

## COLLEGE OF ARCHITECTURE, ART, AND PLANNING

### ADMINISTRATION

Kent Kleinman, dean

Barry Perlus, associate dean

Peter Turner, assistant dean of administration and finance

to be announced, chair, Department of Architecture

Patricia C. Phillips, chair, Department of Art

Kieran Donaghy, chair, Department of City and Regional Planning

Deborah Durnam, director, admissions

Michael Moyer, director, alumni affairs and development

M. Susan Lewis, director, career services

Melanie Holland Bell, 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, as well as space at 531 Esty Street in downtown Ithaca. Facilities for architecture and city and regional planning, as well as college administrative offices, 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, Sibley, and at Esty Street. 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 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. Educating students in Italy for 20 years, the program has provided a transformative experience for young, developing artists, architects, urbanists, and scholars. The program is open to students in and outside Cornell in the disciplines of architecture, visual art, and urban studies, as well as related fields like art history, classics, European studies, medieval studies, and sociology.

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 world capital, a semester in Rome has proven to be a pivotal semester for both intellectual and personal growth. The program provides extensive studio work, onsite classes, and a rich field trip itinerary.

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

Cornell in Rome's resident faculty members, chosen from the best local and internationally known scholars, critics, architects, and artists, are all expert at using the city as an unparalleled resource for instruction and inspiration. Additionally, distinguished Cornell professors from the Departments of Architecture, Art, and City and Regional Planning live and teach in Rome for the entire term.

The program is based at Palazzo Lazzaroni, a handsomely restored 17th-century palazzo in the historic center of Rome. All participants are housed in large, completely furnished apartments with wireless Internet access, all within walking distance of studio and classroom space. Students enjoy daily contact with the urban life of a major, European city and its nearly 3,000 years of history and extraordinary backdrop of art and architecture.

Application is made in the academic year before participation. The deadline for both fall and spring semesters is November 1 for AAP students and January 15 for all out-of-college applicants. Accepted students must confirm their enrollment by February 15. Detailed course and program information may be found at [www.rome.cornell.edu](http://www.rome.cornell.edu). Students are also welcome to stop by the Cornell in Rome office at 149 East Sibley Hall.

### AAP NYC

The College of Architecture, Art, and Planning's rapidly expanding 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, while gaining valuable professional experience at design firms, studios, and innovative public, private, and nonprofit organizations throughout the city. Located on 17th Street near Union Square, in the vibrant Chelsea neighborhood of Manhattan, AAP NYC's loft provides expansive studio and seminar space for short-term and semester-long use by the entire college. The location is an ideal base for the study of urban and social policy, for museum and gallery visits, or for exposure to a wealth of art and architectural history and practice.

AAP NYC offers a full roster of courses enriched by New York City's unique artistic, historical, and cultural resources and by AAP's extensive alumni network of noted metropolitan professionals, who frequently teach and serve as guest critics and mentors. The programming expands opportunities for AAP's undergraduates, allowing them to now take advantage of study in two world capitals—New York City and Rome—while easily meeting graduation requirements.

Application is made in the academic year prior to participation. The deadline is November 1 for AAP students and January 15 for all out-of-college applicants. Detailed program information can be found at [www.aap.cornell.edu/aap/nyc](http://www.aap.cornell.edu/aap/nyc).

## 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 academic credit hours with a minimum grade point average for the semester of 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 does not meet 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 registrar, B1 W. 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 October 1 and requests for fall-semester return must be made by March 1. 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. **Voluntary leaves of absence for personal reasons** may be granted for a variety of reasons. The student may request a voluntary 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 student may not attend classes at Cornell through the School of Continuing Education and Summer Sessions. The term limit 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. **Voluntary leaves of absence with conditions** may be granted for students desiring to take a voluntary leave for personal reasons 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 12th 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 may not attend classes at Cornell through the School of Continuing Education and Summer Sessions. 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 health 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 may not attend classes at Cornell through the School of Continuing Education and Summer Sessions. 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 a minimum of 12 academic credits with a minimum GPA of 2.3 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 may not attend classes at Cornell through the School of Continuing Education and Summer Sessions. The student's academic status is subject to review at the time of the leave and upon the student's return.

### Return from Leave of Absence

Students who desire to return from any of these leaves shall submit a written request to the AAP Registrar's Office. Requests for spring-semester return must be made by October 1 and requests for fall-semester return must be made by March 1. 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 ARC within two weeks of receipt of the department decision. The final decision then rests with the ARC. 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 April 15 for requests to return to study in the fall term and by November 15 for requests to study in the spring term.

## ARCHITECTURE

to be determined, interim chair (137 East Sibley Hall, 255-5236); L. Chi, M. Cruvellier, 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

### Department of Architecture Program Mission

If one could identify a singular philosophy for the architecture program at Cornell, it would be that architecture is a conceptual problem-solving discipline. The goal of the program is to produce conceptual thinkers, versed in the skills, history, theory, and science of their field. In part, the success of the program can be attributed to the quality of students and faculty members combined with their dedication and enthusiasm. Companion undergraduate and graduate programs in the fine arts and in city and regional planning have also greatly contributed to the department's strength. The influence of these programs has created a philosophy that is unique to Cornell: that the individual work of architecture is thought of as part of a greater whole and exists in a determinate physical context. Furthermore, the students and their work are also placed in a historical context, creating a sense of the continuity of architectural thought.

The intention has always been to instruct architecture students in issues of basic and more sophisticated formal principles, developing an aptitude for functional and programmatic accommodation, structural and technological integration, energy-conscious design, and materials and methods of construction. Virtually every architecture school does this. Cornell, however, differs from most schools in the way it teaches students about architecture: we do not teach architecture; instead we try to teach students how to learn about architecture (witness, for example, the inordinate number of Cornell alumni teaching in architecture programs). Rather than train architects who think of buildings as autonomous objects frozen in an assigned ideology, our goal is to produce architects who are capable of making independent judgments rooted in an ever-changing context of architectural thought.

To affect these goals, design at Cornell is taught as an intellectual discipline steeped in societal and cultural values. Architecture is taught as the integration of thought, form, and structure. Design problems frequently are located within real physical contexts and are evaluated in relation to those motivations that shaped the environment over time. Architecture, it is assumed, resides in the integration of idea and fact.

The development of form and space is critical to architectural design. Equally significant is the responsible resolution of functional requirements integrated with actual and perceived structure. The excellence of architectural art, however, derives from the exploration and refinement of ideas, upon which form, purpose, and structure are dependent. Deemed essential at Cornell is that the student grapple not only with fact, but with the substance of fact. Consequently,

the investigation of architectural content is pursued in protracted and continuous study. Architecture studios extend into the classroom and the library; they embrace the humanities and sciences, tradition and innovative effort.

## Professional Degree Programs

### 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.

Doctor of Architecture and Master of Architecture 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.

Cornell University, College of Architecture, Art, and Planning, Department of Architecture offers a NAAB-accredited bachelor of architecture degree program.

B. Arch. (176 undergraduate credits)

Next accreditation visit for the B.Arch. program: 2010

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. In order to meet the education requirement set forth by the National Council of Architectural Registration Boards, an applicant for an NCARB Certificate must hold a professional degree in architecture from a program accredited by the NAAB; the degree must have been awarded not more than two years prior to initial accreditation.

Cornell University, College of Architecture, Art, and Planning, Department of Architecture was granted candidacy status for the Professional Master of Architecture in 2004.

M.Arch I (pre-professional degree + 115 graduate credits)

Continuation of candidacy granted: 2007

Projected year of initial accreditation: 2010

### Bachelor of Architecture

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.

