. The student plans study and projects under the supervision of a faculty member selected to guide his or her progress and evaluate the results.

Undergraduate Studio Courses in Sculpture

Fees for sculpture courses:

1401:	\$50
2401, 3401, 3402, 3403, 4401, 4402:	\$75

ART 1401 Introductory Sculpture

Fall, spring, or summer. 3 credits. Staff.

Series of studio problems introducing the student to the basic principles of artistic expression in three-dimensions, i.e., clay modeling, direct plaster, plaster casting, and construction in wood, metal, and other materials.

ART 2401 Sculpture II

Fall or spring. 4 credits. Prerequisite: ART 1401, or architecture design studio, or permission of instructor. Staff.

Various materials, including clay, plaster, wood, stone, and metal, are used for exercises involving figurative modeling, abstract carving, and other aspects of three-dimensional form and design. Beginning in the second year, students are encouraged to explore bronze/metal casting processes. The sculpture program, which is housed in its own building, contains a fully equipped bronze-casting foundry.

ART 3401 Sculpture III

Fall or spring. 4 credits. Prerequisite: ART 2401 or permission of instructor. Staff.

Continued study of the principles of sculpture and conceptual development. Each student explores the selection and expressive use of materials, media, scale, and content. Group discussions and individual criticism. Experimentation is encouraged.

ART 3402 Sculpture IV

Fall or spring. 4 credits. Prerequisite: ART 3401 or permission of instructor. Staff.

Continuation and expansion of ART 3401. Special projects may include site-specific and/or large-scale installations.

ART 3403 Sculpture V

Fall or spring. 4 credits. Prerequisite: ART 3402 or permission of instructor. Staff.

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

ART 4401 Pre-Thesis in Sculpture

Fall or spring. 6 credits. Prerequisite: ART 3402. Staff.

Further study of the art of sculpture through both assigned and independent projects executed in various media. Instruction through bimonthly group discussions and individual criticism. Students complete a body of work through an approved statement of purpose and proposed schedule.

ART 4402 Thesis in Sculpture

Fall or spring. 6 credits. Prerequisite: ART 4401. Staff.

Advanced sculpture project to demonstrate creative ability and technical proficiency culminating in a cohesive B.F.A. thesis exhibition.

ART 4409 Independent Studio in Sculpture

Fall, spring, or summer. 4 credits variable. Prerequisites: juniors in good academic standing and written permission of instructor. Staff.

Independent studio in sculpture that allows the student the opportunity to pursue special interests not treated in regularly scheduled courses. The student plans study and projects under the supervision of a faculty member selected to guide their progress and evaluate their results.

Special Studio Courses

ART 1109 Internship Practicum

Fall, spring, and summer. Variable credit. S-U grades only.

Students serving as interns with art-related businesses or institutions may receive 1 academic credit upon receipt of a letter from the internship sponsor confirming successful performance of internship responsibilities. Students may earn up to 3 hours of nongraded credit for internships and these credits may not be used to fulfill or waive department of art academic and studio requirements.

ART 1505 Drawing Rome

Summer. 3 credits. Letter grades only. Staff.

The course introduces students to methods of representing space and form through a study and application of perspective and the effects of light and shade. Uses of line, tone, and color will be investigated. The subject is the city of Rome: its public spaces, churches, museums, archaeological zones, and the residents and visitors who occupy it. A variety of materials are used including pencil, ink, charcoal, pastel and collage. With the exception of one or two in-studio sessions, all work will be done on site. Course meets four weeks, 5X per week.

ART 3702 Special Topics in Art Studio

Fall, spring, or summer. 4 credits, variable. Staff.

Exploration of a particular theme or project. For example, Special Topics in Art History, offered spring 2009 for Rome Program participants.

ART 3709 Independent Studio in Rome

Fall and spring. 4 credits, variable. Prerequisites: Rome Program participants; juniors in good academic standing and written permission of instructor. Staff. Independent studio in Rome that allows non-art majors the opportunity to pursue special interests in fine arts not treated in regularly scheduled courses. The student plans a course of study or projects that meet the approval of the faculty member selected to guide his or her progress and evaluate the results.

ART 3809 Independent Study/Cornell in NYC

Fall, spring, or summer. 4 credits variable. Prerequisite: student in good academic standing and written permission of instructor on an approved independent study form. Staff.

Independent study or studio allows the student the opportunity to pursue special interests not treated in regularly scheduled courses. The student plans study and projects under the supervision of a faculty member selected to guide their progress and evaluate their results.

**ART 3901 Media Arts Studio I (also
ARCH 4509/6509, DANCE 3570)**

Fall. 3 credits. Prerequisites: FILM 3770; junior standing and permission of instructor. Equipment fee: \$50. Staff. For description, see DANCE 3570.

[ART 3902 Media Arts Studio II]**ART 4000 Rome Studio**

Fall or spring. 4 credits. Fulfils 4 credits of concentration requirement. Prerequisites: Rome Program participants; permission of instructor. Content for Rome studio determined by instructor. Lab fee: \$60; additional fees for photography and printmaking. Staff.

Emphasis is divided between work accomplished in the studio and work executed outdoors in the environs of Rome. Media consist primarily of painting, drawing, sculpture, and photography, or those assigned by the instructor.

**ART 4709 Independent Studio in
Electronic Imaging**

Fall, spring, or summer. 4 credits, variable. Prerequisites: juniors in good academic standing and written permission of instructor. Staff.

Independent studio in electronic imaging that allows the student the opportunity to pursue special interests not treated in regularly scheduled courses. The student plans study and projects under the supervision of a faculty member selected to guide his or her progress and evaluate the results.

**ART 4801 Pre-Thesis in Combined
Media**

Fall or spring. 6 credits. Prerequisite: written permission of instructor on combined media thesis form (must be received in art department before enrollment in course). Students must enroll in pre-thesis course in their primary area of concentration. Lab fee: \$70. Staff.

Students are responsible, under faculty direction, for planning their own projects and selecting the media in which they work. Projects should reflect experiences gained by exploring and combining various media including those taken in studio courses outside the department. Students select a faculty member from the area of concentration most appropriate to their area of combined media.

ART 4802 Thesis in Combined Media

Fall or spring. 6 credits. Prerequisites: ART 4801 and written permission of instructor on combined media thesis form (must be received in art department before enrollment in course). Students must enroll in thesis course in their primary area of concentration. Lab fee: \$70. Staff.

Students are responsible, under faculty direction, for planning their own projects and selecting the media in which they work. The projects should reflect experiences gained by exploring and combining various media including those taken in studio courses outside the department. Students select a faculty member from the area of concentration most appropriate to their area of combined media.

**ART 4809 Independent Studio in
Combined Media**

Fall, spring, or summer. 4 credits, variable. Prerequisites: juniors in good academic standing and written permission of instructor. Lab fee: \$70. Staff.

An independent studio in combined media that allows the student the opportunity to pursue special interests not treated in regularly scheduled courses. The student plans study and projects under the supervision of a faculty member selected to guide their progress and evaluate their results.

CITY AND REGIONAL PLANNING

W. W. Goldsmith, chair (106 W. Sibley Hall, 254-5378); S. Baugher, L. Beneria, R. S. Booth, director, URS program; N. Brooks, S. Christopherson, J. Chusid, P. Clavel, K. Donaghy, M. Drennan, J. F. Forester, A. Forsyth, R. Kiely, director, Urban Scholars Program, N. Kudva, C. Lai, D. Lewis, B. Lynch, P. Olpadwala, R. Pendall, K. Reardon, S. Saltzman, M. A. Tomlan, M. Warner. Emeriti: S. Czamanski, W. Isard, J. W. Reps, S. Schmidt, S. W. Stein, R. T. Trancik. Visiting: I. Azis, T. Vietorizs

The department offers several programs of study at both the undergraduate and graduate levels.

**The Undergraduate Program in Urban
and Regional Studies**

The program in Urban and Regional Studies (URS) is a four-year academic program aimed at assessing the problems of human communities and regions. Graduates from the program receive a Bachelor of Science degree. The program provides both an excellent liberal arts education and a strong concentration of studies addressing urban and regional issues. Courses in the program provide students with a broad understanding of urban issues, the ability to assess those issues, and skills technical analysis. The URS program is truly interdisciplinary: students learn to evaluate urban and regional problems by using wide ranges of analytic tools and disciplinary perspectives.

URS Statement of Purpose

The URS program encompasses an interdisciplinary, liberal arts course of study focused on the forces that shape the social, economic, and political character and physical form of cities, suburbs, and their surrounding regions. Students pursue knowledge in a range of disciplines, acquire significant writing skills, quantitative and non-quantitative analytical skills, and develop the capacity to think broadly and deeply regarding the past, present, and future of urbanized communities and their inhabitants.

Like many quality liberal arts programs, the URS program requires students to develop a broad academic base in the physical and biological sciences, quantitative methods and mathematics, social sciences and history, humanities and the arts, and writing. The major requires students to complete a series of four introductory courses and encourages them to develop expertise in looking at cities, suburbs, and metropolitan regions through a series of lenses. Students use theory to examine social dynamics, politics, economics,

history, design and land use patterns, and environmental problems.

Graduates pursue a wide variety of advanced studies and careers in city and regional planning, historic preservation, real estate, architecture, landscape architecture, public administration and law; and positions in the public sector: teaching, not-for-profit institutions, and consulting firms.

Advanced Placement Credit

Students may apply up to two courses of approved advanced placement credit in calculus, computer science, and science toward satisfaction of the distribution requirement in Groups 1 and 2 previously established by the College of Arts and Sciences or in the groups Physical and Biological Sciences (PBS) and Mathematics and Quantitative Reasoning (MQR) currently utilized by the College of Arts and Sciences, provided that they must complete at least one science course during their undergraduate career. They may apply no advanced placement credit toward the distribution requirement in Groups 3 and 4 previously established by the College of Arts and Sciences or toward the distribution requirements in categories currently established by the College of Arts and Sciences in Cultural Analysis (CA); Historical Analysis (HA); Knowledge, Cognition, and Moral Reasoning (KCM); Literature and the Arts (LA); and Social and Behavioral Analysis (SBA). Grades of S-U courses cannot be applied to the distribution requirements.

