The academic programs of the School of Architecture encompass the broad range of concerns, disciplines, and sensitivities expressed in Thomas Jefferson’s timeless architectural achievements, which is widely considered to be one of the most significant achievements of American architecture.

Four distinct, yet increasingly interrelated, disciplines provide a rich setting for professional education. Architecture and Landscape Architecture seek to integrate the academic and professional aspects of their disciplines in the belief that design skills must be responsive to cultural, historical, and physical context as much as to functional need. Architectural History aims to develop an awareness of the value of the past. Urban and Environmental Planning addresses community sustainability and the balance between environment, economy, and social equity. The Common Course (SARC 600), a course required of graduate students in all departments, explores themes common to architecture, architectural history, landscape architecture, and urban and environmental planning. In addition to this and other courses regularly offered in each discipline, the curricula provide ample interdisciplinary opportunities for the exploration of such diverse contemporary issues as urbanism, energy conservation, social equity, environmental protection, preservation, and adaptive re-use.

The School of Architecture offers four graduate programs leading to the Master of Architecture, the Master of Landscape Architecture, the Master of Architectural History, and the Master of Urban and Environmental Planning. In conjunction with the Graduate School of Arts and Sciences, it also offers a Doctor of Philosophy in the History of Architecture. The programs are accredited by the National Architectural Accrediting Board, the Landscape Architecture Accreditation Board, and the Planning Accreditation Board; and the school holds memberships in the College of Schools of Architecture, the Association of Collegiate Schools of Planning, the Council of Educators in Landscape Architecture, the National Council for Preservation Education, the Society of Architectural Historians, and the National Trust for Historic Preservation. In addition to the graduate degree programs, the school offers two interdisciplinary programs of study, one leading to the Certificate in Historic Preservation and the other to the Certificate in American Urbanism.

The full-time faculty numbers about 45, augmented by 20 to 30 visiting lecturers and critics from this country and abroad who bring to students their varied perspectives and wide-ranging experience. The student body averages approximately 530 students, of whom about 200 are graduate students.

The Thomas Jefferson Foundation Professorship in Architecture has been funded since 1965 by an annual grant from the same foundation that has guided the restoration and preservation of Monticello, the home of Thomas Jefferson. The foundation also awards an annual medal and honorarium to a practitioner or teacher of international distinction and has established two fellowships that are awarded annually to outstanding graduate students in the School of Architecture.

The Institute for Environmental Negotiation, established in 1981, is affiliated with the Department of Urban and Environmental Planning and has become a major resource for the resolution of land-use and environmental conflicts. In addition, the institute awards three or four assistantships each year that provide graduate students with training and experience in negotiation and consensus building.

Mr. Jefferson’s legacy seems as appropriate and alive today as it did in 1819 when the University was founded; and it is one of the imperatives of that legacy, and a central educational aim of this school, that students understand their culture as well as their profession. Since we expect to play major roles in the analysis, planning, design, development, and protection of the physical environment, nationally and internationally, we are charged with that most difficult of tasks: the development of “the whole person,” one who understands how a craft is connected to a society, who appreciates the larger context of life, and who seeks elegant and practical approaches to its ever-changing needs. Jefferson sought “useful knowledge” and was able to fashion that knowledge artfully. We take that as our tradition also. Seen in this light, “profession” is raised to the level of art, and when that art serves life, lasting culture results.

**Student Honors and Awards**

Both the school and professional organizations from the fields of architectural history, landscape architecture, and urban and environmental planning recognize outstanding achievements with the following honors and awards.

**The Stanley and Helen Abbott Award** is awarded annually to the graduating student in Architecture to graduating students in that program for outstanding promise in the field of landscape architecture.

**The American Institute of Architects School Medal** is awarded annually to the outstanding graduate student in Architecture. The award is supported by an endowment fund established in 1914 in the estate of the late Henry Adams.
The American Planning Association Award is presented annually to the graduate and undergraduate students exhibiting outstanding achievement in urban and environmental planning.

The American Institute of Certified Planner Award is presented annually to a graduate and undergraduate student demonstrating outstanding promise as a professional planner.

The Virginia Citizens Planners Association Award is presented annually to a graduate and undergraduate student exhibiting the ideal of service to the public interest through planning.

The American Society of Landscape Architects Certificates of Honor and Merit are awarded to outstanding graduating students in the Landscape Architecture.

The Architectural History Faculty Book Award is awarded annually to a graduating student from the Department of Architectural History.

The Clark Group Construction, Inc. Award is given each year to a student exhibiting overall achievement and professional promise in the fields of construction and building technologies.

The Paul S. Dulaney Conservation and Preservation Award is given each year to an outstanding student in urban and environmental planning who has contributed to the field through outstanding academic work.

The Benjamin C. Howland Traveling Fellowship is awarded each year to a graduating student in Landscape Architecture.

The Betty Leake Service Award is awarded annually to a graduating student from the Department of Architectural History.

The Sarah McArthur Nix Traveling Fellowship is awarded to a third-year undergraduate or graduate student from Architecture for a summer of study/travel in France.

The Frederick Doveton Nichols Award for Outstanding Academic Achievement is made each year for outstanding academic achievement to a graduate and an undergraduate student in the Department of Architectural History.

The Carlo Pelliccia Traveling Fellowship for study in Italy is awarded each year.

The Lori Ann Pristo Award is made each year to the graduate student in architecture with the highest grade point average.

The RTKI Fellowship is awarded each year to a graduate architecture student.

The Sean Steele-Nicholson Memorial Award, in memory of Sean Steele-Nicholson (BS Arch ’91), is presented each year at graduation to a student who has exhibited overall excellence in design and scholarship and an enthusiasm, joy, and wonder for architecture, coupled with the ability to instill these qualities in others.

Financial Aid Sources
Some of the available sources of financial aid within the School of Architecture are:
- DuPont Fellowship for Graduate Studies
- Governor Fellowships
- IEN Graduate Assistantships
- Graduate Student Assistantships
- Work-Study Fund
- Special Student Aid
- Thomas Jefferson Fellowships
- Arts and Sciences Graduate Fellowships
  (Ph.D. only)

Scholarships and Fellowships:
Anonymous Architecture Scholarship
Boniface Graduate Student Joseph Bossman Fellowships
Charles Brown Memorial Scholarship
Center for Palladian Studies Scholarship
Bevin and Vito Cetta Endowed Fellowship
Clark Construction Group Scholarship
Colonial Dames Scholarship in Historic Preservation
William D. Darden Memorial Scholarship
Janet Carlson Duchen Scholarship
Paul S. Dulaney Memorial Fund
Bessie F. and Ernest L. Gilliland Endowed Scholarship
Joseph W. Gold Memorial Scholarship
Ella R. and Milton Grigg Endowed Scholarship
Jefferson C. and Catherine F. Grinnals Scholarship
Frederic Lord Holloway Endowed Scholarship
Peter R. Kutscha Endowed Memorial Scholarship
James E. Pate Memorial Scholarship
Dana H. Rowe Memorial Scholarship
Scribner Messer Brady Wade Graduate Student Scholarship
Lambert Woods Architects Scholarship

Academic Information
Candidates for a degree in one of the four graduate curricula offered in the School of Architecture must hold an approved baccalaureate degree from an accredited college or university.

Applicants whose previous course work does not include the equivalent of courses listed under the “admission” paragraph for any of the described degree programs must complete those courses before enrollment or, with permission, while enrolled in their respective graduate program.

An explanation of the course numbering system is given in the How to Read Course Listings section of this Record.

Inquiries concerning degrees should be addressed directly to the Dean of the School of Architecture.

Grading System
The following letter grade symbols are used for grading students in the Graduate School of Architecture:
A, A-, B+, B, B-, C, F, S, U. Students in the Graduate School of Architecture: students may take undergraduate courses on a CR/NC basis, but those courses may not be offered toward a graduate degree.

Incomplete and Missing Grades
A grade of IN (Incomplete) is not a valid final grade and becomes an F ten days after the end of the examination period unless a student requests an extension and obtains approval using a form signed by the course instructor and approved by the Associate Dean for Students. Students with a written doctor’s medical excuse submitted to the Associate Dean for Students will receive an IN for work remaining at the end of the semester for which that excuse is applicable. A grade of IN approved for extension converts to F four weeks after the end of the examination period. Thesis credit deadlines are handled on a case-by-case basis between the student and the thesis chair. Instructors are not authorized to extend the time for completion of course work without the Associate Dean for Student’s approval. Forms for securing extensions are available in the Student Services Office, 120-A Campbell Hall.

A notation of NG (no grade reported) computes as an F and remains on the transcript unless corrected.

Grade Changes
No grade may be changed without the approval of the Dean after it has been submitted to the University Registrar. The Dean is not authorized by the faculty to change a grade submitted to the University Registrar except when an instructor certifies that, because of errors in calculation or transcription, an incorrect grade has been submitted. Extra work to raise a grade, once submitted, is not permitted. The School limits the time in which a grade change is approved to the fall or spring semester following the one in which the grade was received, except when there is indication that the student violated the integrity of the course.