**Professional Master of Architecture (M. Arch. I)**

Cornell's graduate professional degree program (in NAAB candidacy status) is a 3½ -year course of study dedicated to preparing graduate students from diverse disciplines and backgrounds for careers in architecture. The program builds on the excellence and distinction of Cornell's renowned B.Arch. degree, but is specifically crafted to engage the unique strengths and needs of the graduate student. Committed to the view that the question of appropriate practice must be continually investigated and reassessed in today's globally expansive and technologically dynamic context, the program places this concern at the center of the learning process, seeking to empower the student's sense of inquiry, responsibility, and creativity. Teaching in the program complements basic skills and knowledge essential to the profession with engagement in emergent social, cultural, technical, and environmental concerns that characterize architecture's expanded field in the 21st century.

The curriculum comprises a rich offering of courses in visual representation, history and theory of architecture, building technology, and professional practice, complemented by six semesters of design studios. The design studio is the core of the curriculum, with the design project serving as a negotiating platform between diverse practices, technologies, and fields of knowledge. The intensive course of study encourages the development of individual research trajectories at the upper levels, and culminates in a one-semester design thesis. Making full use of Cornell University's excellent resources across all disciplines, the professional Master of Architecture situates itself globally, drawing upon distinguished national and international visitors as well as the AAP in New York City studio. The professional Master of Architecture is open to applicants possessing a four-year bachelor's degree in any area.

**Cornell in Rome**

Cornell in Rome has been an integral part of architectural study at Cornell University for 20 years. Architecture students traditionally look forward to this semester abroad for first-hand experience of buildings and urban spaces previously studied only in classes and lectures. Rome, with its unparalleled complexity of historical layers, presents the student of architecture with the challenge of visualizing architecture in a city where the intensity of history pervades.

The city teaches students to understand that history can become a critical foundation for understanding architectural design as an integral component of the urban context. Complete immersion in this distinctive and complex milieu presents students with new and different problems and decisions; through analysis and understanding of historic examples, experience and insight are gained for future design challenges.

Design studios, complemented by visits to important buildings, museums, and monuments both in Rome and throughout Italy, emphasize onsite observation, measuring, drawing, and projection, while history courses and theory seminars encourage students to engage in analytical thinking, direct study, and cultural interpretation.

Italian and European architects and educators complement faculty members from Cornell in teaching the 6-credit studio and assist in formulating and contributing to a rich variety of seminars, lectures, and field trip programs.

**Architecture Requirements**

Fourth-year architecture students in good academic standing who have completed the requirements of the first three years of the five-year B.Arch curriculum are eligible for participation in Cornell in Rome.

The program also is open to third-year students by petition, if space permits.

**AAP in NYC**

AAP NYC provides the opportunity for architecture students to study, work, and live in one of the world's most dynamic urban contexts. With its pivotal location, the architecture program at AAP NYC attracts guest faculty members not only from the city but from international locales as well. The program allows students to build on the core curricular foundations of their Ithaca-campus experience in a more directly applied format, using the city as a classroom and world-class professionals as their critics and faculty.

Additionally, undergraduate students are encouraged to take advantage of the wealth of architectural practices in New York by working two days per week in selected offices while pursuing their studies. As a result, AAP NYC serves as a bridge from school to the profession—one that allows students to consider their own future trajectories and the possible paths toward achieving them.

**B.Arch. Curriculum**

Please refer to the *AAP Student Handbook* at [www.aap.cornell.edu/aap/student-services/](http://www.aap.cornell.edu/aap/student-services/) for the most up-to-date B. Arch. curriculum information.

**First Year**

<i>Fall Semester</i>	<i>Credits</i>
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
	<hr/> 18-19

*Spring Semester*

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
	<hr/> 17-18

**Second Year**

<i>Fall Semester</i>	<i>Credits</i>
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
	<hr/> 17-18

*Spring Semester*

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
	<hr/> 16-17

**Third Year**

<i>Fall Semester</i>	<i>Credits</i>
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
	<hr/> 18

*Spring Semester*

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
	<hr/> 18

**Fourth Year**

<i>Fall Semester</i>	<i>Credits</i>
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

**Fifth Year**

<i>Fall Semester</i>	<i>Credits</i>
5101 Design IX	6
Departmental elective	3
ARCH 5110 Thesis Proseminar	2
Out-of-college elective	3
Out-of-college elective	3
	17

<i>Spring Semester</i>	
5901 Design X	8
Departmental elective	3
Out-of-college elective	3
College or out-of-college elective	3
	17

**Required Departmental Courses**

<i>Semesters</i>	<i>Subject</i>	<i>Course Numbers</i>	<i>Credits</i>
10	design	1101-5902	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
1	proseminar	5110	2
3	drawing	1501, 1502, 2503	6
			109-110

**Electives**

<i>Departmental Semesters</i>		<i>Credits</i>
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

<i>College Semesters</i>		<i>Credits</i>
2	art: any studio courses (ART 2104 will fulfill)	6

<i>Out-of-College Semesters</i>		<i>Credits</i>
1	first-year writing seminar	3
1	mathematics, or physical or biological sciences	3
1	humanities	3
		9

<i>Free</i>		<i>Credits</i>
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.		
Total credits		176

**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.
  - 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 B. Arch. 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.*

A student wishing to receive this degree must submit a petition to the Petition Committee, verified by the college registrar, that the first eight semesters of required B.Arch. courses can be satisfactorily completed and that the following minimum distribution requirements will be met:

- 1 Art studio course (3 credits)
- 1 Mathematics course: MATH 1110, 1106, or approved equivalent (3-4 credits)
- 1 First-Year Writing Seminar (3 credits)
- 1 Mathematics or physical or biological sciences course (3 credits)
- 1 Humanities course (3 credits)

Students are admitted to this degree program only via the B.Arch. degree track. Students who are awarded a B.F.A. in Architecture degree may not reregister in the B.Arch. program.

**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 5902, 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-level students considering a professional education in architecture.

**Minor in Architecture for Nonmajors**

A special minor 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 Minor 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 minor should complete a minor form, which is available in the architecture department office. This form, when validated by the architecture department, serves as evidence of completion of the minor requirements.

The curriculum for students in the Minor 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 (in NAAB candidacy status)**

**Mission Statement**

Consistent with the broader mission of the Department of Architecture, the Master of Architecture program (in NAAB candidacy status) 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 and Analytical Drawing	3
ARCH 5301	Theories and Analyses of Architecture I	3
ARCH 5603	Structural Concepts	4
ARCH 5801	History of Architecture I	3
		<hr/> 19
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
		<hr/> 18

<b>Term Three</b>	
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
	<hr/> 18
<b>Term Four</b>	
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
	<hr/> 18
<b>Term Five</b>	
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
	<hr/> 15
<b>Term Six</b>	
ARCH 5116 Vertical Design Studio	6
Visual Representation Elective	3
Open Elective	3
History or Theory or Visual Representation Elective*	3
	<hr/> 15
<b>Term Seven</b>	
ARCH 8912 Independent Design Thesis	9
Open Elective	3
	<hr/> 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

### Course Information

Courses in brackets are not offered this year.

A \$350 fee is charged to all registered architecture students (undergraduates, graduate students, and New York City Program and Rome Program participants) and is used to generate funds for the upkeep of computer and fabrication facilities.

### Architectural Design

#### 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 Design V

Fall and spring. 6 credits. Prerequisites: department students; ARCH 2102. Staff.

##### ARCH 3102 Design VI

Fall and spring. 6 credits. Prerequisites: department students; ARCH 3101. Staff. One of the key design experiences during this semester will be the dialogic interaction of architectural conceptions and building subsystems as simulated in the design studio. The requirements of building subsystems are seen to both support and inform architectural concepts and form. Questions of passive architectural responses versus active technical responses, as well as issues of thermal comfort, energy efficiency, sustainability, structure, and life safety will be addressed.

##### 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 5902 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: nonarchitecture 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 instructor. Each student is assigned to a class of appropriate level. Staff.

Nonsequence design used as temporary placement of transfer students, non-Cornell architecture 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, spring, or summer. 6 credits. Limited to department students. Prerequisites: ARCH 4102 and passing, but nonadvancing, 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 nonadvancing, grade in ARCH 5902.