**Basic Degree Requirements for students in the
graduating classes of 2008–2009**

URS requirements for graduation include (a) eight semesters of residence; (b) 120 credits; (c) General Education Requirements consisting of writing seminars, qualification in one foreign language, and a series of distribution requirements; (d) required courses for the major; (e) area requirements for the major; (f) free electives; (g) a minimum of 34 courses; and (h) completion of the university requirement of two 1-credit nonacademic courses in physical education. Note: Physical education credit does not count toward graduation or toward the 12-credit minimum required for good academic standing each semester. No course may satisfy more than one requirement.

More specifically these requirements include:

1. General Education

- First-year writing seminars:* two courses. Students earning a score of 5 on both English literature and English language exams will receive 3 credits (in out-of-college electives) and place out of one first-year writing seminar.
- Foreign language:* three courses or qualification in one foreign language
- Distribution Requirements:* nine courses. Students must take a total of nine courses for the distribution requirement: four courses (of 3 or more credits each) from Groups 1 and 2 specified below, at least two of which are from Group 1, and at least one of which is from Group 2; five courses from Groups 3 and 4 specified below, with at least two in each group and two in the same department. No single course may satisfy more than one

distribution requirement. URS students must follow previously established College of Arts and Sciences guidelines specifying courses that meet the requirements for groups 1-4.

Group 1: Physical and biological sciences (two to three courses required)

Group 2: Quantitative and formal reasoning (one to two courses required)

Group 3: Social sciences and history (two to three courses required)

Group 4: Humanities and the arts (two to three courses required)

URS students will be provided a complete listing of courses in Groups 1 through 4 based on requirements previously established for the College of Arts and Sciences. Note: The Arts and Science distribution requirement was changed for entering freshmen in the class of 2007. Rather than selecting courses from Groups 3 and 4, Arts and Sciences students are required to complete five courses in at least four of the following five categories: Cultural Analysis (CA); Historical Analysis (HA); Knowledge, Cognition, and Moral Reasoning (KCM); Literature and the Arts (LA); and Social and Behavioral Analysis (SBA). Social science and humanities courses are marked individually by category, and any given department may offer courses that fall into distinct categories. URS students are encouraged to select their Group 3 and Group 4 courses from four of these five categories.

URS students may not apply college credit earned before entering Cornell as a freshman to satisfy any distribution course requirement. However, they may petition to have that credit counted toward the 120 total credits required for graduation.

2. Required Courses for the Major: seven courses

CRP 1100 The American City (fall, 3 credits)

CRP 1101 The Global City: People, Production, and Planning in the Third World (spring, 3 credits)

CRP 1106 URS First-Year Seminar (spring, 1 credit)

CRP 2000 The Promise and Pitfalls of Contemporary Planning (fall, 3 credits)

CRP 2010 People, Planning and Politics in the City (spring, 3 credits)

ECON 1110 Microeconomics (fall or spring, 3 credits)

Statistics: One course from a list of statistics courses (fall or spring, 3 credits)

3. Area Requirements: six CRP courses

The program requires that students take courses in six areas:

a. Design and Land Use (one course from designated list of courses)

Students understand cities, suburbs, and regions in terms of aesthetic perspectives and patterns of human land use that shape physical, social and economic conditions.

b. Urban History, Society, and Politics (one course from designated list of courses)

Students examine the growth, development, and character of today's urbanized areas/residents, in light of

complicated and evolving historical forces, social and economic concerns, and political constituencies, ideas, and choices.

c. Environment (one course from designated list of courses)

Students become aware of the past, present, and future influence of the natural environment as modified by humans, in shaping, and in many instances substantially limiting urban growth and development.

d. Regional Development and Globalization (one course from designated list of courses)

Students learn how far flung social and economic forces influence the economic health and general well-being of cities.

e. Methods for Planning and Urban Studies (one course in qualitative/field methods from designated list of courses)

Students learn to use interviews, surveys, participant observation, and other non-quantitative methods to analyze attitudes, behaviors, trends, and other information related to urban development.

f. Methods for Planning and Urban Studies (one course in quantitative methods from designated lists of courses)

Students learn tools to analyze economic, sociological, and other quantitative data relevant to the development, implementation, and assessment of public and private actions that influence the growth and development of cities.

Basic Degree Requirements for students in the graduating class of 2010

Students in the Class of 2010 must meet the same requirements as those specified for the classes of 2008-2009 except that they must also complete AAP 1101 The World We Make (fall, 1 credit) under required courses for the major.

Basic Degree Requirements for students in the graduating classes of 2011 and beyond

Students in the classes of 2011 and beyond must meet the same requirements as those specified for the class of 2010 except that they must complete their Distribution Requirements (under General Education Requirements) in accord with the Distribution Requirements established for the College of Arts and Sciences: i.e., requirements specifying minimum number of courses and acceptable courses in Physical and Biological Sciences (PBS); Mathematics and Quantitative Reasoning (MQR); Cultural Analysis (CA); Historical Analysis (HA); Knowledge, Cognition, and Moral Reasoning (KCM); Literature and the Arts (LA); and Social and Behavioral Analysis (SBA).

Honors Program

Each year a few well-qualified seniors may join the honors program at the beginning of their senior year. Each honors student develops and writes an honors thesis under the guidance of his or her faculty advisor.

Urban Studies Concentration (non-URS majors)

The Urban and Regional Studies concentration has been formulated specifically for those students not enrolled in

the Program of Urban and Regional Studies who are interested in complementing their current academic program with an introduction to various facets of urban studies (domestic, environmental, international, professional, urban affairs).

To complete the Urban and Regional Studies (URS) concentration, students must take at least six courses (minimum total of 18 credits) in the Department of City and Regional Planning (CRP). Courses must be completed with letter grade of C or above, as follows:

1. Nine (9) credits of required core courses:

CRP 1100 The American City (3 credits)

CRP 1101 The Global City: People, Production, and Planning in the Third World (3 credits)

CRP 2000 The Promise and Pitfalls of Contemporary Planning (3 credits)

2. Nine (9) credits of elective department courses at the 300 level or higher.

(Please consult department course listings.)

Students meet with their home college faculty advisor. Upon completion of course requirements, students complete a URS concentration application form, available in 106 W. Sibley Hall. The AAP registrar verifies course completion and grades for concentration requirements and signs the application form. The URS program director (who also serves as URS concentration advisor) verifies completion of the concentration, signs the form, and sends a letter (on department letterhead) to the student's home college. The home college will record completion of the URS concentration on the student's transcript.

URS Students in Concentrations Offered by Other Departments

The department recognizes concentrations earned within the university (accepting standards set by various colleges). URS students may apply for concentrations in any college (e.g. Africana Studies, Architecture, Latino Studies, Southeast Asian Studies, and Feminist, Gender, and Sexuality Studies). When a student satisfies the requirements for a concentration, and formal notification is received by the AAP registrar, the concentration will be recorded on the student's official transcript.

Off-Campus Opportunities

Cornell in Washington Program (C-i-W).

Students in good standing may earn degree credits through course work and an externship in Washington, D.C. Students at C-i-W may work as externs with congressional offices, executive-branch agencies, interest groups, research institutions, and other organizations involved in politics and public policy. Students take an 8-credit research course and select one or two seminars from such fields as government, history, economics, human development, architectural history, natural resources, and social policy. Cornell faculty members teach these seminars, which provide credit toward fulfillment of major, distribution, and other academic requirements.

Cornell Abroad. Qualified undergraduates are encouraged to study abroad because exposure to foreign cultures can be an eye-

opening aspect of a university education. In an increasingly interdependent world, the experience of living and learning in a foreign country is invaluable. Study-abroad opportunities are continually being developed, and programs are available in many countries. The department encourages URS students to explore these opportunities.

Cornell-in-Rome. Students in good standing can spend a semester at AAP's teaching facility, Palazzo Lazzaroni, in Rome. They earn credits in courses taken with Cornell faculty members assigned to Rome and with the resident faculty instructors. Courses are available in areas of urban development, regional development, architecture and art, Italian language, culture, and history.

AAP in New York City. The College of Architecture, Art, and Planning has a teaching facility in New York. The URS Program will have a New York semester for its students beginning in 2008–2009.

Research and fieldwork. Students are welcome to work with department faculty members on research or other opportunities that are appropriate to their particular interests. Fieldwork and community-service options also exist for students in the Urban and Regional Studies Program.

Additional Degree Options

Linked degree options. URS students may earn both a bachelor of science degree and a master of regional planning (M.R.P.) degree in a fifth year of study. Ordinarily the professional M.R.P. degree requires two years of work beyond that for the bachelor's degree. Under this option, a minimum of 30 credits and a master's thesis or thesis project are required for the M.R.P. degree. Interested students apply to the Graduate School, usually in the senior year.

Dual-degree options. A student accepted in Cornell's College of Arts and Sciences may earn both a B.A. in a College of Arts and Sciences major and a B.S. in Urban and Regional Studies in a total of five years. A student accepted in Cornell's College of Agriculture and Life Sciences (CALS) may earn both a B.S. in a CALS major (e.g., Landscape Architecture) and a B.S. in URS in a total of five years. Special requirements have been established for these dual-degree programs. Cornell students interested in pursuing the dual-degree program should contact either the director of the Urban and Regional Studies Program or the appropriate dean of the College of Arts and Sciences or of the CALS for further information.

Admissions Requirements and Procedures

Among the most important criteria for admission to the Urban and Regional Studies Program are intellectual potential and commitment—a combination of ability, achievement, motivation, diligence, and use of educational and social opportunities. Nonacademic qualifications are important as well. The department encourages students with outstanding personal qualities, initiative, and leadership ability. Above all, the department seeks students with a high level of enthusiasm and depth of interest in the study of urban and regional issues. Applicants must complete a university admission application. Although an interview is not required, applicants are urged to visit the

campus if that is possible. Applicants who want further information regarding the Urban and Regional Studies Program may contact Professor Richard Booth, program director, Urban and Regional Studies, Cornell University, 106 West Sibley Hall, Ithaca, NY 14853-6701, 607-255-4025.