Academic Good Standing
The lowest acceptable grade for a student in the Graduate School of Architecture is a B-. Students who earn more than two grades lower than a B- are required to leave the program in which they are enrolled. Students failing a studio cannot continue in the studio sequence until they have successfully passed the course. Two failing grades in the same or different studios may result in the student being asked to leave the program.

Course Expectations
In each of the degree programs, students should expect that courses may require the purchase of textbooks, materials or equipment or students may incur costs in the form of field trips upon occasion.

Ownership of Student Works
The School of Architecture reserves the right to retain student course work for purposes of exhibition and/or publication with appropriate credits. Professors who wish to retain student work for their own purposes must gain the student’s consent and provide adequate documentation of the work for the student.

Student Owned Computers
Graduate students are required to own a personal computer. A list of recommended types of computers is at
Applications
1. Deadline for all applications for Architecture, Architectural History, and Landscape Architecture is January 15; for the Department of Urban and Environmental Planning, it is February 1. All admissions materials should be sent to the Graduate Admissions Office, School of Architecture, Campbell Hall, P.O. Box 400122, Charlottesville, VA 22904-4122. For information about applying for admission to the Ph.D. program in architectural history, see the description of that program given below.

2. A non-refundable application fee of $40 must accompany the application. Make the check or money order payable to: University of Virginia School of Architecture. Foreign checks accepted in U.S. dollars only.

3. If an applicant wants to apply to more than one department he or she must fill out an application, pay the application fee for each department, and submit supporting documents for each application.

4. The financial aid form serves as the basis for scholarships awarded by the School of Architecture. Other financial assistance in the form of loans and part-time employment is administered by the Office of Financial Aid to Students and must be applied for separately. See chapter 3.

5. Graduate Record Examination (GRE) scores are required.

6. A non-refundable deposit of $250, made payable to the University of Virginia School of Architecture, is required at the time of acceptance. This deposit is applied to the student’s fees upon enrollment.

Master of Architectural History
Admission Applicants must hold an approved baccalaureate degree from an accredited college or university. Admission to graduate study will normally require an average of B or better and a command of at least one foreign language. Candidates admitted to the program must, before beginning their work for the degree, have taken the equivalent of AR H 101 and 102 (Intro to Architectural History) and one semester of architectural design studio (ARCH 201). These prerequisites may be satisfied by taking AR H 112 and ARCH 204, or the equivalent, during the school’s summer session. (Students do not normally enter the program in the spring semester, although this is permitted in special circumstances with approval of the chair.)

Curriculum The program’s purpose is to equip the student with a sound background in architectural history, including its principles and interpretation. The degree requires a minimum of 36 credits at the graduate level. The degree requirements should be considered as a minimum core program. Architectural History is the primary vehicle for students who wish to obtain the Certificate in Historic Preservation. Others may wish to explore interests in fields related to the History of Architecture. Thus, the student should expect to take more than the required minimum courses during the normal four semesters of residency. Qualified students interested in historic preservation can complete the requirements for the Certificate in Historic Preservation and the Master of Architectural History within a two-year period.

Historic Preservation Certificate Program Students wishing to enter the Historic Preservation Certificate Program must be admitted to one of the graduate degree programs in the School of Architecture. In order to ensure proper academic advising and program coordination, students interested in the Historic Preservation Program should attend the program meeting at the start of the fall semester. Upon arriving at the Architecture School they should also file a program participation form with the Architecture School’s registrar. Students who complete the required 21 credits of preservation course work receive a Certificate in Historic Preservation, in addition to their master’s degree. There are individual courses that fulfill the requirements of the historic preservation certificate curriculum that also fulfill requirements within the architectural history department curriculum. Thus, students normally complete the course work for the historic preservation certificate during the same period in which they complete their degree program. For example, the course in the Theory of Historic Preservation counts as one of the 700-level seminar courses required by the department. The overall certificate program fulfills the degree program’s requirement for minor field of study. The courses in Group B of the Foundations of Preservation Core can count towards a major field requirement in American architectural history.

Placement Examination Students from different disciplines apply to the program. For those students who lack adequate undergraduate preparation in the field, the curriculum has been structured to allow deficiencies to be remedied.

Upon entry into the program, candidates will take a placement examination composed of two sections. Section one is Egyptian, Greek, Roman, Early Christian, Byzantine, Romanesque, Gothic, and Early Renaissance. Section two is 1500-present, and includes High Renaissance, Baroque, and European including, England, France, Germany, Italy and North American, since the first European contact. Students who fail in one or more of these fields are required during the first year to take the appropriate course or courses. Only one such course may be used to satisfy the degree requirements; it would take the place of the free elective.

Language Qualification Candidates are required to demonstrate a reading knowledge of one foreign language, preferably French, Italian, or German. This requirement may be satisfied by earning the grade of B or better in an intermediate-level university course in the language within two years of admission, by a score of at least 550 on an ETS Graduate School Foreign Language Test, or by a language departmental reading test.

Course Distribution Three credits must be in AR H 800 (Methods in Architectural History), three credits in SARC 600 (The Common Course), and three thesis credits. In addition, each student must have at least nine credits at the 800 level or above, and at least one course from four of the following distribution areas: Ancient and Medieval Architecture, Renaissance and Baroque Architecture, European Architecture since 1700, American Architecture, and non-Western Architecture. Courses taken at other institutions are normally not accepted. Under special circumstances a petition for an exception of one or two courses might be granted.

Major and Minor Field Areas Each student must complete a major field of nine credits and a minor field of six credits selected from among the distribution areas listed above. Students enrolled in the Historic Preservation Certificate Program may select historic preservation as their six-credit minor. Of the 36 credits required for the degree, 33 must be in AR H courses, although in extraordinary circumstances, and by prior approval of the Department Chair, the student may substitute other courses, e.g., art or history.

Comprehensive Examination The examination is given during the spring semester of the second year, and requires mastery of the discipline of architectural history including its less familiar aspects. The preparation required for this examination should be kept in mind when selecting courses, conducting student-run seminars, pursuing outside reading, and attending additional courses informally.

Thesis The thesis is a major piece of independent work undertaken under the supervision of a committee from the Department. The committee is normally composed of two full-time Department Faculty, one of who serves as Chair, and a third member. The thesis represents three credits, normally taken during the student’s fourth semester. It is possible to explore the thesis topic more broadly by enrolling for an independent research course in conjunction with the thesis course.

Typical Program of Study
First Year
First Semester
AR H 800 Methods in Arch. History........3
AR H Major field area .........................3
SARC 600 The Common Course ..........3
AR H Elective ..................................3

Second Semester
AR H Elective ..................................3
AR H Other distribution areas .............3
AR H Elective ..................................3

Total Credits 12
 degree Total 

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<th>First Semester</th>
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Degree Total 

(1) A course beyond the 36 credits required to satisfy the minimum requirements for the degree. These electives may be used to explore interests in related fields or to satisfy the requirement of a second or third preparatory course from among AR H 701, 702.

Doctor of Philosophy in the History of Architecture

The Doctor of Philosophy in the History of Architecture prepares students to teach at the university and college level, both in traditional art history and humanities programs and in professional schools. Holders of the degree may also engage in any number of other fields, for instance: preservation, writing and publishing, curatorial work in museums, and the practice and teaching of architecture.

The degree is offered through the Graduate School of Architecture, while the program is located in the Department of Architectural History in the School of Architecture. In addition to the requirements for the school's Master of Architectural History, the doctorate's requirements include an additional year of course work, competence in at least one more foreign language, successful completion of field examinations, and the successful defense of a dissertation. Limited financial aid is available, some of which requires teaching.

Admission Required for admission into the doctorate program is the equivalent of the School of Architecture's Master of Architectural History. Students lacking that preparation should apply for admission to the Master of Architectural History Program with a clear indication of their interest in the Ph.D. program. Admission to the doctorate program is a separate procedure pursued through the Graduate School of Arts and Sciences. Admission is based on the student's record in graduate architectural history courses and other graduate-level work as revealed in the official transcript and letters of recommendation (at least two are required), on Graduate Record Examination scores, and on the form and content of the statement of intent submitted as part of the application. An interview is useful but not required.

Curriculum and Course Distribution In addition to the requirements for the M.Arch.H. degree (36 credits), the doctorate program requires a minimum 18 credits of additional graduate course work and 18 credits of non-topical research.

The student must select an area of major field concentration and at least two minor field areas. Field examinations are held in each of these areas, which include American, European since 1750, Renaissance-Baroque, Medieval, Ancient, and non-Western architecture. Upon consultation with an advisor, the student may create a new field for examination, and/or select a minor field area from another Department (e.g., art history: American or Renaissance art; Anthropology: American Archaeology; History: Colonial, etc.). Counting the M.Arch.H. courses, the student is required to present for the Ph.D. degree at least five courses in the major field area, three courses in each of the two minor field areas, and at least one course in all other Architectural History areas.

Language Qualification The doctorate calls for a reading knowledge of at least one more foreign language than the one required for the M.Arch.H., usually French, German, or Italian (although Latin or some other language may be substituted with permission). This requirement may be satisfied by earning the grade of B or better in an intermediate-level university course in the language within two years of admission, or by a score of at least 550 on an ETS Graduate School Foreign Language Test, or by a language departmental reading test.