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 or letter grades. 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 2009-2010. 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 4101. ARCH 5110 is a prerequisite for ARCH 5902 Design X Thesis. Failure to earn grade of C in ARCH 5110 requires automatic registration in ARCH 5104 Design Xa—an option studio. Staff.

Lectures, seminars, and independent research leading to the production of the student's thesis program. General instruction in the conceiving, programming, and development of a thesis.

**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. S-U grades only.

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: ARCH 2301–2302 or permission of instructor. Not offered every year. Staff. 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: ARCH 5301–5302, 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. Prerequisite: department student or permission of instructor. 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. Not offered every year. Staff.

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: ARCH 1501, 1502, and 2503, or 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: ARCH 5511-5512 or 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. 1 students or permission of instructor. M. Cruvellier.

For description, see ARCH 2603.

**ARCH 5604 Structural Elements**

Fall or spring. 3 credits. Prerequisite: M. Arch. 1 students or permission of instructor. J. Ochshorn.

For description, see ARCH 2604.

**ARCH 6603 Structural Systems**

Fall or spring. 3 credits. Prerequisite: M. Arch. 1 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 (also ARCH 5602)**

Fall. 3 credits. J. Ochshorn.

Building construction is examined from the following standpoints: life safety (construction types, occupancy, assemblies, egress); accessibility (ramps, doors, etc.); sustainability; conveying systems (stairs, elevators, escalators); structural materials (properties, manufacturing strategies, typical applications, and connections); envelope theory (insulation, condensation, vapor and air barriers, pressure-equalization, movement, tolerances); cladding systems (masonry, precast, metal, glass); interior systems (walls, floors, and ceilings); and technical documentation (detail drawings).

**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 (also ARCH 2602)**

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

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 semester 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://courses.cit.cornell.edu/dea4220/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 discipline-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 to 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, Viollet-le-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 3820 The Topography and Urban History of Rome in Antiquity and the Middle Ages**

Fall or spring. 3 credits. Rome Program only. J. Gadeyne. Rome is a prisoner of its past. The entire city confronts the student with almost 30 centuries of urban and architectural history. This course intends to reconstruct the urban history of Rome from its origins through the Middle Ages (10th century BC–12th century AD). The purpose of this course will be to discover the layers of Rome, combining archaeology with literature, architecture, and urban history with art history. The goal is a thorough and direct knowledge of the Roman and Medieval urban landscape and the way this landscape has sometimes survived until today. Special attention will be given to Roman and Medieval building typology, both private and public, and the development of the urban infrastructure (street system, water supply, fortifications, etc.). Strong emphasis will be placed upon continuity, use/reuse, and transformation of buildings and spaces, etc. Every week one or two different “regions” will be explored that are typical for a particular moment of the urban history. Visits to sites outside Rome also will be used to address the issue of urban history in Italy in antiquity and the Middle Ages.

Special attention will be given to Roman and Medieval building typology, both private and public, and the development of the urban infrastructure (street system, water supply, fortifications, etc.). Strong emphasis will be placed upon continuity, use/reuse, and transformation of buildings and spaces, etc. Every week one or two different “regions” will be explored that are typical for a particular moment of the urban history. Visits to sites outside Rome also will be used to address the issue of urban history in Italy in antiquity and the Middle Ages.

#### **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 5801 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, J. Rickard, 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 deviation 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 II 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), 4001, 4002 (senior thesis)

Painting: ART 1201, 2201, 3201, 3202, 4001, 4002 (senior thesis)

Photography: ART 1601, 2601, 2603; 2604, 2605, 3601 (1 of 3); 4001, 4002 (senior thesis)

Printmaking: ART 1301/1302/1303/1304 (2 of 4); 2301/2302/2303/2304 (1 of 4); 3301, 4001, 4002 (senior thesis)

Sculpture: ART 1401, 2401, 3401, 3402, 4001, 4002 (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. Thesis I and Thesis II 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), 4001/4002 23

Painting: ART 1201, 2201, 3201, 4001, 4002 23

Photography: ART 1601, 2601, 2603/2604/2605/3601 (1 of 4), 4001, 4002 23

Printmaking: ART 1301/1302/1303 (2 of 3), 2301/2302/2303/2304 (1 of 4), 4001, 4002 22

Sculpture: ART 1401, 2401, 3401, 4001, 4002 23

#### Second Area of Concentration Total Credits

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

Electronic Imaging: ART 1701, 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 4001 Thesis I and ART 4002 Thesis II.

**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.

### Cornell in Rome

The studio art component of the Cornell in Rome program draws upon the historical and cultural resources of Rome, its museums, art, and architecture, and its beauty and complexity. It provides an experience unparalleled for artistic, intellectual, and personal growth.

The program provides close individual instruction and studios that are structured but flexible enough to accommodate personal interests. Students are given the freedom to generate their own ideas and may work in any medium that compels them to investigate their personal relationship to Rome. Student projects include paintings, photo essays, collages, performance installation, sculptures, drawings, and books.

Artists resident in Rome visit and lecture. Day trips to the studios of Rome-based artists and artisans provide further inspiration. Workshops on papermaking, fresco, mosaics, egg tempera, and watercolor are frequently available.

Visitors from the various academies in Rome give student artists contact with their contemporaries and with those representing international art movements. An extensive and varied field-trip program balances great historic collections with modern and contemporary art, and the best of Italy's notable cities, towns, and landscapes.

The Rome Studio (ART 4000) may be taken for course credit in all Department of Art concentrations, and additional studio courses expose students to a wide variety of art-making modes. Each Cornell art student receives the equivalent of one semester's advanced study in his or her concentration.

The inspiration of travel and cultural encounter fuels the studio experience, and many students keep sketchbooks and journals, which they will refer to in the art they make after their return from Rome.

### Art Requirements

Students in good academic standing who have completed the requirements of the first two years of a fine arts program are eligible for participation in Cornell in Rome. Students are admitted to the program by application and review of their record. Students must register for a full semester of credits.

Students may enroll in the first or second semester of their junior year or for the full academic year. Under special circumstances, first-semester seniors also may attend Cornell in Rome. Serious studio art students from outside Cornell also are encouraged to apply. A portfolio is required.

### Sample Rome Curriculum

ART 4000	Rome Studio Requirement for Rome B.F.A. students, fulfills 4 credits in a studio concentration	4
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, and urban studies.

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.

### AAP NYC

AAP NYC is a dynamic site from which to explore contemporary art and visual culture and to create art that is responsive to urban issues and life. The Department of Art offers distinctive programs for B.F.A. students from Cornell and other colleges and universities during a January Winter Session and spring semester.

New York is a vast and diverse laboratory with extraordinary museums and galleries, countless studios of artists and designers, dynamic public art, and cultural sites and organizations that offer exceptional opportunities for students to learn first-hand about the production and presentation of art. Scheduled annually, the spring semester is a

collaboratively developed and conceptually linked plan of study with studio and theory courses, independent studies, and internships that all use the remarkable resources and opportunities of the city. Faculty members include practicing artists, theorists, critics, and curators.

The spring semester is planned for art majors in their sophomore year, but students at other levels may participate. The Winter Session is open to all students who seek an intensive, thematically organized immersion in contemporary art theory and practice. In addition to the department's Rome junior-year semester, all undergraduate art majors are encouraged to participate in at least one of these unique New York-based opportunities.

### Sample AAP NYC Curriculum

The focus of these courses may vary from year to year.

- ART 2000 New York City Studio
- ART 2001 New York City Seminar
- ART 2003 Art/Architecture History in NYC
- ART 2004 Drawing Projects (Studio)
- ART 2019 Independent Study/Studio in NYC
- ART 2109 Art Practicum in NYC (Field Studies)

### 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

BFA students can satisfy the modern art history requirement with any of these courses without petition.