Transfer Students

In most cases, transfer applicants should no longer be affiliated with a high school and should have completed no fewer than 12 credits of college or university work at the time of application. High school students who have completed graduation requirements at midyear and are taking college courses for the rest of the academic year should apply as freshmen. Prospective candidates who believe that their circumstances are exceptional should consult with the director of admissions in the Cornell division of interest to them before filing an application.

Forms for transfer application and financial aid are available from the Cornell University Office of Admissions, 410 Thurston Avenue, Ithaca, NY 14850-2488. Official transcripts of all high school and college work must be submitted along with SAT or ACT scores and letters of recommendation.

Prospective transfer students should have taken at least 6 credits in English. In addition, students should have taken basic college-level courses distributed across the natural and social sciences, humanities, and mathematics. Applicants whose previous course work closely parallels the "General Education" requirements of the Urban and Regional Studies curriculum will have relative ease in transferring. Nevertheless, students with other academic backgrounds, such as engineering, architecture, fine arts, management, and agriculture, are eligible to apply.

Although an interview is not required, applicants are urged to visit the campus if that is possible. Applicants who want further information regarding the Urban and Regional Studies Program may contact Professor Richard Booth, program director, Urban and Regional Studies, Cornell University, 106 West Sibley Hall, Ithaca, NY 14853-6701, 607-255-4025.

The Graduate Program in City and Regional Planning

There are five graduate degree programs in the city and regional planning department. The master of regional planning program (M.R.P.) stresses skills basic to professional planning practice and responds to individual needs and interests. The faculty strongly recommends that students concentrate in one of three areas of planning. The Land Use and Environmental Planning concentration focuses on the forces and actions that directly affect the physical character, transformation, rehabilitation, and preservation of cities and regions. Economic Development Planning: Communities and Regions focuses on the economies of neighborhoods, cities, and regions with the intent of producing more informed and effective economic development policy. International Studies in Planning (ISP) focuses on urban, regional, and international development processes and their implications for people's lives and livelihoods in diverse international contexts.

The master of professional studies in international development (M.P.S./I.D.) degree is administered jointly with the Cornell International Institute for Food, Agriculture, and Development (CIIFAD). It is intended to meet the specific training needs of experienced planners or midcareer professionals in related fields.

The 60-credit master of arts (M.A.) in historic preservation planning prepares students for professional work in the creative preservation and use of our physical heritage.

The master of science (M.S.) or master of arts (M.A.) degrees in regional science is the study of regional economies and their interactions with each other. Central issues include capital flows, trade, location of economic activity, growth, and regional conflicts. Graduates are positioned for careers as researchers and policy analysts at the highest levels in national governments, corporations, and international organizations.

The doctor of philosophy (Ph.D.) program is for those who seek advanced, specialized education for a career in teaching, research, or policy making.

Off-Campus Opportunities

Cornell in Rome. Graduate students have the opportunity to spend one or two semesters in Rome, studying at Cornell's center at the Palazzo Lazzaroni. Instruction is given by Cornell professors-in-residence and by other faculty. The program is structured to include work assignments in one of the international development organizations headquartered in Rome.

Course Information

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 have the permission of the instructor.

The department attempts to offer courses according to the information that follows. However, students should check with the department at the beginning of each semester for late changes.

Undergraduate Program in Urban and Regional Studies

CRP 1100 The American City

Fall. 3 credits. S-U or letter grades for out-of-department students only.
W. W. Goldsmith.

Introductory course on the evolution of urban problems and opportunities facing the majority of this country's population as we enter the first decade of the 21st century. Readings, discussions, and brief papers explore topics ranging from suburban development to central city poverty, from environmental threats to downtown revitalization, and from municipal finance to the new position of women in the urban economy.

CRP 1101 The Global City: People, Production, and Planning in the Third World

Spring. 3 credits. S-U or letter grades for out-of-department students only.
A. Forsyth.

Critical look at the physical and social development of giant cities in the Third World. Their origins, roles, contributions, and shortcomings are examined. Their place in

world political economy is evaluated. Policy prescriptions for their principal problems are discussed.

CRP 1106 URS First-Year Seminar

Spring. 1 credit. S-U grades only.
R. Booth.

Introduces students to substantive issues of the diverse disciplines that make up the planning profession through weekly interaction with CRP and other faculty members in the department. Students have the opportunity to engage in open discussions.

CRP 2000 The Promise and Pitfalls of Contemporary Planning

Fall. 3 credits. Prerequisite: CRP 1100.
A. Sanchez.

Introduction to the historical origins and evolution of the city planning profession in the United States. The theoretical foundation, core values, primary methods, and key challenges facing contemporary planners are examined through a combination of readings, lectures, films, guest speakers, and field trips. Students acquire a deeper understanding of professional practice by working with local officials to develop community development profiles for several Ithaca neighborhoods.

CRP 2010 People, Planning, and Politics in the City

Spring. 3 credits. Prerequisites: CRP 1100 and 1101. P. Olpadwala.

Seminar examining various bases of political and professional power. What do professionals who want to serve the public need to know about power and decision-making processes in the institutional settings in which they operate? How and why can professionals make a difference when facing problems characterized by great complexity and severe inequalities among affected groups? The course addresses these and others questions.

CRP 2610 Fieldwork in Urban Archaeology (also LA 2610)

Fall. 4 credits. S. Baugher.
For description, see LA 2610.

CRP 2930 Inequality, Diversity, and Justice (also GOVT 2935, SOC 2930, PHIL 1930)

Fall. 4 credits. R. Miller.
For description, see PHIL 1930.

CRP 3011 Ethics, Development and Globalization (also CRP 6011)

Fall or spring. 4 credits. K. Donaghay. This seminar surveys some of the most important recent contributions to the literatures of development ethics and global ethics and examines their power to illuminate such issues as the nature of development, poverty and human rights, globalization and local autonomy, environmentalism and consumerism, and humanitarian intervention and just wars.

CRP 3090 Community Development Seminar (also CRP 5090)

Spring. 3 credits. Letter grades.
K. Reardon.

Introduction to the theory, method, and practice of contemporary community development. Topics include: the role community-based organizations are playing in promoting sustainable development in distressed communities; the contribution planners are making to enhancing the organizational capacity of community-based

organizations; and the interplay between neighborhood-based community development activities and regional economic development policy-making.

CRP 3101 Race, Space, Place (also CRP 6101)

Fall or spring. 3 credits. C. Lai. This seminar examines critical theories of race and space and investigates key sites where racial formation and spatial production intersect. These multiscale sites include the neoliberal city, the prison industrial complex, and the Mississippi Delta. We analyze not only the fatal coupling of difference, power, and space, but also the spatial politics of resistance and refusal.

CRP 3102 Asian American Politics and Public Policy (also CRP 6102)

Fall or spring. 3 credits. C. Lai. This lecture course examines key political and public policy issues affecting Asian American communities, such as immigration law, racial profiling, labor struggles, and electoral politics. We pay particular attention to political mobilization efforts of different Asian ethnic groups and examine how these groups have organized, framed their issues, and mobilized in terms of space, place, and spatial scale.

CRP 3105 Urban Political Economy Seminar (also CRP 6105)

Fall or spring. 3 credits. Staff. This course deals with current topics in urban political economy and examines past and present dayseizure of land, resources, and ways of life as well as resistance against such seizures. We begin with an examination of colonial conquest and the expropriation of the English commons in the 17th and 18th centuries and conclude with contemporary anti-globalization struggles against privatization. Our reading will come from social history, political geography, and ethnic studies.

CRP 3180 Politics of Community Development (also CRP 5180)

Spring. 3 credits. Letter grades. Staff. Seminar on city economic development and community institutions. Attention to issues of local politics, planning, housing, and economics. Term papers on field investigations are encouraged. Topics vary from year to year.

CRP 3210 Introduction to Quantitative Methods for the Analysis of Public Policy

Spring. 3 credits. Not offered every year.
K. Donaghay.

Introduction to the role and use of quantitative methods in the study of urban and regional issues. Focuses on various types of models commonly used to analyze urban and regional policy, including regression models, cost-benefit analysis, simulation, and others. Strengths and weaknesses of those methods are also considered.

CRP 3270 Regional Economical Impact Analysis (also CRP 6270)

Fall. 3 credits. Letter grades. Staff. A central concern of practicing planners and economic development professionals is how different events affect the regional economy of concern. Some events are the result of policy choices, such as the closing of a military base or an increase in the local sales tax. Some are the result of exogenous economic forces such as out-migration of

population, disasters, natural-floods and hurricanes. This course defines the context, a regional economy, for such analysis, and then presents analytical tools for estimating economic impacts. The major tool covered in depth is regional input-output. Most of the course is devoted to understanding and applying IMPLAN, a software and data system for performing regional input-output analysis at the county level.

CRP 3280 Overview: Quantitative Methods in Policy Planning (also CRP 5280)

Fall or spring. 3 credits. S-U or letter grades. Staff.

Introduces students to the basic tools that are used in policy analysis. The goal is to set the context for the techniques presented, to understand the questions that each addresses, to be aware of their potential and limitations, their range of applicability, and the pitfalls to be avoided.

CRP 3300 Neighborhood Planning Workshop (also CRP 5300)

Spring. 4 credits. Letter grades. K. Reardon. Offers students the opportunity to collaborate with local residents, leaders, and officials in the development of revitalization plans that address the critical environmental, economic, and social challenges confronting their neighborhoods. A participatory action research approach is used to co-produce professional-quality development plans with local stakeholder groups. Significant fieldwork required.

CRP 3310 Social Justice and the City: Preparation for Urban Fieldwork

Spring. 3 credits. Prerequisite: Urban Scholar status or permission of instructor.
Letter grades only. R. Kiely.

Students are introduced to key sociological, economic, historical, and cultural issues embedded in planning for social justice in urban America. Topics include: local realities and micro and macro policies affecting housing, education, immigration, health, legislation, legal affairs, community development, and organizing in a large urban setting. In preparation for field-based learning and research experiences, the challenges of experiential education, public scholarship, and reflective practice will also be addressed both from the perspective of non-profit organizations and local government agencies serving under-resourced urban communities, and the undergraduate student as learner and worker. Students will be exposed to the principles of participant observation, informal/formal interviewing skills, managing field relations, professional ethics, and ethnographic report-writing.