Examinations The Ph.D. field examination is normally held in the first semester of a student's second year and consists of written and oral segments taken consecutively over a three to five day period. The student must submit a dissertation prospectus prior to taking the field examination and complete the language requirement. The written portion of the exam is two days in length. The first day is devoted to the major field area and takes about six hours to write; the second day consists of two three-hour written segments in the student's two minor field areas. The faculty reads the examination, and the oral examination segment follows on either the third, fourth, or fifth day, and consists of one hour on the major field area and one-half hour on each of the minor field areas. The student is expected to demonstrate familiarity with buildings and other works related to architecture, the methods used for dealing with that knowledge, and the history and bibliography connected to it. Attention is also directed to the economic, intellectual, and social history that surrounds specific architectural history questions.

Dissertation A dissertation, normally prepared in the third year of doctorate study, is meant to make an important contribution to knowledge. The formation of the committee should follow the guidelines of the Graduate School of Arts and Sciences. The dissertation committee will consist of at least four including: two full-time department faculty members, one of whom will serve as chair, a member from another department in the Graduate School of Arts and Sciences, and a fourth member who can be from the department or from outside. The time and place of the dissertation defense must be posted at least two weeks before its scheduled date.

Typical Program of Study

Note that an M.Arch.H. or equivalent degree is required for admission to the program. Not included here are courses required for that degree, and various additional required non-topical research courses.

First Ph.D. Year

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<th>First Semester</th>
<th>AR H ___ Major field area</th>
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<th>AR H ___ Non-Topical research</th>
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<td>AR H ___ or ARTH (or other) elective</td>
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Second Ph.D. Year

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Third Ph.D. Year

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<th>AR H 999 Dissertation</th>
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<td>Dissertation</td>
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degrees frequently gain advanced standing. A two-semester Master of Architecture Program, directly tailored to the interests of each student, is available for those with an undergraduate professional degree in architecture. Students who wish to obtain the Master of Architecture degree should have at least a 3.0 cumulative grade point average with a 3.5 average in design studios. Admission to the Master of Architecture programs is extremely competitive.

Curriculum The Master of Architecture (M.Arch.) curriculum emphasize strong foundation studies in design with support courses in architectural history and theory, building, and construction. To gain broader understanding of the relationships within and parallel to the field of architecture, students may take courses in the departments of Architectural History, Landscape Architecture, and Urban and Environmental Planning. The program has a strong emphasis on issues of architectural pedagogy, and upper level graduate students are encouraged, through an optional teaching elective, to expand their knowledge by serving as teaching assistants to undergraduate students in design, theory or technology courses.

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 US 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 conformance with established educational standards.

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

The University of Virginia’s Master of Architecture program received a professional six-year term of accreditation in 2003. This program will be reviewed again in 2009. A professional degree in architecture is a necessary prerequisite for the one-year post-professional Master of Architecture degree.

Master of Architecture Curriculum
This program allows students to obtain a first professional degree in three years plus an initial summer session. Applicants must hold a baccalaureate degree from an accredited college or university. Students entering with a four-year pre-professional bachelor’s degree in Architecture may receive up to one year of advanced placement.

Prior to enrollment, it is required for students to have completed a calculus and physics course or the equivalent. Candidates admitted to the program must have taken a survey course in Architectural History. This prerequisite may be satisfied by taking ARCH 112 during the summer.

After the first year, each student's studio work is evaluated to determine progress and ability to continue in the program. In the spring of their second year, students initiate a comprehensive design project that explores detailed design development of a small institutional or commercial building. Issues of programming, building structure, materials and assembly, detailing and life safety are explored in conjunction with ARCH 848 and ARCH 823.

Summer Session
ARCH 501 Foundation I \( ^{(1)} \) 3
ARCH 502 Foundation II \( ^{(1)} \) 3
ARCH 505 Architectural Graphics \( ^{(2)} \) 2
ARCH 544 Computer Graphics and Design Application \( ^{(2)} \) 2

First Year
Fall Semester
ARCH 601 Design Studio \( ^{(1)} \) 6
Prerequisite: ARCH 502
ARCH 641 Studio Workshop \( ^{(1)} \) 1
ARCH 612 Architectural Theory and Analysis \( ^{(1)} \) 3
SARC 600 The Common Course \( ^{(1)} \) 3
ARCH 626 Construction and Intention \( ^{(1)} \) 3

Spring Semester
ARCH 602 Design Studio \( ^{(1)} \) 6
Prerequisite: ARCH 601
ARCH 642 Studio Workshop \( ^{(1)} \) 3
Elective \( ^{(1)} \) 3
ARCH 614 Architecture Analysis: Key Buildings of Modernism \( ^{(1)} \) 3
ARCH 624 Introduction to Structural Design \( ^{(1)} \) 4

Second Year
Fall Semester
ARCH 701 Design Studio \( ^{(1)} \) 6
Prerequisite: ARCH 602
ARCH 721 Structural Design for Dynamic Loads \( ^{(1)} \) 3
LAR 533 Sites and Systems \( ^{(1)} \) 3
Elective \( ^{(1)} \) 3

Second Year
Spring Semester
ARCH 702 Design Studio \( ^{(1)} \) 6
Prerequisite: ARCH 701
ARCH 725 Environmental Control Systems and Lighting \( ^{(1)} \) 4
ARCH 723 Design Development \( ^{(1)} \) 4
Elective \( ^{(1)} \) 3

Post-Professional Master of Architecture Program
This program is for those with a professional undergraduate degree in architecture (B.Arch.). The program provides post-professional degree students an opportunity to undertake more advanced interdisciplinary studies in architecture. These self-initiated studies are supervised by faculty members and draw on the resources of the School of Architecture and the University. Because of the individualized nature of this program, the applicant is encouraged to visit the School of Architecture for an interview. Each student develops a specific curriculum with a minimum of thirty credits in consultation with the chair. The duration of study may be extended beyond one year with permission of the chair. This degree is not accredited by NAAB. International students interested in gaining licensure in the United States should apply to the professional degree program.

Semester 1
ARCH 801 Architectural Design Option Studio \( ^{(1)} \) 6
Open elective \( ^{(1)} \) 3
Open elective \( ^{(1)} \) 3
Open elective \( ^{(1)} \) 3

Semester 2
ARCH 802 Architectural Design Option Studio \( ^{(1)} \) 6
Prerequisite: ARCH 801
ARCH Architectural elective \( ^{(1)} \) 3
Open elective \( ^{(1)} \) 3
Open elective \( ^{(1)} \) 3
Degree Total ........................................30
(1) Students may elect course work other than studio
with permission from the chair.
(2) Students may pursue a thesis in lieu of ARCH 802.
Thesis students must take ARCH 821 (Design
Research Seminar, 3 credits) and get approval from
the chair.

Other Academic Programs
Certificate Programs in Historic Preservation
and American Urbanism are open to all grad-
uate students. Admission is subject to the
approval of the chair of the Department of
Architecture and Landscape Architecture and
the director of the program. Students must
also meet all requirements for admission to,
and completion of, the Master of Architecture
Programs. Students are expected to meet the
program requirements within the normal cur-
rriculum.

Historic Preservation Certificate
Program Students wishing to enter the His-
toric Preservation Certificate program must
be admitted to one of the graduate degree
programs in the School of Architecture. In
order to ensure proper academic advising and
program coordination, students interested in
the Historic Preservation Program should
attend the program meeting at the start of the
fall semester. Upon arriving at the Architec-
ture School they should also file a program
participation form with the Architecture
School’s registrar. Students who complete the
required 21 credits of preservation course
work receive a Certificate in Historic Preser-
vation, in addition to their department’s mas-
ter’s degree. There are individual courses that
fulfill the requirements of the historic preser-
vation certificate curriculum that also fulfill
requirements within the architecture pro-
curriculum. For example, the Commu-
ity Preservation Studio (6 credits) counts as
one of the studios required for the fulfillment
of the architecture program. Thus, students
normally complete the course work for the
historic preservation certificate during the
same period in which they complete their
degree program.

American Urbanism Certificate
Program This program is open to qualified
degree candidates who wish to engage in a
focused study of the issues and questions cen-
tral to the interpretation of the American
urban landscape and to the creation of new
paradigms of urban design. The program’s cur-
rriculum is intentionally flexible to provide
students the opportunity to develop individ-
ual programs of study with the review and
guidance of the program director. Because of
the special nature of the program interested
candidates are strongly advised to arrange an
interview with the program director.

Dual Degree Programs The multi-discipli-
ary structure of the School of Architecture
offers unique opportunities for students to
pursue dual graduate degrees. Dual degrees
are offered with Architectural History, Land-
scape Architecture and Urban and Environ-
mental Planning. The dual degree depends
upon admission to each program under the
appropriate requirements. Students with
prior undergraduate degrees in Architecture
can expect to earn a dual degree in Archite-
cture and Landscape Architecture within three
academic years. Path A students can expect to
earn a dual degree in four academic years.
Students interested in pursuing a dual degree
should consult with the Department Chair.

Programs Abroad Architecture students
may, with approval, participate in one of the
summer programs abroad when offered.