- ARTH 2600 Intro to Art History: The Modern Era
- ARTH 2700 Mapping America
- ARTH 3170 Visual Culture
- ARTH 3550 Modern and Contemporary Latin American Art
- ARTH 3600 Intro to Art History: Contemporary Art: 1960 to Present
- ARTH 3605 U.S. Art from FDR to Reagan
- ARTH 3650 History and Theory of Digital Art
- ARTH 3660 Conceptual Art
- ARTH 3740 Painting 19th-Century America
- ARTH 3760 Impressionism in Society
- ARTH 4047 Aesthetic Theory: The End of Art
- ARTH 4505 Contemporary African Diaspora Art
- ARTH 4508 Exhibiting Cultures: Museums, Monuments, Rep, and Display

- ARTH 4525 Rastafari Race and Resistance
- ARTH 4578 African Cinema
- ARTH 4600 Studies in Modern Art
- ARTH 4861 Modern Chinese Art
- ARTH 4917 Modern Art and Popular Culture

#### Non-Western

BFA students can satisfy the non-Western art history requirement with any of these courses without petition.

- ARTH 2350 Introduction to Art History: Islamic Art and Culture
- ARTH 2880 Introduction to Art History: Approach to Asian Art
- ARTH 3510 Introduction to African Art
- ARTH 3550 Modern and Contemporary Latin American Art
- ARTH 3611 Art of South Asia, 1500–Present
- ARTH 3800 Introduction to Arts of China
- ARTH 3805 Representation and Meaning of Chinese Painting
- ARTH 3820 Introduction to Arts of Japan
- ARTH 3850 The Arts of Southeast Asia
- ARTH 3855 The House and the World: Architecture of Asia
- ARTH 4311 The Multicultural Alhambra
- ARTH 4505 Contemporary African Diaspora Art
- ARTH 4578 African Cinema
- ARTH 4850 Art and Collecting: East and West
- ARTH 5571 African Aesthetics
- ARTH 5850 Dancing the Stone
- Three electives: any art history elective at the 3000 level or above or any architectural history elective. Also, the following 2000-level art history courses have been approved to count toward the art history elective requirement:
- ARTH 2019 Thinking Surrealisms
- ARTH 2109 Immigrant Imagination
- ARTH 2200 Introduction to Art History: the Classical World
- ARTH 2247 Art and Archaeology/Ancient Medieval World
- ARTH 2300 Monuments of Medieval Art
- ARTH 2400 Introduction to Art History: Renaissance and Baroque Art
- Note:** Offerings may vary each semester. Students are encouraged to consult the History of Art Department. In addition, 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 2009:

Students are required to take ART 1103 Introductory Art Seminar; ART 1201 Introductory Painting; ART 1401 Introductory Sculpture; ART 1501 Drawing I; 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.):

- ART 1700 Visual Imaging in the Electronic Age
- ART 3101 Issues in Contemporary Art
- ART 3102 Modern Art in Italy: Contemporary Issues (Rome Program only)
- ARTH 3170 Visual Culture and Social Theory
- ARTH 3500 African American Art
- ARTH 3660 Conceptual Art
- ARTH 4322 The Late Medieval Devotional Image in Iberia
- ARTH 4600 Studies in Modern Art
- ARTH 4610 Women Artists
- ARTH 4663 Studies in Modern Art (IV)
- ARTH 5571 African Aesthetics
- ARTH 5993–5994: Supervised Reading
- ANTHR 3202 Arts of the Roman Empire
- ANTHR 3420 Myth, Ritual, and Symbol
- ARCH 4407 Architectural Design and the Utopian Tradition
- ASRC 3500 African American Art
- ASRC 6506 African Aesthetics
- ENGL 2000 Introduction of Criticism and Theory
- ENGL 3905 Video: Art, Theory, and Politics
- FGSS 4040 Women Artists
- FILM 3760 History and Theory
- GERST 6600 Visual Ideology
- GOVT 3755 Visual Culture and Social Theory

### First Year

<i>Fall Semester (Required Curriculum)</i>	<i>Credits</i>
1103 Introductory Art Seminar	3
Art History Elective	4
1201 Introductory Painting	3
1401 Introductory Sculpture	3
1501 Drawing I	3
First-year writing seminar	3
	<hr/> 19



*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
	<hr/> 16

**Second Year**

*Fall Semester (Required Curriculum) Credits*

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
	<hr/> 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
	<hr/> 17

**Third Year**

*Fall Semester*

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
	<hr/> 17-18

*Spring Semester*

Art studio concentration	4
Art history elective or 3000-level course in theory and criticism	3-4
In/OCE (two courses)	7
	<hr/> 14-15

**Fourth Year**

*Fall Semester*

Thesis I	6
2502 Advanced Drawing Workshop	3
In/OCE (two to three courses)	7
	<hr/> 16

*Spring Semester*

Thesis II	6
In/OCE (three courses)	9
	<hr/> 15

**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. 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**

**ART 1103 Introductory Art Seminar**

Fall. 3 credits. Prerequisite: B.F.A. students. Letter grades only. Staff. This course links theory and practice through a study of issues of contemporary art with a first-semester drawing course. The course is an opportunity for new B.F.A. students to explore issues and questions of contemporary art and culture that have particular relevance for students and artists in the early 21st century. The objectives of the course are to help B.F.A. students develop a keener understanding of issues in contemporary art; create an open forum and exploratory studio environment; and introduce first semester/first year Art majors to the intellectual community and aesthetic environment of a university art department and Cornell at large.

Through a series of coordinated activities, readings, projects, and discussions, first-year/first-semester B.F.A. students jointly and dynamically explore ideas of vision, visuality, perception, representation, and contemporary visual culture through both studio-based drawing projects, readings in art history and contemporary art criticism and theory, and close examination of selected artists' practices. Taught by a faculty member in cooperation with Drawing I faculty members, the course seeks to make meaningful connections between practice and theory in students' thinking and creative work and serves as a cohesive first-year experience shared by all new Art majors.

**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 2001 New York City Seminar**

Spring. 4 credits. Staff. This seminar involves readings, discussion, writing, trips to museums and galleries, artists, studios, other field trips, and presentations by leading critics and scholars who present and examine issues of contemporary art in one of the leading art centers of the world. The seminar is developed to conceptually connect to the studio and art/architecture history course in which students are enrolled. This course fulfills a Theory and Criticism course for B.F.A. majors.

**[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 Issues in 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 2003 Art/Arch History in NYC**

Spring. 3 credits. Staff.  
This course uses New York as a site to study developments in modern and contemporary art, architecture, and design. With students in architecture and other fields, art students study in a seminar format the historical connections of art and architectural innovations in the context of one of the world's most complex and vibrant urban environments. The course includes reading, lectures, and presentations, as well as field trips and walking tours. This course fulfills a 3000-level art history elective requirement for BFA majors.

**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 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 M.F.A. 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, three-week session. 3 credits.  
Course does not fulfill studio credit for ART 1501 Drawing I requirement. 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. Preference given to B.F.A. students. 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. Preference given to B.F.A. students. 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, three-week session. Course does not fulfill studio credit for ART 1502 Drawing II requirement. 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, six-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 on helping the student observe and discover.

**ART 2004 Drawing Projects (Studio)**

Spring. 3 credits. Prerequisite: ART 1502, Drawing II. This course fulfills ART 2501 Drawing III for B.F.A. majors. Staff.

In this course, drawing is explored in its multiple forms and capacities to explore, experience, and represent ideas of the city—its physical forms and diverse neighborhoods and inhabitants. Drawing is developed as a connective tool, navigational device, and research strategy that considers the dynamic conditions of the urban context through the independent vision of artists. Students pursue both experimental and more developed individual, serial, and collaborative drawing projects using a generous range of materials and formats. The boundaries and conventions of drawing are challenged and questioned.

**ART 2501 Drawing III**

Fall. 3 credits. Prerequisite: ART 1502.

Preference given to B.F.A. students. 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: B.F.A. Thesis I 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
4001, 4002	\$ 70

**ART 1701 Electronic Imaging in Art**

Fall or spring. 3 credits. Preference given to B.F.A. students. 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. Preference given to B.F.A. students. 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. Preference given to B.F.A. students. 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. Preference given to B.F.A. students. 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 1701 and one of the following: ART 2304, 2702, 2703, or permission of instructor.