CRP 3320 Post-Fieldwork Writing Seminar in Urban Policy (also CRP 5220)

Fall. 3 credits. Prerequisite: successful completion of Cornell Urban Scholars, Adult Literacy, or Urban Semester Programs or permission of instructor(s). S-U or letter grades. R. Kiely.

Designed to enhance students' research, writing, analytical, and organizational skills for producing policy-oriented articles that examine vital issues confronting the urban poor. Students will build on prior fieldwork with nonprofit organizations and public agencies.

CRP 3411 Growing Up In Cities

Fall or spring. 4 credits. K. Driskell. Growing Up in Cities is a global action research initiative that involves young people (ages 10 to 15) in exploring their local environment, identifying priorities for change, and working to make change happen. It is a comparative research initiative focused on how young people perceive, value, and use the urban environment; how they shape and transform urban spaces; and how the urban environment shapes and transforms their lives. It is also a community change initiative that seeks to develop stronger environmental awareness among young people; foster meaningful child and youth participation in community affairs and decision making; and nurture positive relationships between young people and 'enabling adults' to improve the local environment.

CRP 3430 Affordable Housing Policy and Programs (also CRP 6430)

Fall. 3 credits. S-U or letter grades.

R. Pendall.

Overview of federal, state, and local policies and programs to deliver affordable housing to low-income people; public housing, vouchers, inclusionary zoning, rent control, and much more. Lectures, debates, short papers, and term paper.

CRP 3500 Introduction to Environmental Planning (also CRP 6500)

Fall. 3 credits. S. Schmidt.

Introduction to problems facing planners and decision makers as they attempt to manage and preserve environmental quality in urban and rural settings. Case studies are used to discuss issues related to sustainability, quality of life, environmental hazards, and environmental justice. Students are also introduced to the basic regulatory and institutional aspects of environmental planning and tools and techniques for environmental impact assessment, inventorying, and risk analysis.

CRP 3502 Suburbia (also CRP 6502)

Fall or spring. 3 credits. A. Forsyth.

Cultural commentators love to hate suburbia but the suburban parts of metropolitan areas are expanding around the globe. Readings, films, and lectures cover topics including suburban history, design planning, ecology, social organization, politics, and culture. Students will use photography, mapping, discussions, and brief papers to develop their own views of suburbia.

CRP 3504 Comparative Urban Development (also CRP 6504)

Fall or spring. 3 credits. S. Schmidt.

This course examines the changing structural and institutional landscape urban planning and development as practiced in cities and regions in specific areas outside the U.S., with a particular focus placed on how these institutional arrangements and conditions compare with the U.S.

CRP 3506 Environmental Planning Seminar (also CRP 6506)

Fall or spring. 3 credits. E. Thorndike.

This course deals with current topics in environmental planning. Wilderness and wildland resources have been under assault by the Congress, the "Wise Use" movement, property-rights activists, pollutants, and the actual users. This seminar considers historical and philosophical foundations and political

factors that affect decisions about environmental policies, planning, acquisition, protection, and management. The roles of government, professional planners and managers, organized special interests, the legal system, citizens, and user groups are examined.

[CRP 3600 Pre-Industrial Cities and Towns of North America (also LA 2600/6660, CRP 6660)]**CRP 3601 Museum and the Public Sphere (also CRP 6601)**

Fall or spring. 4 credits. J. Chusid.

Evaluates different types of museums (art, science, history, arboreta, etc.), and their constantly evolving missions in contemporary societies. The material is addressed through site visits, lectures by faculty and guests, readings, case studies and a team semester-long project. Issues covered include the nature of collections; the nature of the audience; the purpose and role of museums; political and cultural questions about collecting, history and interpretation; governance and management; and the core ethical and intellectual values and positions implied or expressed by the institutions. Students will also undertake a comprehensive planning project for a local museum, to be presented to the client at the end of the semester.

CRP 3650 Gender and Globalization (also FGSS 3600)

Fall. 3 credits. L. Beneria.

For description, see FGSS 3600.

CRP 3670 Seminar in American Urban History (also CRP 6670)

Fall or spring. 3 credits. Prerequisite: permission of instructor. M. Tomlan.

Seminar in the historical evolution of the American city. Emphasizes factors in urban growth, the process of urbanization, the urban reform movement, and intellectual and social responses to the city.

CRP 3680 The History of Urban Form in America (also CRP 6680)

Fall or spring. 3 credits. Letter grades. M. Tomlan.

Covers the history of city planning in America from colonial times to the early 20th century, including brief reviews of European influences on urban form. Lectures, discussions, and short papers.

CRP 3700 The Regional Question: The Case of Italy

Spring. 4 credits, variable. Prerequisite: Rome Program participants; majors in urban and regional studies. Staff.

The "regional problem" in Italy has long interested regional planners, economists, sociologists, and political scientists. This course makes use of field trips to the Italian Mezzogiorno and the North to explore theoretical and practical aspects of regional inequality. The question of how Italy's integration into the European Union affects and is affected by its regional issues will be considered.

CRP 3720 20th-Century Italy: Politics and Society

Spring. 3 credits. S-U or letter grades for out-of-department students only. Staff.

Comprehensive survey of Italian society today, starting with Italy's geography and the historical forces that shaped the nation. Discussion includes north-south tensions and

such broad features of Italian social life as community structure, urban development, and family forms. The course also reviews selected institutional issues, such as gender, the system of education, problems of criminality and justice, economic reform, social class, religion, and politics.

CRP 3760 Latin American Cities (also CRP 6760)

Fall. 3 credits. A. Sanchez.

This course offers students an opportunity to understand urban dynamics in a rapidly changing region of the world. We ask how colonial powers, the nation-state, and global economic forces have shaped Latin American urban landscapes and the patterns of daily life in the city. The first part of this course explores the social, political, and spatial rural-urban flows, socio-spatial segregation, housing environment and employment. The second half of the course focuses on responses to these social and economic transformations; violence and repression, coping strategies, social movement, and transmigration.

CRP 3770 The City in Brazil (also CRP 6870)

Summer. 3 credits. S-U or letter grades.

W. Goldsmith.

Students are taught in Brazil by professors from Cornell and the Instituto de Pesquisa e Planejamento Urbano e Regional (IPPUR), at the Federal University of Rio de Janeiro. Students will live in three Brazilian cities, on site with local scholars, top city officials, and activists. In Belém de Para, at the mouth of the Amazon River, the focus is on the environment and development. In Brasília, the focus is on modernist planning of the new national capital with its signature Plano Piloto, the separated satellites cities, and migration from the Brazilian Northeast. In Rio de Janeiro, the focus is on housing, transportation, and the informal economy in the context of metropolitan growth and decline.

CRP 3780 Recycling and Resource Management (also CRP 5780)

Spring. 3 credits. S-U or letter grades. Not offered every year. Staff.

Advanced resource-recycling and management systems are critical to the development of a sustainable society. This course reviews the political, technological, and economic strategies necessary for cities and communities to achieve a closed-loop resource-management system. Drawing from readings, speakers, and field trips that examine the cutting edge of recycling-program development, the course provides students with comprehensive exposure to leading practitioners and best practices in the recycling field. Open to undergraduate and graduate students. Graduate students have additional research requirements.

[CRP 3800 Environmental Politics]**[CRP 3810 Principles of Spatial Design and Aesthetics (also CRP 5810)]****CRP 3840 Green Cities (also CRP 5840, LA 4950)**

Fall. 4 credits. S-U or letter grades. Not offered every year. S. Schmidt.

For the first time in history, a majority of human beings live in cities. As a result, any realistic solution to the global ecological crisis will need to include strategies for urban life

that are ecologically sound. This course examines the history and future of urban ecology and the technology and politics that shape it. Alternative transportation, renewable energy, urban design, recycling and resource management, and sustainable economics are explored as means toward transforming cities to become the basis of a new, ecological society. Open to both graduate and undergraduate students. Graduate students have additional research requirements.

CRP 3850 Special Topic: Pursuing a Municipal Policy Agenda Promoting Prosperity, Equity, and Sustainability

Fall. 3 credits. Letter grades only.

Offered in New York City. J. Nettleton. Students will investigate the structural changes taking place in the New York regional economy and the impact these changes are having on the spatial structure of the city. This background information will be used to identify the major environmental, economic, and social policy issues confronting local civic leaders. Special attention will be given to policy questions that affect economic growth, income and wealth distribution among social groups, environmental sustainability, and citizen participation in policy-making.

CRP 3851 Special Topic: Remaking of New York City: Identity Formation, Image Making, and Community Building in the City's Newest Immigrant Communities

Fall. 3 credits. Letter grades only. Offered in New York City. S. Beck. Students will learn about the history, culture, politics, and social life of NYC's newest immigrant communities through an immersion in the contemporary art, poetry, stories, and dance being produced by its most prolific young artists. Weekly visits to the studios, galleries, and performance spaces of these communities will be a central aspect of this experientially based course.

CRP 3860 Planning for Sustainable Transportation (also CRP 6860)

Spring. 3 credits. S-U or letter grades. Staff.

Explores issues related to sustainable transportation policy and practice. The course (1) provides an overview of current transportation trends and their impacts; (2) reviews themes such as planning history and politics, the problems with auto-dominated systems, and key challenges to development sustainable transport systems; and (3) looks at regulatory, design, and market-based approaches to reducing automobile-dependency, introducing creative sustainable solutions from around the world.

CRP 3900 Professional Planning Colloquium I (also CRP 7850)

Fall. 1 credit. Staff. Visiting lecturers address problems and opportunities in the practice of planning. Topical focus to be announced. The only formal requirements for the course are attendance and a three- to five-page paper about the lecture series.

CRP 4040 Urban Economics (also CRP 5040)

Spring. 4 credits. Prerequisite: microeconomics course. K. Donaghy. Analyzes urban phenomena from an economic point of view. Areas examined include economic aspects of urbanization processes and policies, determinants of urban growth and decline, urban land and housing markets, urban transportation, and urban public services. Some time is spent in discussing problems of cities in developing countries.