Master of Landscape Architecture
Admission Students from a wide variety of
academic backgrounds, both with and with-
out prior study in landscape architecture, are
admitted to this graduate degree program.

Students without background study con-
stitute the majority of the student body. Nor-
mally, they complete the degree requirements
in six semesters, plus a prerequisite summer
session studio taken before the first fall
semester. Prior to enrollment, students are
encouraged to become familiar with the disci-
pline through reading and/or coursework in
the history of landscape architecture, drawing
or ecology.

Students with degrees in architecture and
landscape architecture can be granted
advanced standing and may complete the
degree requirements in four semesters.

Curriculum This graduate-level profes-
ional degree program prepares graduates for
professional work in private offices, teaching,
and public service. At the core of the curricu-
lum is the design studio. Design invention is
grounded in the language of the discipline
through an understanding of its relationship
to architecture and the study of landscape
history, theory and ecology. The design of the
landscape embodies a vision of public life and
an attitude towards the natural world. It
brings together the study of natural systems
with the exploration of social, ethical, and
cultural issues. It is also, fundamentally,
about making and building, grounded in
understanding of materials and processes.

Essential to the design process is the ability
to read and interpret site within its context
and shape its next evolution. Understanding
sites and systems is developed through the
“ecology and technology” sequence of courses
in plants, landform, detailing, site engineer-
ing, and digital media, all of which stress the
importance of giving form to conceptual ideas
and values investigated in history and theory
courses, and synthesized through projects in
design studios. Elective seminars address
special topics in landscape architecture, along
with offerings to explore issues in the related
disciplines

The design studio is structured to expose
students to the range of scales and issues in
landscape architecture, along with opportuni-
ties to participate in interdisciplinary and
independent studies.

Master of Landscape Architecture Curriculum

The Master of Landscape Architecture pro-
gram allows students with liberal arts degrees
to obtain a first professional degree in land-
scape architecture. This requires three years
plus an introductory summer session. Each
semester’s work consists of a design studio
with supporting history, theory, construction,
and natural systems courses.

A total of eighteen elective credits are
required. Six of those credits (two courses)
must be taken in the Landscape Architecture
program. The remaining credits may be taken
in any program of the University. Since stu-
dents come from different backgrounds and
experiences, electives can be distributed
either to give students exposure to the differ-
ent fields related to landscape architecture, or
to develop an area of expertise, such as design
theory, historic preservation, ecological
design and planning, or urbanism. Students
may undertake an independent study with a
faculty member as one of their electives, but
those wishing to take more than one inde-
pendent study must petition the faculty to do
so.

In the final year, students may elect
to undertake an independent studio. If so, L AR
821 (Research Methods) must be taken in the
fall semester in order to develop a thesis,
identify a faculty advisor(s), and prepare a
theoretical basis for the spring term inde-
pendent studio. L AR 821 counts as one of the
six elective courses.

Students with accredited baccalaureate or
masters degrees in architecture or landscape
architecture may receive up to one year in
advanced standing.

Below is a typical program of study for
Masters of Landscape Architecture. The
sequence of courses may vary for individual
students, in consultation with their faculty
advisor. Each student is responsible for meet-
ing with their advisor and completing their
advising sheet each semester.

Summer Session
L AR 501 Design Foundations I ...........3
L AR 502 Design Foundations II ..........3
L AR 503 Landscape Drawing &
Representation .........................2
L AR 544 Computer Graphics & Design
Application .........................2

First Year
Fall Semester
L AR 601 Design Studio I ............6
L AR 533 Sites & Systems ..........3
L AR 537 Plants and Environment I ....4
SARC 600 Common Course ..........3

Spring Semester
L AR 602 Design Studio II ..........6
L AR 538 Plants and Environment II .4
L AR 534 Earth Work .................4
L AR 512 Landscape Architectural
History ............................4

18
Second Year

Fall Semester
LAR 701 Design Studio III ..........6
LAR 733 Site Assembly I ...........2
LAR 735 Site Work I ...............2
LAR 514 Theories of Modern .....3
    Landscape Architecture ........
    Elective ........................3
                                 16

Spring Semester
LAR 702 Design Studio IV ..........6
LAR 734 Site Assembly II ..........2
LAR 736 Site Work II ................2
LAR 732 Regenerative Technologies ..2
    Elective ........................3
                                 15

Third Year

Fall Semester
LAR 801 Design Studio V ..........6
Electives ............................6
LAR 821 Research Methods (pre-req in
    Independent Studio) .............3
LAR 801 Design Studio V ..........6
    Electives ........................9
                                 15

Spring Semester
LAR 802 Design Studio VI or ........6
    Independent Studio ..............6
LAR 832 Contract Documents & ...4
    Professional Practice ...........
    Electives ........................6
                                 15

Degree Total ........................106
Electives: 18 credits required of which 6 credits must be in LAR program

Other Academic Programs

Dual Degree Programs The multi-disciplinary structure of the School of Architecture offers unique opportunities for students to pursue dual graduate degrees. These degrees are offered in Architecture and Urban and Environmental Planning, and Architectural History. The dual degree depends upon admission to each program under the appropriate requirements. Students interested in pursuing a dual degree should consult the chair of Landscape Architecture.

Independent Studio and Interdisciplinary Options The final semester of design course work provides the student with the opportunity to investigate an area of special interest through an independent studio, an interdisciplinary studio, or an advanced landscape architecture studio. If the student undertakes an independent studio in the spring term, it must be preceded by LAR 821 (Design Research Seminar). Student work closely with a faculty advisor in the development of a thesis and the exploration of its design implications.

Historic Preservation Certificate Program Students wishing to enter the Historic Preservation Certificate program must be admitted to one of the graduate degree programs in the School of Architecture. In order to ensure proper academic advising and program coordination, students interested in the Historic Preservation Program should attend the program meeting at the start of the fall semester. Upon arriving at the Architectural School they should also file a program participation form with the Architecture School’s registrar. Students who complete the required 21 credits of preservation courses work receive a Certificate in Historic Preservation, in addition to their department’s master’s degree. There are individual courses that fulfill the requirements of the historic preservation certificate curriculum that also fulfill requirements within the landscape architecture department curriculum. For example, the Community Preservation Studio (6 credits) counts as one of the studios required for the fulfillment of the landscape architecture program. Thus, students normally complete the course work for the historic preservation certificate during the same period in which they complete their degree program.

American Urbanism Certificate Program This program is open to qualified degree candidates who wish to engage in a focused study of the issues and questions central to the interpretation of the American urban landscape and to the creation of new paradigms of urban design. The program’s curriculum is intentionally flexible to provide students the opportunity to develop individual programs of study with the review and guidance of the program director. Because of the special nature of the program interested candidates are strongly advised to arrange an interview with the program director.

Programs Abroad Landscape Architecture students may, with approval, participate in one of the summer programs abroad when offered.

Accreditation The Graduate Program in Landscape Architecture (M.L.A.) is accredited by the Landscape Architecture Accreditation Board.

Master of Urban and Environmental Planning Admission Students from a wide range of academic backgrounds are admitted to the Master of Urban and Environmental Planning degree program. Applicants with an accredited bachelor’s degree in the social sciences, engineering, design, or liberal arts contribute to the vitality of the program and to the field of planning.

Overview and Philosophy The Master of Urban and Environmental Planning degree is designed to prepare students to become significant contributors as professional planners in a variety of public, private, and non-profit settings.

The requirements for the degree consist of 50 credits: 20 in the core generalist courses, 15 in a special concentration, in planning application courses (one of these courses must be in the area of concentration), and 9 in open electives. Courses are selected from the courses offered in the department as well as those available through other departments in the School and University. Students earning dual degrees or who have transferred from other planning programs may warrant advanced standing and be able to complete the planning program in less than two years. Students may take more than the minimum 50 credits if their schedules allow it.

One of the distinctive features of our program is our commitment to community sustainability. Sustainability is addressed in specific courses with that title, but sustainability also provides the underlying framework for virtually all of the department’s courses. The title of our department is Urban and Environmental Planning. We believe it is necessary to consider both the urban and environmental aspects of a setting to address its issues, problems, and opportunities. We are as much concerned with the economy and issues of equity as we are with the environment and find it more useful to emphasize linkages than distinctions, although both are sometimes necessary. We hope to inspire our students to share our enthusiasm for addressing the planning needs of sustainable communities.

The Core Courses Required of All Students
SARC 600 The Common Course
PLAN 601 Planning Process and Practice
PLAN 604 Legal Aspects of Planning
PLAN 605 Methods of Planning Analysis
PLAN 607 Urban Theory and Public Policy
PLAN 609 Planning Theory and Practice

Planning Application Courses In addition to the above courses, all students must take at least two planning application courses (PLAC). A planning application course combines theory and application, emphasizing application through a project approach. These are listed each semester in the Course Offering Directory, with their subject matter: rotating among land use planning, housing, community development, environmental impact analysis, social planning, transportation planning, neighborhood analysis, and other subjects.