Preference given to B.F.A. students. 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 4001 Thesis I**

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

This course prepares students for the final semester of thesis when they fully develop and complete a final exhibition/project of a new distinctive body of work. During Thesis I, students begin to research, develop, clarify, and sharpen and deepen their thesis proposal through dialogues, critiques, reading, and other activities with members of a Core Thesis Faculty. Thesis I encourages independent, critical thinking and requires students to reflect on their work to date—and their work in the future—with an understanding of historical, theoretical, and conceptual contexts.

**ART 4002 Thesis II**

Fall and spring. 6 credits. Prerequisite: ART 4001. Staff.

This course is the final semester when B.F.A. students continue to develop, refine, and produce their final capstone work, which may take the form of an exhibition or some other project. Thesis II involves the creation of new work in consultation with Core Thesis Faculty members and other faculty advisors.

**Undergraduate Studio Courses in Painting**

Fees for painting courses (1201, 2201, 3201, 3202, 4001, 4002, 4209): \$40

**ART 1201 Introductory Painting**

Fall, spring, or summer. 3 credits.

Preference given to B.F.A. students. 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.

Preference given to B.F.A. students. 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 4001 Thesis I**

Fall or spring. 6 credits. Prerequisite: ART 3202. Staff.

This course prepares students for the final semester of thesis when they fully develop and complete a final exhibition/project of a new distinctive body of work. During Thesis I, students begin to research, develop, clarify, and sharpen and deepen their thesis proposal through dialogues, critiques, reading, and other activities with members of a Core Thesis Faculty. Thesis I encourages independent, critical thinking and requires students to reflect on their work to date—and their work in the future—with an understanding of historical, theoretical, and conceptual contexts.

**ART 4002 Thesis II**

Fall or spring. 6 credits. Prerequisite: ART 4001. Staff.

This course is the final semester when B.F.A. students continue to develop, refine, and produce their final capstone work, which may take the form of an exhibition or some other project. Thesis II involves the creation of new work in consultation with Core Thesis Faculty members and other faculty advisors.

**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.

Preference given to B.F.A. students.

Course fee: \$135. 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. Course fee: \$135. Preference given to B.F.A. students. 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. Preference given to B.F.A. students. Course fee: \$215. 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. Preference given to B.F.A. students. Course fee: \$135. 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. Preference given to B.F.A. students. Course fee: \$215. 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. Preference given to B.F.A. students. 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 3601 Photography III**

Fall, spring, or summer. 4 credits. Prerequisite: ART 1601, 2601, or permission of instructor. Preference given to B.F.A. students. Staff.

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

**ART 3605 Studio Photography**

Fall or spring. 4 credits. Prerequisite: ART 1601 or ARCH 2501, and ART 2601 or 2603, or permission of instructor.

Preference given to B.F.A. students. 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 4001 Thesis I**

Fall or spring. 6 credits. Prerequisite: ART 2601, 2603. Course fee will depend on what process the student is using. Staff.

This course prepares students for the final semester of thesis when they fully develop and complete a final exhibition/project of a new distinctive body of work. During Thesis I, students begin to research, develop, clarify, and sharpen and deepen their thesis proposal through dialogues, critiques, reading, and other activities with members of a Core Thesis Faculty. Thesis I encourages independent, critical thinking and requires students to reflect on their work to date—and their work in the future—with an understanding of historical, theoretical, and conceptual contexts.

**ART 4002 Thesis II**

Fall or spring. 6 credits. Prerequisite: ART 4001. Course fee will depend on what process the student is using. Staff.

This course is the final semester when B.F.A. students continue to develop, refine, and produce their final capstone work, which may take the form of an exhibition or some other project. Thesis II involves the creation of new work in consultation with Core Thesis Faculty members and other faculty advisors.

**ART 4609 Independent Studio in Photography**

Fall, spring, or summer. 4 credits, variable. Prerequisites: juniors in good academic standing and written permission of instructor. Course fee will depend on what process the student is using. 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 his or her progress and evaluate the results.

**Undergraduate Studio Courses in Printmaking**

Fees for printmaking courses:

Intaglio (1301, 2301, 4001, 4002, 4309): \$95

Screenprinting (1302, 2302, 4001, 4002, 4309): \$45

Lithography (1303, 2303, 4001, 4002, 4309): \$95

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

**ART 1301 Introductory Intaglio**

Fall and spring. 3 credits. Preference given to B.F.A. students. 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. Preference given to B.F.A. students. 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. Preference given to B.F.A. students. 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.

Preference given to B.F.A. students. 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. Preference given to B.F.A. students. 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. Preference given to B.F.A. students. 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. Preference given to B.F.A. students. 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 4001 Thesis I**

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

This course prepares students for the final semester of thesis when they fully develop and complete a final exhibition/project of a new distinctive body of work. During Thesis I, students begin to research, develop, clarify, and sharpen and deepen their thesis proposal through dialogues, critiques, reading, and other activities with members of a Core Thesis Faculty. Thesis I encourages independent, critical thinking and requires students to reflect on their work to date—and their work in the future—with an understanding of historical, theoretical, and conceptual contexts.

#### **ART 4002 Thesis II**

Fall or spring. 6 credits. Prerequisite: ART 4001. Staff.

This course is the final semester when B.F.A. students continue to develop, refine, and produce their final capstone work, which may take the form of an exhibition or some other project. Thesis II involves the creation of new work in consultation with Core Thesis Faculty members and other faculty advisors.

#### **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, 4001, 4002, 4009:	\$75

#### **ART 1401 Introductory Sculpture**

Fall, spring, or summer. 3 credits. Preference given to B.F.A. students. 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. Preference given to B.F.A. students. 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 4001 Thesis I**

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

This course prepares students for the final semester of thesis when they fully develop and complete a final exhibition/project of a new distinctive body of work. During Thesis I, students begin to research, develop, clarify, and sharpen and deepen their thesis proposal through dialogues, critiques, reading, and other activities with members of a Core Thesis Faculty. Thesis I encourages independent, critical thinking and requires students to reflect on their work to date—and their work in the future—with an understanding of historical, theoretical, and conceptual contexts.

#### **ART 4002 Thesis II**

Fall or spring. 6 credits. Prerequisite: ART 4001. Staff.

This course is the final semester when B.F.A. students continue to develop, refine, and produce their final capstone work which may take the form of an exhibition or some other project. Thesis II involves the creation of new work in consultation with Core Thesis Faculty members and other faculty advisors.

#### **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 his or her progress and evaluate the 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 onsite in Rome. Course meets four weeks, five times per week.

**ART 2000 New York City Studio**

Spring. 4 credits. This course fulfills a 2000-level studio for BFA majors. Staff. This interdisciplinary course is thematically and topically organized. Through a series of research-based assignments and independent and collaborative arts projects, students actively engage the city as a site of open investigation and critical engagement. The thematically based studio encourages and allows students to work with a range of media. Students are encouraged to participate not as painters, printmakers, or sculptors, but as artists who pursue and use a range of materials and methodologies as part of a creative process. Students work in the AAP NYC space, as well as other sites in New York City.

**ART 2019 Independent Study/Studio in NYC**

Spring. 2-4 credits, variable. Staff. In consultation with a faculty member, students may pursue a thoughtfully developed and rigorous independent study that utilizes the context and content of New York to create an innovative research project, performance, intervention, installation, or other body of work. Student must complete an ART Independent Study/Studio form.

**ART 2109 Art Practicum in NYC**

Spring. 1-6 credits, variable. This course fulfills an IN/OUT college elective for B.F.A. majors. The credit amount will be determined by and in consultation with the department chair. Students choose an internship with an arts, cultural, or civic organization that has an established relationship with AAP NYC or another organization or venue. Students have direct, hands-on experience and receive academic credit for their work.