CRP 4080 Introduction to Geographic Information Systems (GIS) (also CRP 5080)

Spring. 4 credits. S. Schmidt. Geographic Information Systems (GIS) have revolutionized the way we manage, analyze, and present spatial information. This course focuses on GIS in the social sciences. Many of the exercises and examples are based on planning issues, but the concepts can be applied to many other disciplines such as government, economics, natural resources, and sociology. Some of the issues covered include: fundamentals of spatial analysis; overview of GIS technology and applications; designing a GIS project; gathering and analyzing data; and creating thematic maps.

CRP 4120 Devolution, Privatization, and the New Public Management (also CRP 6120, AEM 4330/6330, FGSS 4110/6110)

Fall. 4 credits. Prerequisite: ECON 1110 or equivalent. S-U or letter grades. Offered every other year. M. Warner. Addresses devolution and decentralization of government services in a national and international context and then focuses on the local public-sector response in the United States. Privatization, intermunicipal cooperation, and internal restructuring are reviewed, including changing roles for the private sector, nonprofit sector, and unions. Implications for policy, program design, public advocacy, and citizen involvement are addressed. A special topic may include welfare reform. Graduate students are expected to write a major research paper in addition to short papers throughout the semester.

CRP 4160 European City: The Public Sphere and Public Space

Spring. 4 credits, variable. Enrollment may be limited by instructor. Prerequisite: junior or senior standing; Rome Program participants. S-U or letter grades for nonmajors. Staff.

Examination of the social, economic, and political life of the European city, particularly Italian cities, especially Rome. Study of the socioeconomic underpinnings of the city. How are cities organized, and how do citizens relate to the state; the city to the nation; the nation to the global market? How and where do different groups of people live? How do they travel, inside the city and from city to city? How are new parts of the city developed and old ones preserved, transformed, or destroyed? What public services do people expect, and how are they delivered? What is the role of private business? How do Italians/Europeans confront problems of the urban environment, poor neighborhood services, and impoverished immigrants? In all these cases, how do Italian (or European) conditions and policies differ

from those in the United States (or elsewhere)?

CRP 4170 Economic Development: Firms, Industries, and Regions (also CRP 5170)

Fall. 4 credits. S. Christopherson. Economic development policy in the United States has focused historically on the provision of subsidies to individual firms. As the limitations of this strategy have become more apparent, alternative approaches including multifirm and workforce development are being implemented. This comparative course draws on cases from a variety of industries and national contexts. Particular attention is paid to economic development issues and policies in New York State.

CRP 4440 Resource Management and Environmental Law (also CRP 5440, NTRES 4440)

Spring. 4 credits. Prerequisite: junior, senior, or graduate standing and permission of instructor. R. Booth. Introduces the application of legal concepts and processes to the management of natural resources and natural-resource areas. Explores the role of the common law, statutory law, administrative regulations, and judicial decisions in managing these resources. Particular focus is given to the management of wildlife, wetlands, and critical resources on public lands, and to the conflicts inherent in government attempts to regulate important natural resources on private lands.

CRP 4480 Social Policy and Social Welfare (also CRP 5480)

Spring. 4 credits. Not offered every year. S. Christopherson. Addresses conceptual issues underlying social policy and the provision of social welfare and analyzes how different positions are reflected in a set of current social-welfare controversies. The first part of the course introduces principles that guide the development of social policy, including fairness and justice. Various conceptions of society are examined with reference to their influence on the nature and extent of social-welfare provision, comparing the United States with other industrialized countries. The second part examines how economic change and government policy affect social provision in the United States.

[CRP 4510 Environmental Law (also CRP 5510)]

Next offered 2010-2011.

CRP 4530 Environmental Aspects of International Urban Planning (also CRP 6830)

Fall. 4 credits. Open to advanced undergraduate and graduate students in planning, environmental studies, and related social and natural sciences. Staff.

This seminar examines the ways in which roles of diverse environmental actors—international organizations, national bureaucracies, scientific communities, NGOs, and social movement organizations—formulate environmental debates and design conservation and remediation programs and policies in the Third World.

CRP 4570 Community Service Fieldwork

Fall or spring. 4 credits, variable. Prerequisite: permission of instructor. Staff.

Undergraduate students work under the direction of a faculty member in the CRP department on a project that assists a public or nonprofit organization. Projects involve urban and regional issues as defined by a client and agreed upon by the faculty member.

CRP 4590 Legal Aspects of Land Use Planning (also CRP 5590)

Spring. 4 credits. R. Booth.

Survey of leading cases and legal concepts in land-use planning, with particular attention to zoning, subdivision control, condemnation, and growth-control issues.

CRP 4740 Urban Transformations in the Global South (also CRP 6740)

Fall or spring. 4 credits. S-U or letter grades. W. Goldsmith.

Economic globalization and the post-colonial political order are continually reshaping urban societies and landscapes in the global South, often by relegating everyday life to the margins and shrouding it in illegality. This course focuses on the spatial, social, and political dimensions of urban transformations, paying particular attention to such topics as competition among cities for international capital and its implications for sociospatial organization; dynamic interrelations between informality in labor markets and in housing; urban environmental challenges and municipal efforts to address them; and issues related to governance, social movements, and new formulation of citizenship.

CRP 4770 Issues in African Development (also CRP 6770)

Fall and spring. 1 credit. S-U grades only. M. Ndulo.

Examines a broad range of critical concerns in contemporary Africa including food production, human resource development, migration, urbanization, environmental resource management, economic growth, and policy guidance. The weekly presentations are made by invited specialists. Students are required to write a term paper.

CRP 4900 Student-Faculty Research

Fall or spring. 4 credits, variable. Prerequisite: undergraduates in Urban and Regional Studies Program. S-U grades only. Staff.

Research, reading, and/or writing project in which a student and faculty member choose a topic related to urban and regional studies.

CRP 4920 Honors Thesis Research

Fall or spring. 4 credits. Prerequisite: Urban and Regional Studies Program majors who have been selected as honor students by department faculty. Staff. Each selected student works with his or her thesis advisor.

CRP 4930 Honors Thesis Writing

Fall or spring. 4 credits. Prerequisite: CRP 4920. Staff. Each selected student works with his or her thesis advisor.

CRP 4940 Professional Practice Seminar: New York City

Fall. 12 credits, variable. Offered in New York City. Staff. Students will work with program faculty in devising a detailed learning plan that identifies the new knowledge, skills, and capacities they seek to gain through their New York City-based professional internship experience. Students will be placed in public,

private, and non-profit organizations where they will engage in challenging professional activities designed to assist them in acquiring these new competencies. Students will participate in a weekly reflective seminar where they will systematically reflect upon their field-based learning experiences to prepare them to complete a detailed learning portfolio and capstone project through which they can demonstrate their mastery of the theoretical, conceptual, methodological, and policy content identified in their individualized learning plans. Students will be introduced to key concepts and methods in adult learning, experiential education, field-based research methods, and organizational behavior to empower them to function as both self-directed and reciprocal learners.

CRP 4970 Independent Study

Fall or spring. 4 credits, variable.

Prerequisite: junior or senior standing; permission of instructor. Staff.

Graduate Courses and Seminars

Courses numbered from 5000 to 5990 and 6000 to 6990 are generally considered introductory or first-year courses; those numbered from 7000 to 7990 and 8000 to 8990 are generally considered more advanced. Upper-level undergraduate courses are numbered from 3000 to 4990. (Undergraduate students with the necessary prerequisites and permission of the instructor may enroll in courses numbered 5000 and above.)

CRP 5040 Urban Economics (also CRP 4040)

Spring. 4 credits. Not offered every year.

Prerequisite: microeconomics course.

K. Donaghy.

For description, see CRP 4040.

CRP 5071 City and Regional Planning Workshop

Fall or spring. 4 credits. Staff.

City and Regional Planning workshop courses focus on planning issues and problems that combine several of the topics undertaken in the various workshop categories. Topics may include public policy issues regarding land use, transportation, public space, municipal services, environmental impact, housing and economic development, and public participation.

CRP 5072 Land Use, Environmental Planning, and Urban Design Workshop

Fall or spring. 4 credits. Staff.

Land Use and Environmental Planning workshop courses focus on the forces and actions that directly affect the physical character, transformation, rehabilitation, and preservation of natural landscapes, cities and regions. Topics of study include, among other, development of land use and natural conservation plans, design and implementation of "smart growth" policies, evaluation of infrastructure requirements, strategies for making cities more environmentally sustainable, design and analysis of public spaces, strategies for increasing housing opportunities.

CRP 5073 Historic Preservation Planning Workshop

Fall or spring. 4 credits. Staff.

Historic Preservation Planning workshop courses take students into the field to engage

in a range of problems, from conducting a historic resources survey working in a city, town, or village in the region, to developing a scheme for revitalization of an entire neighborhood, to a site-specific economic analysis for the renovation of a surplus school.

CRP 5074 Economic and Community Development Workshop

Fall or spring. 4 credits. Staff.

Economic and Community Development workshop courses focus on the economics of neighborhoods, cities and regions with the intent of producing more informed and effective economic development policy. Topics of study include, among others, the application of analytical tools needed to produce first-rate economic development plans, the special needs of excluded, poor and segregated communities, use of quantitative and qualitative methods to address social inequalities, the politics of planning, relationships between economic development and community development.

CRP 5075 Real Estate Workshop

Fall or spring. 4 credits. Staff.

Student are asked to undertake the preparation of reports analyzing various aspects of real estate activity. Individual and team working relationships are required. A range of types of problems that may be encountered in the real estate field are addressed, including project feasibility, marketing, planning and design, legal constraints and concerns, and others. Projects focus on real world case studies and require professional level reports suitable for oral and written presentations.

CRP 5076 International Planning and Development Workshop

Fall or spring. 4 credits. Staff.

International Planning and Development courses focus on urban, regional, and international development processes and their implications for people's lives and livelihoods in diverse international contexts. Particular attention is paid to critical assessment of programs that reflect a commitment to environmental sustainability, economic vitality, and social justice.

CRP 5080 Introduction to Geographic Information Systems (GIS) (also CRP 4080)

Spring. 4 credits. S. Schmidt.

For description, see CRP 4080.

CRP 5090 Community Development Seminar (also CRP 3090)

Spring. 3 credits. K. Reardon.