Planning Concentrations While the core classes provide the basic curriculum, students meet with their advisors to plan a course of specialized study called Planning Concentrations (PCs). Their purpose is to guide the student in designing a coherent program with an individual focus. The Planning Concentrations listed below should not be viewed as mutually exclusive program compartments. Rather, they are umbrella categories that assist students in focusing their interests. Within these categories, individual students may develop subspecialties. The PCs overlap, combine, and reinforce each other, remaining flexible while suggesting the types of programs we emphasize at the University of Virginia.
Housing and Community Development: This concentration stresses the issues of established communities, land reuse and redevelopment, and community and economic development. Housing is a key element in each. Different emphases are feasible depending upon whether one’s interest is primarily physical, economic, or social. Opportunities are provided to explore land development and public/private development partnerships, and/or to concentrate on urban design and preservation planning. Community organization, social equity, and participatory aspects of communities are also important. The foundation course for this concentration is PLAN 540.

Environmental Management and Conservation: Planners who specialize in the environment perform functions such as assessing the impacts of land development on the biophysical environment and recommending policies to conserve air, water, land, energy, and minerals. These individuals also develop plans for addressing the issues of sensitive settings, such as coastal, mountain, wetland, heritage, and special habitat areas. Environmental planning embraces many settings, ranging from urban environments to wilderness areas to agricultural ecosystems. The foundation course for this concentration is PLAN 553.

Land Use and Growth Management: As communities change or grow, decisions are made about the uses of land, about qualities desired in the physical environment, and about the location of development and the protection of open areas. Questions of public facilities and financial resources arise alongside issues of timing and adequacy. A wide range of tools now exists in land use and growth management planning. These include plans, regulations, tax and finance policies, as well as public service programs. Local land use and growth management activities are frequently linked with regional and state level concerns. The foundation course for this concentration is PLAN 560.

Historic Preservation Planning: Planners with a special interest in historic preservation work in numerous settings. They may be on the staff of a local planning agency, work closely with a historic architectural review board, develop the historic element for a comprehensive plan, prepare nominations for building or districts, or prepare strategies to take advantage of historic assets for economic development purposes. Planners also work for state offices of historic preservation, non-profit preservation advocacy groups, and private consultants. Many planners combine their interest in historic preservation with housing and community development or with land use and growth management. Students may earn a Certificate in Historic Preservation and choose their courses accordingly, or they may select a more flexible course of study while completing this planning concentration.

The foundation course for this concentration is PLAN 530. The year-long community history sequence offered through the Department of Architectural History can also provide an appropriate starting point for this concentration.

Student-Designed PCs: Although the four PCs described above permit a substantial degree of flexibility, students are also free to develop planning specialties outside these categories. Students might wish to develop specializations in urban design, transportation planning, or planning and public health. Required course work depends on the individual’s previous study.

Internship: The internship is an approved, ten-week assignment in an agency, firm, or organization engaged in planning activities. It takes place during the summer between the first and second years of study, for which no course credit is given and no tuition is charged. Prior work experience may satisfy this requirement.

two-year Program Summary: A typical two-year program leading to the Master of Urban and Environmental Planning degree would follow this general pattern:

First Year

First Semester
SARC 600 The Common Course ............3
PLAN 601 Planning Process & Practice ....4
PLAN 607 Urban Theory & Public Policy .................3
PLAN ____ Concentration course or elective ..................3

Second Semester
PLAN 604 Legal Aspects of Planning ..........3
PLAN 605 Methods of Planning Analysis .................4
PLAN ____ Concentration course ............3
PLAN ____ Elective ....................................3

Summer Session
Internship in a planning agency, organization, or firm (no credit)

Second Year

First Semester
PLAN 609 Planning Theory & Practice ..........3
PLAC ____ Applications course ...............3
PLAN ____ Concentration course ............3
PLAN ____ Elective ................................7

Second Semester
PLAC ____ Applications course in concentration ..............3
PLAN ____ Concentration course ............3
PLAN ____ Concentration course ............3
PLAN ____ Elective ................................7

Degree Total .......................................50

As many as six credits may be gained by independent study for approved projects or work experience. These credits are granted only when the work or subject has been approved in advance by the faculty. Normally, the independent study credits include periodic faculty review, appropriate readings, and a final report in the form of an analytical paper or case study.

Students are encouraged to take courses throughout the School and University. The School of Law, the School of Engineering and Applied Science, the Darden Graduate School of Business Administration, and the Graduate School of Arts and Sciences all offer a variety of courses appropriate for degree requirements.

Other Opportunities

Advanced Standing: Graduates of accredited undergraduate planning programs will be considered for advanced standing in special cases. A minimum of 30 graduate credits, in addition to the undergraduate degree, must be completed at the University of Virginia. This must be constructed so that, combined with the undergraduate program, each of the requirements for the Master of Urban and Environmental Planning degree is met, including the core courses, planning application courses, planning concentration, and internship. The advanced standing opportunity is intended for students with strong undergraduate records and at least a 3.5 GPA in planning courses.

Dual Degrees: These programs are available with the departments in the School of Architecture and various departments of the Graduate School of Arts and Sciences, including government and environmental science. Dual degree programs are also available with the School of Law, the Darden Graduate School of Business Administration, and the School of Graduate Engineering and Applied Science, and depend upon admission to each program under the appropriate requirements. These programs permit the joint use of credit to satisfy the requirements of each degree and shorten the time required for attaining both degrees. Interested students should consult the department chair.

Programs Abroad: Planning students may, with approval, spend a semester in one of the programs abroad when offered.

Institute for Environmental Negotiation: Negotiation and mediation are increasingly important in policy making and in the resolution of development controversies. The Institute for Environmental Negotiation of the Department of Urban and Environmental Planning is a major resource for the provision of these conflict resolution skills. The Institute sponsors visiting mediation practitioners, offers courses in negotiation skills and public involvement, and provides training opportunities through assistantships. The Mediator, newsletter of the institute, is available on the web at www.virginia.edu/ien.

Historic Preservation Certificate Program: Students wishing to earn the Historic Preservation Certificate program must be admitted to one of the graduate degree programs in the School of Architecture. In order to ensure proper academic advising and program coordination, students interested in the Historic Preservation Program should...
attend the program meeting at the start of the fall semester. Upon arriving at the Architecture School they should also file a program participation form with the Architecture School’s registrar. Students who complete the required 21 credits of preservation course work receive a Certificate in Historic Preservation, in addition to their master’s degree program. Individual courses that fulfill the requirements of the historic preservation certificate curriculum may also fulfill requirements within the urban and environmental planning program curriculum. Thus, students normally complete the course work for the historic preservation certificate during the same period in which they complete their degree program. For example, with the approval of the planning program chair, one of the two planning application course requirements may be satisfied by an appropriate preservation course.

American Urbanism Certificate Program This program is open to qualified degree candidates who wish to engage in a focused study of the issues and questions central to the interpretation of the American urban landscape and to the creation of new paradigms of urban design. The program’s curriculum is intentionally flexible to provide students the opportunity to develop individual programs of study with the review and guidance of the program director. Because of the special nature of the program interested candidates are strongly advised to arrange an interview with the program director.

Accreditation The Graduate Program in Urban and Environmental Planning is accredited by the Planning Accreditation Board, sponsored jointly by the American Institute of Certified Planners and the Association of Collegiate Schools of Planning.

Interdisciplinary Programs

Historic Preservation Certificate Program

The interdisciplinary program in Historic Preservation offers master’s degree candidates in architecture, architectural history, landscape architecture and urban and environmental planning the opportunity to expand their professional studies through specialized training in the ethics and practice of historic preservation. Preservation has grown increasingly important in defining a civic sense of place, buttressing sustainable communities, conserving urban neighborhoods, protecting rural and scenic areas, and enriching public understanding of social, cultural, and architectural history. The program provides the opportunities for graduate students to develop the skills and expertise of the preservation practitioner within their own discipline, while at the same time studying the breadth of preservation work in related fields. Faculty from all four disciplines in the School of Architecture and distinguished visiting practitioners teach the preservation courses.

Admission Students wishing to enter the Historic Preservation program must first be admitted to one of the graduate departments in the School of Architecture. In order to ensure proper academic advising and program coordination, students interested in the Historic Preservation program should attend the program meeting at the start of the fall semester. Upon arriving at the Architecture School they should also file a program participation form with the Architecture School’s registrar. Students who complete the required 21 credits of preservation course work receive a Certificate in Historic Preservation, in addition to their department’s master’s degree. There are individual courses that fulfill the requirements of the historic preservation certificate curriculum that also fulfill requirements within a student’s departmental curriculum. Thus, students normally complete the course work for the historic preservation certificate during the same period in which they complete their degree program.

Historic Preservation Certificate Curriculum: Work in the Historic Preservation Program is grouped into four general areas.