**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, winter, 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 his or her progress and evaluate the results.

**ART 4000 Rome Studio**

Fall or spring. 4 credits. Fulfills 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 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 his or her progress and evaluate the results.

**CITY AND REGIONAL PLANNING**

K. Donaghy, chair (106 W. Sibley Hall, 254-5378); S. Baugher, L. Benería, R. S. Booth, director, URS program; N. Brooks, S. Christopherson, J. Chusid, P. Clavel, M. Drennan, J. F. Forester, A. Forsyth, W. W. Goldsmith, 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. Repts, S. Schmidt, S. W. Stein, R. T. Trancik. Visiting: I. Azis, T. Vietorisz

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 used 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 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).

### Basic Degree Requirements for Students in the Graduating Classes of 2011 and Subsequent Years

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 physical education requirement. 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*: qualification in one foreign language can be demonstrated by completing three courses in one foreign language in high school, **or** by taking the Cornell Advanced Standing Examination (CASE), **or** by successfully completing two to three college-level foreign language courses.
- Distribution Requirements*: nine courses. Students must successfully complete nine courses for the distribution requirement. A total of four courses must be completed in the categories of Physical and Biological Sciences (PBS-AS) and Mathematics and Quantitative Reasoning (MQR-AS). Of those four courses, **at least two** must be classified as PBS **and at least one** course must be classified as MQR course. The fourth course can be classified as either PBS or MQR. The remaining five courses must be courses identified by the College of Arts and Sciences in the categories of Cultural Analysis (CA-AS), Historical Analysis (HA-AS), Knowledge, Cognition, and Moral Reasoning (KCM-AS), Literature and the Arts (LA), and Social and Behavior Analysis (SBA). These five courses must be selected from at least four of these five categories (i.e., CA-AS, HA-AS, KCM-AS, LA-AS, and SBA-AS). No more than three of these five courses can be taken in any one department. URS students may petition to substitute equivalent courses from the Colleges of Agriculture and Life Sciences, Engineering, Human Ecology, Industrial and Labor Relations, and Architecture, Art, and Planning. Grades of S–U cannot be applied toward the distribution requirement.

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 (fall, 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)

Microeconomics: one course from a list of microeconomics courses (fall or spring, 3 or 4 credits)

Statistics: one course from a list of statistics courses (fall or spring, 3 or 4 credits)

#### 3. Area Requirements: six CRP courses

The program requires that students take courses in six areas:

- Design and Land Use (one course from designated list of courses)  
Students understand cities, suburbs, and regions in terms of aesthetic perspectives (both historically and in the present) and patterns of human use of land that shape physical, social, ecological, and economic character.
- Urban History, Society, and Politics (one course from designated list of courses)  
Students examine the growth, development, and character of today's urbanized areas and their resident populations, in light of a complicated and constantly evolving interplay of historical forces, social and economic concerns, and political constituencies, ideas, and choices.
- Environment (one course from designated list of courses)  
Students become aware of the past, present, and future influence of the natural environment (including both living and nonliving elements) as modified by humans, in shaping, and in many instances substantially limiting the growth and development of cities/suburbs and regions.
- Regional Development and Globalization (one course from designated list of courses)  
Students learn to recognize how the economic health and general well-being of particular cities/suburbs and regions, and their inhabitants, is dramatically influenced by far-flung social and economic forces whose impacts are felt throughout whole regions, nations, and even the world at large.
- Methods for Planning and Urban Studies (one course in qualitative/field methods from designated list of courses)  
Students gain knowledge and skills regarding use of interview, survey, participant observation, and other nonquantitative methods in analyzing attitudes, behaviors, trends, and other information pertinent to the growth and development of cities/suburbs and regions, and the well-being of their inhabitants.

- Methods for Planning and Urban Studies (one course in quantitative methods from designated lists of courses).  
Students understand, develop, and apply tools used in analyzing 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/suburbs and regions, and the well-being of their inhabitants.

### Basic Degree Requirements for Students in the Graduating Class of 2010

Students in the class of 2010 should refer to the distribution requirements specified in *Courses of Study* for the year in which they matriculated.

#### 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 Minor (non-URS majors)

The Urban and Regional Studies minor 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) minor, 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 3000 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 minor application form, available in 106 W. Sibley Hall. The URS program director (who also serves as URS minor advisor) verifies completion of the minor, 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 minor on the student's transcript.

#### URS Students in Minors Offered by Other Departments

The department recognizes minors earned within the university (accepting standards set by various colleges). URS students may apply for minors 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 minor, and formal notification is received by the AAP registrar, the concentration will be recorded on the student's official transcript at the time of graduation.

### Off-Campus Opportunities

**Cornell in Rome.** The urban studies component of Cornell in Rome is offered during the spring semester for students interested in the economic, political, cultural, and social life of contemporary European cities and regions. It is open to urban studies majors and related disciplines.

By living and studying in the center of one of the world's most historic, beautiful, and dynamic cities, students gain a deeper understanding of the powerful local, regional, and global forces that are reshaping urban communities abroad and at home.

In addition to taking classes with architecture and art students, participants engage in field research and assist civic leaders and municipal officials in developing workable solutions to challenging problems confronting contemporary Roman neighborhoods.

Students meet with professional planners, government officials, community activists, leading architects, researchers, and others responsible for urban policy-making in the areas of economic development, neighborhood stabilization, urban design, regional planning, city management, agricultural development, tourism, historic preservation, and immigration.

Students complement their classes and fieldwork with travel to Italy's most important artistic, economic, and political centers. Participants have the opportunity to see Italy and its European neighbors work together to form a more powerful regional economy and political alliance through the increasingly influential European Union.

The program's cultural immersion and community-based research experience significantly strengthen application for graduate or professional school, and also enhance the effectiveness of young professionals employed in increasingly global workplaces.

Graduate planning and international studies students gain invaluable work experience as full-time interns with one of the United Nations agencies headquartered in Rome (such as the Food and Agricultural Organization or the International Commission on Objects and Monuments), in an Italian city planning agency (fluent Italian required), or in a nongovernmental agency. Rome faculty members help graduate students individually to arrange intern positions. An updated résumé and internship questionnaire must be submitted with the program application.

**AAP NYC.** AAP NYC provides an exciting off-campus semester with courses and professors that engages students with New York City's economics and politics, housing and transportation, and art and design. Participants study the use of streets and public spaces, and faculty and guest lecturers guide students through the astonishing variety of the world's premier city.

Studying and living in New York City complements classroom-based coursework in Ithaca with the chance to learn onsite. The

New York program is envisioned to fit well with both Ithaca and Rome allowing students to apply ideas first encountered in Ithaca courses to the big-city laboratories off campus. The CRP faculty has identified a diverse set of educational partners, connected to both the public and private sectors, to provide high-quality site visits, guidance in professional internships, and special events.

During a semester in New York City, Urban and Regional Studies (URS) juniors and seniors can learn how such a complex system functions, how its elements interact, how new businesses set up and prosper while others fail, and how City Hall, the Port Authority, and various other state and local agencies try to manage things.

The internship course combines work experience two days each week with formal Friday lunchtime discussions. Every other Friday experienced professionals from across the metropolitan region join students to discuss their current work in planning, design, and development. On alternate Fridays students report on their work, meeting with faculty and fellow interns.

Students enjoy opportunities to gain work experience on issues ranging from arts and culture to planning, public policy, housing, and economic development through CRP's internship program. Students may select work with private firms, public agencies, neighborhood-based groups, or NGOs. The list of possible internships is extensive and individually tailored. Interns take full advantage of the special resources of New York, working with people in AAP's broad network of alumni and friends in a range of professional fields. Placements are matched to students' study areas and career interests. *Students with the appropriate academic background from other colleges at Cornell or outside Cornell may be eligible to attend.*

**Cornell in Washington Program (CiW).** Students in good standing may earn degree credits through course work and an externship in Washington, D.C. Students at CiW 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.

**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 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 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.) degree 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. Staff.