For description, see CRP 3090.

CRP 5120 Public and Spatial Economics for Planners

Spring. 3 credits. No prior knowledge of economics necessary. I. Azis.

Covers basic microeconomic theory and some topics in macroeconomics. What distinguishes it from foundation courses in economics is that the context of every topic is both spatial and public. The concept of space is central to city and regional planning. The perspective of the public and nonprofit sectors is the same as that of city and regional planning. Both space and the public-nonprofit sectors are peripheral to (or absent from) the usual graduate foundations courses in economics. The course also covers the economic theory necessary to understand the many applications of economics presented in

subsequent courses in city and regional planning.

CRP 5130 Introduction to Planning Practice and History

Fall. 4 credits. J. Forester.

Introductory graduate seminar on the theory and history of planning, administration, and related public intervention in urban affairs. Topics are analyzed from the perspective of the political economy of the growth and development of cities. Students improve their understanding of the planning process and of the urban application of the social sciences, get practice in writing, and explore one research topic in depth.

CRP 5170 Economic Development: Firms, Industries, and Regions (also CRP 4170)

Fall. 4 credits. S. Christopherson.

For description, see CRP 4170.

CRP 5180 Politics of Community Development (also CRP 3180)

Spring. 3 credits. P. Clavel.

For description, see CRP 3810.

CRP 5190 Urban Theory and Spatial Development

Spring. 3 credits. W. Goldsmith.

Surveys theories on the existence, size, location, and functioning of cities and their metropolitan areas in rich and poor regions of the world. Considers orthodox/conservative treatments as well as critical/left-wing perspectives of planners, geographers, economists, sociologists, and political economists. These theories are indispensable for understanding the origins of cities, the persistence of urban and regional spatial patterns, and the distinctive nature of urban problems.

CRP 5200 Statistical and Mathematical Concepts for Planning

Fall. 3 or 4 credits. Not offered every year. Staff.

Introduction to statistical and mathematical concepts and methods of importance in planning and policy analysis. Topics include matrix algebra, probability, sampling, estimation, and regression, and the use of a microcomputer statistical package.

CRP 5210 Mathematical Foundation for Planning Analysis

Fall. 1 credit. Meets for two hours, once each week, for approximately half the semester. Prerequisite: permission of department. S-U grades only. Not offered every year. Staff.

Review of mathematical foundations for planning analysis. Topics include probability statistics, mathematical functions, and matrix algebra. Intended for students with prior course work as a refresher course in preparation for higher-level courses in planning analysis.

CRP 5220 Post-Fieldwork Writing Seminar in Urban Policy (also CRP 3320)

Spring. 3 credits. Prerequisite: successful completion of Cornell Urban Scholars, Adult Literacy, or Urban Semester Programs or permission of instructor(s). S-U or letter grades. R. Kiely.

For description, see CRP 5320.

CRP 5250 Introductory Methods of Planning Analysis

Fall. 4 credits. R. Pendall.

Quantitative and qualitative analysis of neighborhoods, cities, and regions. Focus is on data from various regions of the United States, but tools are applicable throughout the world. They include: descriptive and inferential statistics, mapping, and observation. Required lab exposes students to essential microcomputer applications and builds skills in writing and analysis.

CRP 5280 Overview: Quantitative Methods in Policy Planning (also CRP 3280)

Fall and spring. 3 credits. S-U or letter grades. Staff.

For description, see CRP 3280.

CRP 5290 Mathematics for Planners

Fall. 4 credits, variable. S-U or letter grades. Not offered every year. Staff.

Covers basic mathematical concepts and techniques—with an emphasis on calculus—needed by the student who wishes to take intermediate-level courses in economics, urban and regional analysis, quantitative methods for the social sciences, and policy analysis. Topics include: matrix algebra, set theory, functions, differentiation, and integration.

CRP 5300 Neighborhood Planning Workshop (also CRP 3300)

Spring. 4 credits. K. Reardon.

For description, see CRP 3300.

CRP 5320 Real Estate Development Process

Fall. 3 credits. Letter grades. Fee for case studies packet. B. Olson.

Examination of various forms of development as well as the role of major participants in the processes. Reviews issues in residential, retail, industrial, office, and low-income housing projects. Guest speakers and case studies included.

CRP 5330 Real Estate Marketing and Management

Fall. 3 credits. R. Abrams.

Focuses on the tenant or user as the basic source of the value of real estate. Students explore the characteristics and needs of tenants, and how the ownership and management of buildings respond to these needs. Multifamily residential and office buildings are the principal focus of the course. Topics include marketing research, examination of tenant types, locations, building services and operations, negotiation of lease agreements, marketing campaigns, and governmental regulations. Guest speakers and case studies included.

CRP 5370 Real Estate Seminar Series

Fall and spring. 0.5 credit each semester.

Prerequisite: M.P.S./R.E. students. S-U grades only. D. Funk.

Designed to bring students weekly into direct contact with real-estate professionals mainly through the use of videoconferences originating from locations around the world.

CRP 5440 Resource Management and Environmental Law (also CRP/NTRES 4440)

Spring. 4 credits. R. Booth.

For description, see CRP 4440.

CRP 5460 Introduction to Community and Environmental Dispute Resolution

Fall. 3 credits. J. Forester.

Explores the theories and techniques of dispute resolution as they apply to community, environmental, and related public-policy disputes. Analysis complements skill-building. Issues of power, participation, and strategy are central to our examinations of negotiation and mediation practice.

CRP 5480 Social Policy and Social Welfare (also CRP 4480)

Spring. 4 credits. Not offered every year. S. Christopherson.

For description, see CRP 4480.

[CRP 5510 Environmental Law (also CRP 4510)]

CRP 5520 Land-Use Planning

Fall. 3 credits. R. Pendall.

Covers surveys, analyses, and plan-making techniques for guiding physical development of urban areas, location requirements, space needs, and interrelations of land uses. Emphasizes residential, commercial, and industrial activities and community facilities, and housing and neighborhood conditions. Lectures, seminars, and field exercises.

CRP 5530 Land-Use Regulations

Spring. 3 credits. R. Pendall.

This seminar covers the essentials of "smart growth," zoning, and subdivision, and the main tools for implementing a land-use plan. Also covers agriculture and open-space preservation, infrastructure-timing controls, redevelopment, and planned-unit development.

CRP 5540 Introduction to Environmental Planning (also CRP 3540)

Fall. 3 credits. S. Schmidt.

For description, see CRP 3540.

CRP 5560 Design in Real Estate Development

Spring. 3 credits. S-U or letter grades. H. Richardson.

Provides a basic understanding of the importance of design in real estate development. The role of the architect and other design professionals is considered from the initial needs assessment through project implementation. Fundamentals involved in defining, stimulating, and recognizing quality in design are addressed. The analysis of case-study presentations by guest speakers examine the methods and procedures employed to achieve quality design and how this can create added value to development.

CRP 5590 Legal Aspects of Land Use Planning (also CRP 4590)

Spring. 4 credits. R. Booth.

For description, see CRP 4590.

CRP 5600 Documentation for Preservation

Fall. 3 credits. M. Tomlan.

Methods of identifying, recording, collecting, processing, and analyzing information dealing with historic and architecturally significant structures, sites, and objects.

CRP 5620 Perspectives on Preservation

Fall. 3 credits. J. Chusid.

Introductory course for preservationists. A survey of the historical development of preservation activity in Europe and America leading to a contemporary comparative overview. Field trips to notable sites and districts.

CRP 5630 Problems in Contemporary Preservation Practice

Spring. Variable credit. J. Chusid. Review and critique of ongoing preservation projects and an investigation of areas of expertise currently being developed. Presented by staff and guest lecturers.

CRP 5640 Building Materials Conservation

Spring, 3 credits. Prerequisite: junior, senior, or graduate standing. J. Chusid. Survey of the development of building materials in the United States, chiefly during the 19th and early 20th centuries, and a review of the measures that might be taken to conserve them.

CRP 5650 Fieldwork or Workshop in History and Preservation

Fall or spring. Variable credit. Staff. Work on applied problems in history and preservation planning in a field or laboratory setting or both.

CRP 5660 Planning and Preservation Practice

Fall, 1 credit. Prerequisite: graduate standing in CRP programs or M.P.S./R.E. or permission of instructors. S-U grades only. R. Pendall and M. Tomlan. Students participate in field study of city planning, historic preservation, economic and community development, and real estate issues in large Eastern U.S. cities.

CRP 5670 Measured Drawing

Spring, 3 credits. Prerequisite: undergraduate architecture students and graduate students in history and preservation. J. Chusid. Combines study of architectural drawing as historical documents with exercises in preparing measured drawings of small buildings. Presents the basic techniques of studying, sketching, and measuring a building and the preparation of a finished drawing for publication.

CRP 5780 Recycling and Resource Management (also CRP 3780)

Spring, 3 credits. S-U or letter grades. Staff.

For description, see CRP 3780.

[CRP 5810 Principles of Spatial Design and Aesthetics (also CRP 3810)]**CRP 5840 Green Cities (also CRP 3840, LA 4950)**

Fall, 4 credits. S-U or letter grades. Not offered every year. S. Schmidt.

For description, see CRP 3840.

CRP 5850 Sustainable Panama: An Interdisciplinary Workshop Course on the Future of the Panama Canal Metropolitan Landscape

Winter, 4 credits. R. Trancik.

For description, see Lorie Walker in 106 W. Sibley Hall.

CRP 6011 Ethics, Development, and Globalization (also CRP 3011)

Fall or spring, 4 credits. Staff.

For description, see CRP 3011.

CRP 6050 Urban Public Finance

Fall, 4 credits. Prerequisite: exposure to microeconomics. Not offered every year. Staff.

Overview of neoclassical public-economics theory, particularly those aspects of the theory that are central to urban public finance. The unusual three-tiered fiscal system of the United States is described along with the evolving fiscal and economic role of large municipal governments. Also presented is the public-finance theory of taxation. Major taxes and other revenue sources used by large municipalities are described and analyzed. The heart of the matter is the measurement and analysis of the fiscal condition of cities.

CRP 6070 GIS Applications Workshop

Fall, 4 credits. Prerequisites: introductory GIS course or permission of instructor. Staff.