I. Foundations of Preservation Core is made up of six courses divided into three thematic groups that provide an ethical and conceptual overview of preservation. Certificate candidates take four of six courses in this core that are divided as follows: they take the one course in Group A, one of two courses in Group B, and two of three courses in Group C. (12 credits total):
A. Theory (candidates take the one course, 3 credits) AR H 590, Historic Preservation Theory and Practice
B. History (candidates take one of two courses, 3 credits) AR H 781/782/783/784
Early/Later 20th C. American Architecture L AR 512/L AR 513, History of Landscape Architecture/History of American Landscape Architecture AR H 781/782/783/784
Early/Later 20th C. American Architecture L AR 512/L AR 513, History of American Landscape Architecture
C. Practice (candidates take two of the three courses, 6 credits) ARCH 511, Design Approaches to Existing Sites PLAN 530, Preservation Planning AR H 982, Field Methods and Conservation in Historic Preservation

II. Community History, Design, and Planning Core is a year-long interdisciplinary research, design, and planning project that focuses on preservation-related projects in a single community (6-9 credits):
A. Community History Workshop (3 credits, fall semester, for all certificate candidates)
B. One of the following: Community Preservation Studio (6 credits, spring semester, for architecture and landscape architecture students)
Community Public History and Planning Seminar (3 credits, spring semester, for architectural history and planning students)

III. Electives. There are numerous elective courses available that cover specialized aspects of historic preservation. Students in architectural history and planning are required to take at least one elective course that permits them to pursue work in their own particular discipline with greater depth. This course equalizes the credit differential that arises in the community history core and gives all certificate candidates the required 21 credits (3 credits, for architectural history and planning students).

IV. Internship. A required internship permits students to obtain valuable experience in preservation-related work. Students may pursue the internship either during the school year or during the summer. Students have taken advantage of numerous internship opportunities with US/ICOMOS, National Park Service, HABS/HAER/HALS, English Heritage, Preservation Action, the National Trust for Historic Preservation, Monticello, local planning authorities, and with preservation planning and design firms. UVA’s Institute for Public History coordinates a summer internship program with numerous Virginia institutions and communities that is open to students in the School of Architecture. Students who enroll in the preservation program with substantial prior work in the preservation field will have the internship requirement waived. Inquiries should be addressed to Direct, Historic Preservation Program, School of Architecture, P.O. Box 400122, Charlottesville, VA 22904-4122.

American Urbanism Certificate Program

The Program of Advanced Studies in American Urbanism provides opportunities for the masters degree candidates to examine the fundamental, symbolic, and pragmatic values underlying American urban landscapes. Urban design has become an increasingly complex multi-disciplinary endeavor. Design at this scale requires an individual who has acquired a knowledge of urban history, the process(es) of urban development, design skills derived from an understanding of the theories and practices of both architecture and landscape architecture, and most importantly a coherent set of principles with which to discern, steward, and enhance the social, cultural and political values of embodied in urban form. The program’s curriculum emphasizes the development of multi-disciplinary design and analytic skills to enable a student to creatively engage the problems of the contemporary urban environment.

Admission The program is open to students who have been admitted to one of the graduate degree programs in the School of Architecture and to practitioners who seek to expand their understanding of urban form and processes. Candidates should submit a letter of intent to the director, describing their interest in the program and relevant experience. Candidates in fields other than
Architecture and Landscape Architecture may be required to submit a portfolio for review. Admission to the Program of Advanced Studies in American Urbanism requires the approval of the director and the candidate’s department chair. Students who complete the required 24 credits of coursework receive a Certificate in American Urbanism in addition to their masters degree. Students will normally be able to complete the coursework during the same period required for completion of their program. Inquiries should be addressed: Director, American Urbanism Program, School of Architecture, P.O. Box 400122, Charlottesville, VA 22904-4122.

Requirements The curriculum for the Certificate Program in American Urbanism includes required core courses and elective coursework. Required course(s) supplement the studio curriculum providing insight into the history, and theory of the development of urban form. Elective courses allow students to pursue individual interests in greater detail and offer the possibility to benefit from the breadth of expertise found within the School of Architecture and the University. The program director will review the course selection of all certificate candidates.

The core curriculum includes three courses (15 credits) that offer an introduction and overview to the principles and practices of urban design, and their application. All candidates will be required to successfully complete the required core curriculum: Theories and Practices of Urban Design, 3 credits; Urbanism Studio, 6 credits; Studio (to be determined in consultation with the director), 6 credits.

The remaining 9 credits will be made up of some appropriate combination of research and coursework, which will reflect the background and interests of the candidates and is determined in consultation with the program’s director.

Programs Abroad
Master Architectural History students may, with approval, participate in one of the programs abroad when offered. The following programs are subject to change.

Fall Program in London, England This program is open to graduate students in the history of architecture department for study at the Courtauld Institute of Art. Students participating in this program are on leave of absence from the University.

Summer Program in Venice, Italy The program is directed and taught by faculty members from the University of Virginia, with the assistance of Italian adjunct faculty. The program provides a research based curriculum for three elective credits. The focus is on contemporary issues facing the city of Venice and its surrounding landscape combining historical and contemporary analysis with design studies. This program is open to all four disciplines and requires a minimum enrollment in order to be offered. Knowledge of Italian language is recommended.

Summer Program in Vicenza, Italy This program is open to all students in the School of Architecture. The program carries no credit other than three optional credits for Independent Study. Extensive field trips to explore the art, architecture, and urbanism of the region are a prominent part of the program. Instruction is provided by University of Virginia and Italian adjunct faculty members. Knowledge of Italian language is recommended.

Summer Program in Beijing, China The UVa program in China introduces students to Chinese art, architecture, landscape architecture, and planning. The program includes field trips to sites in the city of Beijing and environs, as well as sites in other parts of China. Students may receive up to six credits through the School of Architecture. A faculty member of the School of Architecture, as well as local experts, staff the program. Fellowships are available from the Ellen Bayard Weedon Foundation. Limited travel funds are available through the Weedon East Asian Travel Grant competition sponsored by the East Asian Center.

Course Descriptions
The following courses are subject to change; certain courses are offered in alternate years or are temporarily suspended when the instructor is on leave or for other reasons. 500 level elective courses are open to students in undergraduate and graduate programs. The Course Offering Directory is available on-line at www.virginia.edu/cod.

Common Course
SARC 600 - (3) (Y)
The Common Course
The Common course analyzes the existing and potential contributions of our four disciplines to the process of contemporary urbanization. The goal is to introduce all incoming graduate students to both the range of distinct perspectives and common threads represented in the School with respect to the land, history, environmental ethics and the role of design. Through lectures and workshops, students develop skills in representation, research and communication with an understanding of the methodologies of each discipline. All Master’s students in programs two years or longer must take this course.

Architectural History
AR H 555 - (S) (3)
Field Methods in Historic Preservation
This course is dedicated to training students to “read” and record the material fabric of historic buildings. Lectures on historic materials area followed by field experience recording in descriptions, photographs and measured drawings.

AR H 570 - (2-3) (IR)
Selected Topics in Architectural History
Prerequisite: Instructor permission. Special topics pursued in a colloquium.

AR H 585 - (3) (Y)
Historical Archaeology
An introduction to analytical methods in historical archaeology, their theoretical motivation, and their practical application in the interpretation of the archaeological record of the early Chesapeake. The use of computers in the analysis of real archaeological data is emphasized.

AR H 590 - (3) (Y)
Historic Preservation Theory and Practice
Surveys the history of preservation, focusing on the changing nature of its ideals and practice. Preservation is discussed in the context of cultural history and the changing relationship between existing buildings and landscapes, and attitudes toward history, memory, and invented tradition.

AR H 592 - (3) (Y)
Community History Workshop
An in-depth historical analysis of the architecture, urban form, and planning of a selected community. Focuses on the historical significance of the built landscape as an element in, and an expression of, the social and cultural life of the community.

AR H 594 - (3) (Y)
Community Public History Seminar
Explores a variety of approaches to conveying the architectural and cultural history of a community to a diverse public constituency. Builds upon AR H 592 (Community History Workshop). Also analyzes the preservation implications of the work undertaken in collaboration with students in ARCH 881 (Community Preservation Studio).

AR H 599 - (3) (SI)
Independent Studies in Architectural History
Advanced work on independent research topics by individual students. Departmental approval of the topic is required.

AR H 703 - (3) (Y)
History of Modern Architecture
A survey of architecture (and allied arts including urban form and landscape architecture) from c.1800 to the present, emphasizing the development of the modern movement.

AR H 721 - (3) (O)
Later Medieval Architecture
The architecture of Western Europe from c. 1140 and 1500.

AR H 722 - (3) (Y)
History of Medieval Architecture
Examines the architecture of Medieval Western Europe, emphasizing the period from 1000-1400. Includes the iconography, function, structure and style of buildings, and the use of contemporary texts.

AR H 723 - (3) (O)
Early Medieval Architecture
The architecture of Western Europe from c. 800-1150.
AR H 731 - (3) (Y)
Italian Renaissance Architecture, 1400-1550
The development of classicism in Italy between 1400 and 1550, including urban form and landscape.

AR H 732 - (3) (Y)
Italian Architecture, 1550-1750
Developments in classicism in Italy between 1550 and the advent of neoclassicism, including urban form and landscape.

AR H 733 - (3) (Y)
European Classical Architecture
AR H 733 - (3) (Y)
European Classical Architecture Outside Italy, 1400-1750
The development of classicism primarily in France, England, and Germany between 1400 and 1750 including discussion of cities and landscape design.

AR H 761 - (3) (Y)
East-West Architecture
A study of cultural exchanges and interactions in architecture between East and West. Major events, influential architects like F.L. Wright and L. Kahn who contributed to the exchanges are discussed. The forms and meaning of East-West architecture are compared.