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

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

Fall. 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 2300 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 3010 Public Administration (also CRP 6010)

Fall. 3 credits. Not offered every year. R. Schwarting.

This course prepares students to work within government departments and agencies, state and local authorities, and nonprofit public benefit corporations; and with private firms working in the public interest at the interface with governments and public benefit corporations. While the emphasis is on local and mid-size organizations, some material will address international and domestic national level organizations. As a first-year graduate program course it prepares students to conduct research on public organizations leadership and management and to be effective in public careers. It also prepares upper-level undergraduate students for internships and entry into public-sector careers.

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

Fall or spring. 4 credits. K. Donaghy.  
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 3072 Land Use, Environmental Planning, and Urban Design Workshop (also CRP 5072)

Fall or spring. 4 credits. A. Forsyth.  
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 others, 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, and strategies for increasing housing opportunities.

**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 AAS/AMST 3950/6950, 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 AAS 3900, AMST 3102/6102, CRP 6102)**

Fall or spring. 3 credits. C. Lai.

United States political institutions have shaped Asian American immigration, community formation, and political expression. They have also influenced legal rights and racial formation processes. This course examines public policy and political issues that affect Asian Pacific Americans, including electoral politics, social justice/grassroots movements, affirmative action, and multiracial/interracial coalitions. We investigate both the interaction between state institutions and political movements and how this dialectic frames political issues and accommodates political challenges. Particular attention will be paid to different means of political organization and different strategies toward political empowerment. The course will be situated within the broader context of post civil-rights racial politics and postwar political economic restructuring.

**CRP 3105 Urban Political Economy Seminar: Property and Expropriation (also CRP 6105)**

Fall or spring. 3 credits. C. Lai.

This course deals with current topics in urban political economy and examines past and present-day seizure 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 3111 Immigrant Entrepreneurship Markets and the U.S. City: The Latino(a) Case (also CRP 6111, LSP 3111/6111)**

Spring. 3 credits. A. Sanchez.

The rise in urban entrepreneurship among certain immigrant groups, and the variable forms of neo-liberal economic and spatial restructuring in U.S. cities, require that we view immigrant businesses from a critical and

transdisciplinary perspective. This course will foreground how distinct ethnic entrepreneurial patterns and socially constructed immigrant labor markets are framed by both difference and policy regimes.

**CRP 3180 Politics of Community Development (also CRP 5180, LSP 3180/5180)**

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 3201 Qualitative Research and Design Methods (also CRP 6201)**

Fall or spring. 3 credits. J. Forester.  
This course focuses on theoretical and practical dimensions of qualitative research design and methods. The course covers qualitative designs, ethics including Cornell University's Committee on Human Subjects (UCHS), data-gathering methods including interviews, focus groups, surveys, field observation, and archival research, sampling rationales, data analysis procedures, quality criteria, representation, and reporting.

**CRP 3202 Visual Methods in Planning (also CRP 6202)**

Spring. 3 credits. Staff.  
Visual representation and urban design analysis methods in planning. Topics include design thinking, visual communication of spatial ideas, visual analysis, and graphic techniques in public participation.

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

Spring. 3 credits. K. Donaghy.  
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 3301 Urban Mentorship Initiative**

Fall and spring. 3 credits. Staff.  
A service-learning initiative between Cornell and middle/high school students. The course focuses on history, urban education, and social justice in order to prepare students for mentoring of middle/high school students at the school via web-based dialogue and field trips.

**CRP 3308 New York City Professional Internships**

Fall. 6 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 nonprofit 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 3310 Social Justice and the City: Preparation for Urban Fieldwork**

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

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 nonprofit 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. Staff.

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 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 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 United States, with a particular focus placed on how these institutional arrangements and conditions compare with the United States

**CRP 3506 Environmental Planning Seminar: Wilderness and Wildlands (also CRP 6506)**

Fall or spring. 2–3 credits, variable.  
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 3508 Urban Transformations in NYC**

Fall. 3 credits. Letter grades only. Offered in New York City. Staff.

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 3540 Introduction to Environmental Planning (also CRP 5540)**

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 3601 Museum and the Public (also CRP 6601)]**

Spring. 3 credits. Next offered 2010–2011.  
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 3602 American Planning History (also CRP 6602)**

Fall. 3 credits. P. Clavel.

This lecture and discussion course covers the 20th-century growth of city and regional planning. Related institutions and individual planners are put in the context of social movements and legislative innovation. Students will also have the opportunity to work with practicing planners, other scholars, and Cornell University Library’s Division of Rare and Manuscript Collections.

**CRP 3608 The Built Environment of New York City**

Fall. 3 credits. Letter grades only. Offered in New York City. Staff.

Students will learn about the history, culture, politics, and social life of New York City’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 3610 Seminar in American Urban History (also CRP 6610)**

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 3650 Gender and Globalization (also FGSS 3600)**

Fall. 3 credits. L. Benería.

For description, see FGSS 3600.

**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 3721 Italy and the European Union (also CRP 6711)**

Spring. 4 credits. M. Cremaschi.

The main objective of this course is to develop an advanced understanding of how urban policies are changing in Italy. A great

deal of policy innovation is due to the pressure exerted directly or indirectly by the European Union.

**CRP 3760 Latin American Cities (also CRP 6760, LSP 3760/6760)**

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 3801 Asian American Urban Experience (also AAS/AMST 3801/6801, CRP 6801)**

Fall or spring. 3 credits. C. Lai.

This seminar uses the case of Asian Americans in the United States to examine the intersection of race, space, and power from a social geographical and ethnic studies framework. The course includes both an introduction to spatial theory and racial theory and history of Asian immigrant communities in the 19th and 20th centuries.

**CRP 3810 Principles of Spatial Design and Aesthetics (also CRP 5810)**

Fall. 3 credits. Limited to 15 students.

J. Foster.

A lecture projects course that introduces the spatial and visual design vocabularies of cities. Aesthetic principles and theories of design are investigated for different types of urban spaces drawn from a variety of international examples, historic and modern. Included in the course are design methods and applications in the contemporary urban context of Europe and North America.

**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 3860 Planning for Sustainable Transportation (also CRP 6860)**

Spring. 3 credits. S–U or letter grades. Not offered every year. 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 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. 6 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. Not offered every year. 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 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 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 4970 Independent Study**

Fall or spring. 4 credits, variable. Prerequisite: junior or senior standing; permission of instructor. Staff.

**Special Topics Courses**

Fall or spring. Variable credit. Staff.

Typical topics are:

CRP 3850 Special Topics in Planning

CRP 3851 Special Topics in Design and Land Use

CRP 3852 Special Topics in Urban History, Society and Politics

CRP 3853 Special Topics in Environment

CRP 3854 Special Topics in Regional Development and Globalization

CRP 3855 Special Topics in Qualitative and Field Methods

CRP 3856 Special Topics in Quantitative Methods

**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 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.

For description, see CRP 3072.

**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. N. Brooks.  
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. A. Sanchez.  
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 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 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. Staff.  
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 5450 Inferential Statistics for Planning and Public Policy**

Fall or spring. 3 credits. N. Brooks.  
This course is an introduction to the inferential statistical methods and econometrics/regression analysis needed to understand empirical public policy and planning research and to do basic applied public policy analysis. The statistical concepts are illustrated using data and examples primarily from the fields of public policy and planning.

**CRP 5460 Introduction to Community and Environmental Dispute Resolution**

Fall or spring. 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 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 5610 Historic Preservation Planning Workshop: Surveys and Analyses**

Fall. 4 credits. J. Chusid.  
Covers techniques for the preparation of surveys of historic structures and districts; identification of American architectural styles, focusing on upstate New York; and explorations of local historical resources, funding sources, and organizational structures. Lectures and training sessions. Emphasizes fieldwork with individuals and community organizations.