Advanced GIS course that focuses on GIS applications and projects for one or more clients. During some semesters students work on their own projects. Contact the instructor directly to learn about project options for the current semester.

CRP 6101 Race, Space, and Place (also CRP 3101)

Fall or spring, 3 credits. C. Lai. For description, see CRP 3101.

CRP 6102 Asian American Politics and Public Policy (also CRP 3102)

Fall or spring, 3 credits. C. Lai. For description, see CRP 3102.

CRP 6105 (also CRP 3105) Urban Political Economy Seminar

Fall or spring, 3 credits. Staff. For description, see CRP 3105.

CRP 6120 Devolution, Privatization, and the New Public Management (also CRP 4120, AEM 4330/6330, FGSS 4110/6110)

Fall, 4 credits. Prerequisite: ECON 1110 or equivalent. S-U or letter grades. Offered every other year. M. Warner.

For description, see CRP 4120.

[CRP 6140 Gender and International Development (also FGSS 6140)]**CRP 6150 Current Issues and Debates on NGOs**

Fall, 3 credits. Prerequisite: graduate standing or permission of instructor. S-U or letter grades. N. Kudva.

This seminar examines a range of topics that are key to understanding NGO actions: their effectiveness at service provision and advocacy; their political role in constructing social capital and strengthening civil society; their relationship with the state and with donor agencies; and issues related to organizational design for success. The intention is to gain a broad-based understanding of the role and development of NGOs. The emphasis throughout will be to critically evaluate the literature, research, and accounts on NGOs as both institutional actors in the development arena and as bounded organizations at the local level: a task that is complicated by the heterogeneity of contexts and organizational types.

CRP 6210 Quantitative Techniques for Policy Analysis and Program Management

Spring, 4 credits. D. Lewis.

Examines selected analytical techniques used in the planning and evaluation of public policy and public investments. Topics include simulation modeling, benefit-cost and cost-effectiveness analysis (including capital budgeting), and optimization strategies.

CRP 6270 Regional Economical Impact Analysis (also CRP 3270)

Fall, 3 credits. Letter grades. Staff. For description, see CRP 3270.

CRP 6320 Methods of Regional Science and Planning I

Spring, 4 credits, variable. Staff. Introduction to some of the major methods and models used in regional science and planning. Topics related to the structure and assumptions of the models, model development, and their applications in regional science and planning are discussed. Where appropriate, computer implementation emphasizing statistical, econometric models is considered.

CRP 6350 Workshop: State Economic Development Strategies

Fall or spring, 4 credits. S-U or letter grades. S. Christopherson.

The purpose of this workshop is twofold: (1) to provide students with research tools useful in developing state-level economic-development strategies; and (2) to provide a critical understanding of the primary economic-development strategy used by U.S. state policymakers: firm-specific subsidies. The course consists of lecture and discussion meetings. The workshop sessions include exercises in qualitative information gathering on economic-development topics; use of the census in combination with geographic information systems for analysis and presentation; and shift-share analysis.

[CRP 6370 Regional Development Planning: An International Perspective]**[CRP 6380 Planning and the Global Knowledge Economy: Sustainability Issues]****CRP 6411 Growing Up In Cities (also CRP 3411)**

Fall or spring, 4 credits. Staff. For description, see CRP 3411.

CRP 6420 The Micro-Politics of Participatory Planning Practices

Spring, 4 credits, variable. J. Forester. This seminar explores issues of "practice" (rhetoric and negotiation, interpretation and judgment, narrative and recognition) as they influence democratic deliberations involving questions of ethics and argument, participation and identity, historical trauma and working-through, and more. The approach taken can be called a "critical pragmatism." Practitioners' oral histories are used to investigate the challenges of participatory planning practices.

CRP 6430 Affordable Housing Policy and Programs (also CRP 3430)

Fall, 3 credits. S-U or letter grades. R. Pendall.

For description, see CRP 3430.

CRP 6502 (also CRP 3502) Suburbia

Fall or spring, 3 credits. Staff. For description, see CRP 3502.

CRP 6503 Comparative Land Use Policy

Fall or spring. 3 credits. Staff. Graduate seminar in which students conduct guided, often collaborative, research on contemporary land-use planning and policy issues in comparative international perspective. Topics may include sustainable development, conservation, revitalization of urban cores, and land use-transportation connections, among others.

CRP 6504 Comparative Urban Development (also CRP 3504)

Fall or spring. 3 credits. Staff. For description, see CRP 3504.

CRP 6506 Planning Seminar (also CRP 3506)

Fall or spring. 3 credits. Staff. For description, see CRP 3506.

CRP 6560 Real Estate Transactions and Deal Structuring (also LAW 6792)

Spring. 3 credits. S-U or letter grades. D. Funk. Real estate transactions and deal structuring examines real estate deals through a practitioner perspective within a case study and transactional approach. The course looks at the transactional components and structuring of real estate deals and related parties at each step in creating value from real estate, including acquisition and assemblage; due diligence; sourcing and financing; structuring the venture/parties; operation; disposition; and tax consequences. Additional issues within deal structuring that may be included are negotiation, managing risk including litigation and environmental issues, analysis of financing techniques, and consequences when deals go bad, including work out and bankruptcy. The case study format will address deals from the perspectives of investment fund manager, banker/lender, developer, REIT, joint venture partner/investor, and owner.

CRP 6570 Real Estate Law

Spring. 3 credits. Letter grades. A. Klausner.

Examination of major legal concepts pertaining to acquisition, use, management, and transfer of real estate. Particular focus is on important legal considerations pertaining to property rights, contracts, and public controls on the use of land. Consideration of important case law, statutory law, and rules and regulations. Current legal issues affecting the real estate industry are discussed.

CRP 6580 Residential Development

Spring. 4 credits. Letter grades. Fee for mandatory field trip. B. Olson. Explores the residential-development process from site acquisition through delivery of the finished product. Topics include market feasibility, land planning and acquisition, product selection and design considerations, project financing and feasibility, schedule and budgetary controls, contracting and construction issues, marketing, and sales activities. Current issues in providing competitive housing products in today's markets are also explored. Composition of the residential-development project team is discussed. Classes are supplemented by presentations from visiting professionals. The course includes a semester-long project based on an actual property and market opportunity.

CRP 6601 Museum and the Public Sphere (also CRP 3601)

Fall or spring. 3 credits. Staff. For description, see CRP 3601.

CRP 6610 Seminar in American Urban History (also CRP 3610)

Fall or spring. 3 credits. Prerequisite: permission of instructor. M. Tomlan. For description, see CRP 3610.

CRP 6630 Historic Preservation Law

Spring. 3 credits. Offered alternate years. Staff.

Covers law of historic district and landmark designation; tools for preservation (e.g., police power, taxation, eminent domain); and recent developments in state and federal historic preservation.

CRP 6640 Economics and Financing of Neighborhood Conservation and Preservation

Spring. 3 credits. Offered every other year. Staff.

The economic and financial aspects of historic preservation and neighborhood conservation. Topics include public finance, selected issues in urban economics, real estate economics, and private financing of real estate projects.

CRP 6650 Preservation Planning and Urban Change

Fall. 3 credits. M. Tomlan.

Examination of fundamental planning concepts and issues as they relate to historic preservation. Neighborhood revitalization, federal housing programs, the role of public and private institutions, displacement, and other social issues are among the primary topics.

[CRP 6660 Pre-Industrial Cities and Towns of North America (also CRP 3600, LA 2600/6600)]**CRP 6680 The History of Urban Form in America (also CRP 3680)**

Fall or spring. 3 credits. M. Tomlan. For description, see CRP 3860.

CRP 6700 Regional Planning and Development in Developing Nations

Fall or spring. 4 credits. Prerequisite: second-year graduate standing. Staff. Extensive case studies of development planning are analyzed. Focus is on the political economy of the process of regional development through urbanization and in particular on the concepts of equity and efficiency, external economies, export linkages, and internal self-sufficiency and integration. Resource development, national integration, human development, and migration problems are discussed.

CRP 6710 Seminar in International Planning

Spring. 1 credit. S-U grades only. W. Goldsmith.

The international planning lecture series sponsors lectures by visiting scholars or professionals in the field of international development and planning. The only formal requirement for the course is a brief evaluation of the series at the end of the semester.

CRP 6720 International Institutions

Fall. 3 credits. L. Benería. Focuses on the growth and transformation of international institutions since World War II. The first part includes a discussion of the

Bretton Woods institutions and of the U.N. system up to the early 1970s, and how these function and have evolved over time. The second part examines some of the crises and tensions within the international system since the 1980s and how these have affected institutional change and current debates on reform and global governance.

CRP 6740 Urban Transformations in the Global South (also CRP 4740)

Fall or spring. 4 credits. S-U or letter grades. Staff.

For description, see CRP 4740.

CRP 6750 Workshop on Project Planning in Developing Countries

Fall. 4 credits. D. Lewis.

Examines the problems and issues involved in preparing project proposals for presentation to funding agencies. Topics include technical design, financial feasibility, social-impact analysis, and policy relevance, as well as techniques for effective presentation of proposals. The course is organized as a seminar-workshop providing both an analysis of the critical elements of effective proposals and an opportunity to use those elements in the preparation of proposals. A multidisciplinary perspective is emphasized.

CRP 6760 Latin American Cities (also CRP 3760)

Fall. 3 credits. A. Sanchez. For description, see CRP 3760.

CRP 6770 Issues in African Development (also CRP 4770)

Fall or spring. 1 credit. S-U grades only. M. Ndulo. For description, see CRP 4770.

CRP 6830 Environmental Aspects of International Urban Planning (also CRP 4530)

Fall. 4 credits. Staff. For description, see CRP 4530.

CRP 6860 Planning for Sustainable Transportation (also CRP 3860)

Spring. 3 credits. S-U or letter grades. Staff.

For description, see CRP 3860.

CRP 6870 The City in Brazil (also CRP 3770)

Summer. 3 credits. Letter grades optional. W. Goldsmith.

For description, see CRP 3770.

CRP 6890 Strategic Conservation Planning Workshop

Fall. 4 credits. Graduate workshop open to juniors and seniors. Staff.