AR H 762 - (3) (Y)
Architecture of East Asia
A survey and introduction of traditional architecture and allied arts in China, Japan and Korea. Study of the main features and major monuments of East Asian architecture and landscape architecture.

AR H 765 - (3) (Y)
World Buddhist Architecture
The history of Buddhist architecture and allied arts in the Buddhist world which includes East, South, and Southeast Asia. Lecture starts from the Indian stupas and ends in Japanese Zen gardens.

AR H 767 - (3) (O)
Modern Japanese Architecture
The history of architecture in modern Japan from the Meiji period to the present. Focus on post-WW II development. Influential architects, like Tange, Kikutake, Maki, Isozaki, Kurokawa, and Ando are discussed along with urban issues.

AR H 771 - (3) (Y)
Cities in History
This lecture course introduces the history of cities around the world, from the beginnings of cities to the present, locating urban forms in their social, cultural, political and symbolic contexts.

AR H 781 - (3) (Y)
Early American Architecture
A survey of American architecture from the first European contact to 1800 including Jefferson, urban form and landscape design.

AR H 782 - (3) (Y)
Later American Architecture
A survey of American architecture from 1800 to present including landscape and urban design.

AR H 783 - (3) (Y)
Nineteenth-Century American Architecture
The development of architecture from Thomas Jefferson to Frank Lloyd Wright, along with consideration of issues in housing, landscape design, city planning, and influences from Europe.

AR H 784 - (3) (Y)
Twentieth-Century American Architecture
A survey of American architecture emphasizing the development of modernism.

AR H 800 - (3) (Y)
Methods in Architectural History
Required for candidates for the degree of Master of Architectural History. An investigation of the nature of architectural history, materials, methods, and writings.

AR H 870 - (3) (F)
Venice
The seminar will present a concise introduction to the city of Venice, seen through the lens of its architecture, painting, sculpture and landscape. Emphasis will be on the fifteenth and sixteenth centuries, which saw the most dramatic transformation of the urban fabric; this transformation will be considered in relation to style, materials, ritual, geography, economics and ideology.

AR H 873 - (3-4) (F)
Venice Research Seminar
Study of selected topics related to coursework in Venice.

AR H 920, 921 - (3) (Y)
Seminar in Medieval Architecture
Special research topics pursued in a seminar. Past topics have discussed Gothic/non-Gothic, Norman, and Monastic architecture.

AR H 930, 931 - (3) (Y)
Seminar in Renaissance Architecture
Seminar discussion of special research topics. Past topics have discussed anthropomorphism in Renaissance and Baroque architecture; Alberti’s De re Aedificatoria; Renaissance and Baroque buildings in their larger settings; the Rome of Julius II; Renaissance and Baroque classification of Buildings; Renaissance Space; Brunelleschi and Alberti; Renaissance urbanism; Rome and the Renaissance; and the Renaissance palace.

AR H 940 - (3) (Y)
Seminar in Baroque Architecture
Special topical treatment of architecture and related arts from 1600-1750.

AR H 950, 951, 952 - (3) (Y)
Seminar in Modern Architecture
Special research topics pursued in a seminar. Past sessions have discussed 19th-century Publications on the House; Le Corbusier; What was Modern?; High Victorian Design; 19th-Century European Architecture; 19th-Century Theory; Art Nouveau.

AR H 960, 961, 962 - (3) (IR)
Seminar in Non-Western Architecture
Special research topics pursued in a seminar. Past sessions have discussed East Asian Cities and the Tao of architecture.

AR H 978, 979 - (3) (SI)
Independent Studies in Architectural History
Advanced work on independent research topics by individual students. Departmental approval of the topic is required.

AR H 980, 981, 982, 983, 984, 985, 986, 988, 989 - (3) (Y)
Seminar in American Architecture
Special research topics pursued in a seminar. Past sessions have discussed the American Renaissance; Frank Lloyd Wright, Architecture of the Arts and Crafts; Jefferson’s architectural world; Skyscrapers; and Material Culture, Machine Age and Colonial Revival.

AR H 997 - (3-6) (S)
Non-Topical Research
For doctoral dissertation, taken before a dissertation director has been selected.

AR H 999 - (3-6) (S)
Non-Topical Research
For doctoral dissertation, taken under the supervision of a dissertation director.

ARCH 500 - (3) (Y)
Vicenza Program
Summer study abroad in Vicenza, Italy. Students will be introduced to Italian culture through the study of architecture, landscape architecture, and city planning. Both the formal ideals as well as the constructed reality of these three subjects will be studied through critical observation and documentation of universal conditions and critical junctures.

ARCH 501, 502 - (3) (SS)
Foundations I, II
Introduction to analysis, representation, and design of buildings, cities and landscapes.

ARCH 503 - (2) (SS)
Architectural Graphics
Descriptive geometry, perspective, and presentation techniques used in architecture.

ARCH 511 - (3) (Y)
Design Approaches to Existing Sites
Explores various approaches by designers to the contexts of their work. Examines buildings, urban infrastructure, and landscape interventions; includes lectures, discussions, and presentations by visitors and students.

ARCH 516 - (3) (Y)
Contemporary Architectural Theory
Readings and lectures covering 1966 to the present, and tracing the development of postmodernism, post-structuralism, and other current movements in architecture. Reference is made to other disciplines, the influence of criticism, the role of the media, and distinctions between theory, criticism, and style.

ARCH 518 - (3) (Y)
Ecology/Technology: Theories and Practices of Nature and Design
This course proposes two parallel investigations. First, the course places current debates and imperatives about design and the natural environment in an historical and theoretical context. Secondly, operating in parallel with historical and theoretical investigation, the
A comprehensive course in three-dimensional computer-aided design and visualization methods used in architecture and landscape architecture. The class explores design worlds that are made accessible through computer-based media. Lectures provide a theoretical framework for computer-aided design, describe current methods, and speculate on advanced methods. Workshop exercises focus on computer-based 3-D geometrical modeling, including photo-realistic and abstract methods of rendering, materials simulation, texture mapping, reflection mapping, image processing, color theory and manipulation, photomontage, lighting, animation, and combined media applications.

**ARCH 542 - (3) (Y)**  
**Digital Animation & Storytelling**  
An exploration of moviemaking through exercises in computer animation. Approximately five independently developed short animations constitute the work of the semester, culminating in a one- to five-minute long final movie project. It is anticipated that an interdisciplinary group of students admitted to the seminar will bring perspectives from across the visual and design arts. Movie projects may range in creative subject areas. Built and landscape architectural places may be experienced according to our own changing eye point of view, the transformation of light and objects, as well as the movement of other people. Story telling, whether by means of simple character animation or more complex scene description, may relate to these contextual aspects of either real or imagined environments. This subject is more exclusively focused than ARCH 545 on animation as a means to creative moviemaking.

**ARCH 544 - (2) (SS)**  
**Computer Graphics and Design Application**  
Application of geometrical modeling to design problem-solving using an array of solid modeling, geometrical modeling, rendering, and image processing tools.

**ARCH 545 - (3) (Y)**  
**Digital Moviemaking and Animation**  
Prerequisite: ARCH 541/542 or 544, or instructor permission. Visual storytelling is the basis for making movies in this hands-on production oriented class. The technology of both computer graphics animation and digital video production are explored. Themes may incorporate short character studies or visual narratives related to the built and natural environment, such as its observable symbols and images, the process of physical and conceptual assembly, transformations of light and form, spatial or formal composition, the movement of people and objects, and similar phenomena that vary over time. Students have the option to use either computer graphics animation or video production. The links between perception, representation, and design are examined within both a historical and a contemporary critical framework.

**ARCH 548 - (3) (Y)**  
**Computables of Architectural Design**  
Explores the quantitative basis and geometrical order of forms occurring in nature and architecture. Covers instructions, exercises, and examples of coding in a programming language during the first two thirds of the term. Students develop a case study in design methods that extends a CAD system as the basis for a computational project in the last third of the term. Programming knowledge is not assumed; class pace is individually adapted for students with previous experience.
ARCH 601, 602 - (6) (Y)
Design Studio
Introductory design problems in architecture for Path A students. Emphasizes developing a systemic approach to design on the land and in the city through experience with a constructional kit of parts and an awareness of the role of architectural theory and history in the design process. The faculty reviews all work in ARCH 601-602 to determine the progress and potential of each student.

ARCH 612 - (3) (Y)
Architectural Theory and Analysis
Investigates the role that ideas play in the conceiving, making, and interpretation of buildings and cities, and assists students in clarifying their own values and intentions as designers. Lectures cover a broad range of topics, with special emphasis placed on contemporary issues.

ARCH 614 - (3) (Y)
Architectural Analysis: Key Buildings of Modernism
Investigates the link between ideas and forms of significant buildings in the canon of modern architecture.

ARCH 623 - (3) (Y)
Building and Climate
This course examines the role of design in mediating between dynamic climatic forces such as wind, energy and light and the human response to the environment. Weaving discussions of fundamental principles with case studies and illustrative exercises, the course focuses on the design of the boundary between the internal and external environments.