**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 5810 Principles of Spatial Design and Aesthetics (also CRP 3810)**

Spring. 3 credits. J. Foster.  
For description, see 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 6010 Public Administration (also CRP 3010)**

Fall. 3 credits. Not offered every year. R. Schwarting.  
For description, see CRP 3010.

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

Fall or spring. 4 credits. K. Donaghy.  
For description, see CRP 3011.

**CRP 6012 Legal Aspects of Public Agency Decision-Making**

Fall. 4 credits. R. Booth.

This course introduces the application of legal concepts to decision-making processes conducted by governmental agencies, particularly at the federal level. It explores how constitutional law, statutory law, and judge-made law shape agency decisions. Attention is given, for example, to roles agencies play in American government, differences between rule-making proceedings and adjudications, rights of parties to obtain judicial review of agency decisions, how judges review factual and legal determinations by agency officials, and the rights of parties appearing before agencies.

**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 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 AAS 3900, CRP 3102)**

Fall or spring. 3 credits. C. Lai.  
For description, see CRP 3102.

**CRP 6105 Urban Political Economy Seminar (also CRP 3105)**

Fall or spring. 3 credits. C. Lai.  
For description, see CRP 3105.

**CRP 6111 Immigrant Entrepreneurship Markets and the U.S. City: The Latino(a) Case (also CRP 3111)**

Spring. 3 credits. A. Sanchez.  
For description, see CRP 3111.

**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 6201 Qualitative Research and Design Methods (also CRP 3201)**

Fall or spring. 3 credits. J. Forester.  
For description, see CRP 3201.

**CRP 6202 Visual Methods in Planning (also CRP 3202)**

Spring. 3 credits. Staff.  
For description, see CRP 3202.

**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 6220 Planning Policy and Analysis**

Spring. 3 credits. I. Azis.  
The course is designed to familiarize students with the essence of planning models and equip them with analytical tools to undertake a practical quantitative policy and planning analysis. Two categories of models to be discussed are: (1) economy-wide models that capture complete interactions between economic and social indicators such as income distribution and poverty; and (2) non-Bayesian decision-making models that combine intangibles and subjective judgments with statistical data and other tangible actors, and that can also capture feedback influences.

**CRP 6302 Economics of Financial Crises (also NBA 5950)**

Spring. 3 credits. I. Azis.  
Understanding the causes, nature, and consequences of financial crises is of interest to both the public and private sector. The purpose of this course is to help students with such understanding, and to familiarize them with the relevant tools for analyzing the phenomena of financial crises. While crisis is often multidimensional, the focus of this course is on economics.

**CRP 6311 Consulting for Nonprofit and Government Organizations**

Fall and spring. 4 credits. L. Haas-Manley.  
This class teaches practical skills that will enable students to work with clients in the local community, learn about organizational structure and culture, and gain real-world experience as they complete a public-service project. Students receive instruction on topics such as organizational development, program evaluation, project management, professional communication, and strategic planning. A significant portion of the course will focus on project management.

**CRP 6320 Methods of Regional Science and Planning I**

Spring. 4 credits, variable. K. Donaghy.  
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 6390 Economics of Financial Crises (also NBA 5950)**

Spring. 3 credits. I. Azis.  
Understanding the causes, nature, and consequences of financial crises is of interest to both the public and private sector. The purpose of this course is to help students with such understanding, and to familiarize them with the relevant tools for analyzing the phenomena of financial crises. While crisis is often multidimensional, the focus of this course is on economics.

**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 Suburbia (also CRP 3502)**

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. S. Schmidt.  
For description, see CRP 3504.

**CRP 6506 Environmental Planning Seminar: Wilderness and Wildlands (also CRP 3506)**

Fall or spring. 2–3 credits, variable.  
E. Thorndike.  
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 (also CRP 3601)]**

Spring. 3 credits. Next offered 2010–2011.  
J. Chusid.  
For description, see CRP 3601.]

**CRP 6602 American Planning History (also CRP 3602)**

Fall. 3 credits. P. Clavel.  
For description, see CRP 3602.

**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 every other year.  
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 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 6700 Regional Planning and Development in Developing Nations**

Fall or spring. 4 credits. Prerequisite: second-year graduate standing.  
M. Gonzalez.

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 6711 Italy and the European Union (also CRP 3721)**

Spring. 4 credits. M. Cremaschi.  
For description, see CRP 3721.

**CRP 6720 International Institutions**

Fall. 3 credits. L. Benería and M. Gonzales.  
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 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 6801 Asian American Urban Experience (also CRP 3801)**

Fall or spring. 3 credits. C. Lai.  
For description, see CRP 3801.

**CRP 6860 Planning for Sustainable Transportation (also CRP 3860)**

Spring. 3 credits. S–U or letter grades. Not offered every year. Staff.  
For description, see CRP 3860.

**CRP 6901 Real Estate Review**

Fall and spring. Variable 1–2 credits.  
D. Funk.  
Real Estate Review is for students undertaking a research project culminating in an article worthy of publication in the *Cornell Real Estate Review*.

**CRP 7770 Theories of Development and Underdevelopment**

Fall or spring. 4 credits. P. Olpadwala.  
Various theories attempting to analyze and explain the phenomena of underdevelopment are examined. Although a range of thought and approaches are considered, the accent is on aspects of political economy revolving around concepts of class and exploitation. Topics include the transition of capitalism; dependent and uneven development; various issues of growth and fluctuation under contemporary capitalism, including crisis; rural and industrial development in less developed countries, and planning for development.

**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 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**

Fall or spring. 3 credits. K. Donaghy.

This course will survey traditional and more recent explanations of the location, aggregation, and fragmentation of economic activities in space under different assumptions about the mobility of factors, transportation (or more generally, transaction) costs, economies of scale, and the competitiveness of markets. The relationship between theories of trade and location will be considered, as will the effects on spatial economies of policy interventions.

**CRP 8100 Advanced Planning Theory**

Fall. 3 credits. Staff.

A survey of the works of scholars who have contributed to current thinking about planning theory. Alternative assumptions concerning models of man and theoretical concepts concerning the nature of planning today are considered.

**CRP 8300 Seminar in Regional Science, Planning, and Policy Analysis**

Fall or spring. 4 credits, variable. S-U grades only. K. Donaghy.

CRP 8300 is a weekly seminar at which faculty, students, and visitors present their research on topics of current interest. Presentations usually involve formal or quantitative analyses of developments in regional economies and policy or planning implications.

**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. 12 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****LANDSCAPE ARCHITECTURE**

Landscape Architecture at Cornell is jointly sponsored by the College of Agriculture and Life Sciences and the College of Architecture, Art, and Planning.

**The Program**

Program faculty: P. J. Trowbridge, chair (443 Kennedy Hall, 255-2738); S. Baugher, K. L. Gleason, A. Hammer, P. Horrigan, D. W. Krall, L. J. Mirin, A. Okisbo, D. Ruggeri.

Landscape Architecture offers a three-year master of landscape architecture license qualifying degree, administered through the Graduate School, for those who have a four-year undergraduate degree in another field. The major is composed of several parts: core courses related to professional education in landscape architecture; a concentration in a subject related to the core courses; and free electives. Requirements of the three-year M.L.A. curriculum include 90 credits, six resident units, satisfactory completion of the core curriculum courses, and a thesis or a capstone studio.

The department also offers a two-year master of landscape architecture advanced degree program, administered through the Graduate School, for those with accredited degrees in landscape architecture or architecture. The two-year program entails core courses in the discipline and the development of concentrations in subject-matter areas such as landscape history and theory, landscape ecology and urban horticulture, the cultural landscape, site/landscape and art, or urban design.

Both of these degrees are accredited by the Landscape Architecture Accreditation Board (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: Landscape Architecture courses are offered through the College of Agriculture and Life Sciences except LANAR 4970, 5240, and 5250. For complete course offerings, see Landscape Architecture course listings on pages 110-113 of this catalog.

**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.

**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.

**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.  
Baugher, Sherene, Ph.D., SUNY, Stony Brook. Visiting Prof., City and Regional Planning  
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  
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