Planners, natural resource specialists, and landscape architects are frequently called upon to create and implement land conservation plans. This interdisciplinary workshop course seeks to train the next generation of professionals in the theoretical frameworks, methods and techniques for undertaking regional land conservation planning efforts. As these planning efforts are highly individualized and technical, an applied approach will be taken with students working on an actual regional conservation plan for a client. The course links planning principles with the on-the-ground application of GIS technology, demographic analysis, land use planning, greenways development, and regulatory controls. The class will address the role of land conservation in

communities facing social equity issues, wrestle with the complexities of public involvement in a planning process and debate the merit of voluntary programs vs. regulatory approaches to land conservation.

CRP 7850 Professional Planning Colloquium I (also CRP 3900)

Fall. 1 credit. Staff.
For description, see CRP 3900.

CRP 7940 Planning Internships

Fall, spring, or summer. 12 credits, variable. Staff.

Combines a professional planning internship in a metropolitan area with academic study to provide experience and understanding of the planner's role in formulating and implementing plans and policies. Salaried internships in federal or state agencies, legislative offices, and comparable settings include development of research, analysis, and other technical skills. Weekly seminars draw on student field experiences, assigned readings, and guest speakers to examine current issues of federal, urban, and regional policy from the perspective of planning practice.

CRP 7960 Professional Writing and Publishing (Colloquium)

Fall or spring. 2 credits. S-U grades only.
Not offered every year. Staff.

Individual and group projects culminating in the production of a professional journal.

CRP 7970 Graduate Independent Study

Fall or spring. 4 credits, variable.
Prerequisites: graduate student standing, permission of instructor. Staff.

For description, see department coordinator, 106 West Sibley Hall.

CRP 8000 Advanced Seminar in Urban and Regional Theory I

Fall. 3 credits. S. Christopherson.
Introduction to key conceptual and empirical literature in urban theory. Focuses on the relationship between political and economic processes and their joint influence on urban spatial form.

[CRP 8010 Advanced Seminar in Urban and Regional Theory II]

[CRP 8100 Advanced Planning Theory]

CRP 8300 Seminar in Regional Science, Planning, and Policy Analysis

Fall or spring. 4 credits, variable. S-U grades only. Staff.

Provides an opportunity to review some of the literature and current research in regional science, planning, and policy analysis. Specific topics covered vary each year. Empirical and analytical research are emphasized. Students are expected to prepare and present a research paper during the semester on some aspect of the topics under review.

CRP 8900 Planning Research Seminar I

Fall or spring. 2 credits. Staff.
Intended for doctoral candidates in city and regional planning; other students welcome. Presentation and discussion of current problem areas and research by advanced doctoral students, faculty members, and visitors.

CRP 8910 Master's Thesis in Regional Science

Fall or spring. 12 credits, variable. S-U or letter grades. Hours TBA. Regional Science faculty. Staff.

CRP 8920 Master's Thesis, Project, or Research Paper

Fall or spring. 10 credits, variable. S-U or letter grades. Staff.

CRP 8950 Master's Thesis in Preservation Planning

Fall or spring. 6 credits, variable. Staff.

CRP 9920 Doctoral Dissertation

Fall or spring. 2 credits, variable. Staff.

Special Topic Courses

Fall or spring. Variable credit. Staff.
Typical topics are:

CRP 6090 Urban and Regional Theory

CRP 6190 Planning Theory and Politics

CRP 6290 Quantitative Methods and Analysis

CRP 6390 Regional Development Planning

CRP 6490 Social-Policy Planning

CRP 6590 Urban Development Planning

CRP 6690 History and Preservation

CRP 6790 Planning and Developing Regions

CRP 6890 Environmental Planning

CRP 6990 Regional Science

CRP 7190 Planning Theory and Politics

(LAAB) of the American Society of Landscape Architects.

Dual-Degree Options

Graduate students can earn a master of landscape architecture and a master of science (horticulture) or a master of city and regional planning simultaneously. Students need to be accepted into both fields of study to engage in a dual-degree program and must fulfill requirements of both fields of study. Thesis requirements are generally integrated for dual degrees.

Course Information

Note: All of the following courses are offered through the College of Agriculture and Life Sciences except LANAR 4970, 5240, and 5250.

LA 1410 Grounding in Landscape Architecture

Fall. 4 credits.

LA 1420 Grounding in Landscape Architecture

Spring. 4 credits.

LA 2010 Medium of the Landscape

Fall. 5 credits.

LA 2020 Medium of the Landscape

Spring. 5 credits.

[LA 2150 Writing Seminar: Engaging Places]

Fall. 4 credits.]

LA 2520 Daily Life in Ancient Israel

Spring. 3 credits.

LA 2610 Fieldwork in Urban Archaeology (also CRP 2610)

Fall. 4 credits.

LA 2620 Laboratory in Landscape Archaeology (also ARKEO 2620)

Spring. 3 credits.

[LA 2660 Jerusalem through the Ages]

Fall. 3 credits.]

LA 2820 Photography and the American Landscape

Fall. 3 credits.

LA 3010 Integrating Theory and Practice I

Fall. 5 credits.

LA 3020 Integrating Theory and Practice

Fall. 5 credits.

LA 3160 Site Engineering II

Fall. 2 credits.

LA 3180 Site Construction

Spring. 5 credits.

LA 3600 Pre-Industrial Cities and Towns of North America (also CRP 3600/6660, LA 6660)

Spring. 3 credits.

LA 4010 Advanced Synthesis: Project Design

Fall. 5 credits.

LA 4020 Integrating Theory and Practice II

Spring. 5 credits.

LA 4030 Directed Study: The Concentration (also LA 6030)

Fall or spring. 1 credit.

LA 4100 Computer Applications in Landscape Architecture

Fall or spring. 3 credits.

LA 4120 Professional Practice

Spring. 1 credit.

LA 4180/7900 Audio Documentary: History/Stories from the Land

Spring. 3 credits.

LA 4810 Creating the Urban Eden: Woody Plant Selection, Design, and Landscape Establishment (also HORT 4910)

Fall. 4 credits.

[LA 4830 Seminar in Landscape Studies

Next offered 2010-2011.]

LA 4860/7910 Placemaking by Design: Theory Seminar

Fall. 3 credits.

LA 4920 Creating the Urban Eden: Woody Plant Selection, Design, and Landscape Establishment

Spring. 4 credits.

LA 4940 Special Topics in Landscape Architecture

Fall or spring. 1-3 credits.

LA 4950 Green Cities (also CRP 3840/5840)

Fall. 4 credits.

LANAR 4970 Individual Study in Landscape Architecture

Spring. 1-5 credits; may be repeated for credit. S-U or letter grades. L. J. Mirin.

Work on special topics by individuals or small groups.

LA 4980 Undergraduate Teaching

Fall or spring. 1-2 credits.

LA 4990 Undergraduate Research

Fall or spring. 1-5 credits.

LA 5010 Composition and Theory

Fall. 5 credits.

LA 5020 Composition and Theory

Spring. 5 credits.

LA 5050 Graphic Communication I

Fall. 3 credits.

LA 5060 Graphic Communication II

Spring. 3 credits.

LANAR 5240 History of European Landscape Architecture

Fall. 3 credits. L. Mirin.

Survey from classical times to the present, emphasizing design principles and techniques that have established the landscape architecture tradition in Europe. Particular reference is made to the manner in which gardens, streets, plazas, parks, and new towns reflect in their built form, a range of responses to demands of culture, economics, technology, security, the law, and ecology.

LANAR 5250 History of American Landscape Architecture

Spring. 3 credits. L. Mirin.

Landscape architecture in the United States from Jefferson to the present is examined as a unique expression of the American experience. Influences exerted by the physical landscape, the frontier and utopian spirit, and the cultural assumptions of democracy and capitalism are traced as they affect the forms of urban parks, private and corporate estates, public housing,

transportation planning, national parks, and other open-space designs.

LA 5450 The Parks and Fora of Imperial Rome

Spring. 3 credits.

LA 5820 Photography and the American Landscape Architecture

Fall. 3 credits.

LA 5900 Theoretical Foundations

Fall. 3 credits.

LA 5980 Graduate Teaching

Fall or spring. 1-2 credits.

LA 6010 Integrating Theory and Practice I

Fall. 5 credits. Prerequisite: graduate standing.

LA 6020 Integrating Theory and Practice II

Spring. 5 credits. Prerequisite: graduate standing.

LA 6030 Directed Study: The Concentration (also LA 4030)

Fall or spring. 1 credit.

LA 6160 Site Engineering

Fall. 2 credits.

LA 6180 Site Construction

Spring, weeks 8-15. 5 credits.

[LA 6660 Pre-Industrial Cities and Towns of North America (also CRP 3600/6660, LA 2600)

Next offered 2010-2011.]

LA 6900 Methods of Landscape Architectural Inquiry

Fall or spring. 1-3 credits.

LA 6940 Special Topics in Landscape Architecture

Fall or spring. 1-3 credits.

LA 7010 Urban Design and Planning: Designing Cities in the Electronic Age (also CRP 5550)

Fall. 5 credits.

LA 7020 Advanced Design Studio

Spring. 5 credits.

LA 7920 Landscape Preservation: Theory and Practice

Fall. 3 credits.

LA 8000 Master's Thesis in Landscape Architecture

Fall or spring. 9 credits.

FACULTY ROSTER

Ashkin, Michael, M.F.A., The School of the Art Inst. of Chicago. Asst. Prof., Art
 Azis, Iwan, Ph.D., Cornell U. Visiting Prof., City and Regional Planning.
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 Benería, Lourdes, Ph.D., Columbia U. Prof., City and Regional Planning.
 Bertoia, Roberto, M.F.A., Southern Illinois U. Assoc. Prof., Art
 Blum, Zevi, B. Arch., Cornell U. Prof. Emeritus, Art
 Booth, Richard S., J.D., George Washington U. Prof., City and Regional Planning.
 Bowman, Stanley J., M.F.A., U. of New Mexico. Prof. Emeritus, Art

Chen, Xiaowen, M.F.A., Illinois State U.

Visiting Assoc. Prof., Art

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Zissovici, John, M. Arch., Cornell U. Assoc. Prof., Architecture