ARCH 624 - (4) (Y)
Introduction to Structural Design
Prerequisite: College-level physics. A first course in structures for undergraduate or graduate students with degrees in other disciplines. Develops analytic and critical skills through both mathematical and visual investigation of structures. Topics include static; methods of materials; computer-based structural analysis; and the design and behavior of basic structural elements and systems.

ARCH 626 - (3) (Y)
Construction and Intention
Explores and evaluates the properties of basic building materials and construction assemblies. Introduces building construction from a variety of viewpoints, with emphasis on ecological thinking in architectural decision-making. Students will analyze and critique materials and construction systems, and how they correspond to aesthetic, technical, financial, and ethical issues.

ARCH 701 - (6) (Y)
Design Studio
Intermediate-level design problems, emphasizing analysis and synthesis of complex contextual, cultural, and constructional issues.

ARCH 702 - (6) (S)
Design Studio
Intermediate-level design problems, emphasizing structure, enclosure, life safety and building systems.

ARCH 713 - (3) (SI)
Selected Topics in Preservation
Lecture and seminar as arranged.

ARCH 721 - (3) (Y)
Structural Design for Dynamic Loads
Examines wind and earthquake loads in structural design, reviewing the vocabulary of lateral resisting systems, and the basic dynamic theories that underlie building code requirements. Explores recent developments in research and practice. Student projects include reviewing and presenting literature on lateral load research and design.

ARCH 723 - (4) (Y)
Design Development
Design Development is run as a laboratory design session twice a week for two hours. Formal and experiential design intentions are balanced with principal issues of comfort, life safety, structural stability, etc. in the resolution of a constrained design problem. The systems that shape the building are addressed at the scale of the urban block down to constructions at the scale of the hand but are made evident primarily at the scale of the building and the scale of the room.

ARCH 725 - (4) (Y)
Environmental Systems and Lighting
Study of the fundamental principles applied to the design of thermal and luminous environments as well as plumbing/drainage and electrical systems. A studio project is selected for additional analysis and design development focusing on the energy-conscious building envelope, mechanical systems selection, natural and artificial lighting schemes, and the building services layout.

ARCH 782 - (3) (SS)
Independent Study
Prerequisite: Permission of the chair.

ARCH 801, 802 - (6) (Y)
Architectural Design Option Studio
Design studies of selected architectural problems through extensive site analysis and strategic constructional rigor.

ARCH 807, 808 - (6) (Y)
Design Research Studio
Prerequisite: ARCH 897 and permission of the chair.

ARCH 821 - (3) (Y)
Design Research Seminar
Prerequisite: Permission of the chair.

ARCH 848 - (3) (Y)
Professional Practice
Introduces the primary issues involved in the practice of architecture: professional ethics, business practices, project process and management, personnel management, management of the process of producing a building, and the methods available to do so.

ARCH 880 - (3) (IR)
Teaching Seminar
Prerequisite: Permission of the chair.

ARCH 881 - (6) (S)
Community Preservation Studio
This interdisciplinary architecture and landscape architecture studio works on new and adaptive re-use design problems in a community context. Analysis of the area’s form and the narratives of its historic significance, developed in ARCH 592, provide the practical and theoretical point of departure for studio projects. Collaborative work is undertaken with students in ARCH 594.

ARCH 886 - (6) (S)
Urbanism Design Studio
Prerequisite: Instructor permission.

L AR 501, 502 - (3) (SS)
Design Foundations I, II
Prerequisite: Admission to graduate degree program in landscape architecture. Introduces the fundamentals of design to students without professional design degrees in architecture or landscape architecture.

L AR 503 - (2) (SS)
Landscape Drawing and Representation
Explores techniques of drawing, emphasizing free-hand sketching. Required of students entering the graduate landscape architecture program.

L AR 512 - (3; 4 for graduate students) (Y)
Landscape Architectural History
Examines landscape architecture as an expression of cultural values. Rather than attempt a broad survey of numerous works of a period, the lectures concentrate on a few prototypical examples. Special attention is given to ancient Egypt, 16th-century Italy, 17th-century France, 17th-century Japan, 18th-century Britain, and 17th- to 20th-century America. The comparative case study approach is complemented by primary and secondary source readings.

L AR 513 - (3) (Y)
History of American Landscape Architecture
Studies the development of American landscape architecture from the seventeenth century to the present, emphasizing seminal figures—Jefferson, Downing, Olmsted, Platt, Farrand, Jensen, and selected contemporary designers.

L AR 514 - (3) (Y)
Theories of Modern Landscape
Prerequisite: L AR 512 or instructor permission.
Examines modern built landscapes as cultural products with their own materials, codes, and concerns. Underscores landscape architecture theory’s interlocking relationship with changing societal constructions of nature, environmentalism, and the city. Focuses on exemplary built works of landscape architecture and their impact on, and debt to, specific design treatises or manifestos in light of broader cultural and theoretical practices.

L AR 520 - (3) (Y)
Healing Landscapes
Investigates various topics centered on the general theme of designed landscapes as a means of “healing” human beings. Such heal-
ing is understood in a broad sense to encompass both physical and mental infirmities. Includes a historical overview of various healing landscapes, an examination of healing practices in various cultures, and field trips to various hospitals, hospices, and out-patient facilities in the Charlottesville area.

L AR 521 - (3) (IR)
Topics in Contemporary Landscape Theory
Seminar that explores topics in contemporary landscape theory and practice through directed readings and seminar discussions. Subjects will vary from year to year, and may include design drawing and representation, gender and nature, constructs of nature (ecology, sustainability, chaos), or works of specific designers and regions.

L AR 522 - (3) (Y)
Race, Space and Culture
Offers a critical look at built environments and other conceptions of space in relation to racial and other cultural identities. Melding content and methods from cultural studies and from architecture, landscape architecture, planning, and historic preservation, sessions are centered around weekly discussions of readings, videos, drawings and photographs, and field-trips. The course changes forever the way students understand ordinary spaces.

L AR 523 - (3) (IR)
Historic Landscape Preservation
Includes readings and discussions on contemporary theory and practices for preserving historic landscapes. Evaluation of these theories and practices through a close review of a few case studies.

L AR 524 - (3) (E)
Reading the Black College Campus
Seminar that focuses on how historically black college campuses (HBCUs) encode the struggle over black education in America at the turn of the 20th century. Explores built environments as arenas of multi-cultural contests and negotiations. Introduces methods and concepts to interrogate the still predominant paradigm of interpreting built environments art-historically. Seminar readings and field trips.

L AR 525 - (3) (Y)
Urban Topographies
Seminar that explores the constructed nature of the contemporary urban landscape from the starting point of the ground. A series of landscapes that exemplify the ambiguous quality of urban ground—as both floor and roof, “terra firma” and made land—will be investigated through lectures, readings, and discussions.

L AR 526 - (3) (Y)
D.I.R.T. Seminar: Doing Industrial Research Together
Readings, lectures, and class discussions that focus on the evolving definition and reclamation technologies of the post-industrial landscape. Includes field work/visits to a variety of brownfield and industrial sites.

L AR 527 - (3) (E)
Race and American Places
Seminar that explores the ways in which multicultural struggle—particularly racial struggle—is manifested spatially in the built environments of America. Examines this through readings in cultural theory and design literature, as well as through field trips. Relates the concepts introduced in readings to the business of understanding how identity politics influences the way we design and use places around us.

L AR 528 - (3) (Y)
Landform and Urban Form in the Veneto
A historical and ecological overview of the towns and countryside of the Veneto in Northern Italy. Required for all graduate students in the Option Study in Venice.

L AR 533 - (3) (Y)
Sites and Systems
Introduces vocabulary and tools for reading, mapping, and analyzing sites. Emphasis on the watershed as an ecosystem within which sites and systems can be understood and manipulated. Explores the implications of site and systems analysis for shaping landform through grading terraces, buildings, and roads. Issues are examined through the study of existing site design precedents as well as through short mapping and design exercises. Several site visits and field trips.

L AR 534 - (4) (Y)
Earthwork
Prerequisite: L AR 533 or instructor permission. Applies concepts and principles of earthwork, land manipulation, grading, and drainage in short exercises. Introduces digital applications in a combined lecture and workshop format.

L AR 537 - (4) (Y)
Plants and Environment I
Studies plant types and characteristics in natural and designed environments. Emphasizes field identification, ecological associations and, plant shape and form.

L AR 538 - (4) (Y)
Plants and Environment II
Prerequisite: L AR 537. Continued study of plant types and characteristics in natural and designed environments. Emphasizes field identification, ecological associations, and plant shape and form.

L AR 543 - (3) (Y)
Landscape Visualization & 3-D Modeling
Prerequisite: ARCH 541 or 542. Investigates advanced computer-based techniques for landscape visualization, including 3-D geometric modeling, texture mapping and animation. A series of lectures, computer-based workshop exercises and readings of increasing sophistication focus on internal and external representations of terrain elements: landform, vegetation, water, meteorological and atmospheric effects. Photo-realistic and abstract strategies are explored to augment design investigation and presentation.

L AR 544 - (2) (SS)
Computer Graphics and Design Application
Application of landscape imaging and geometric modeling to design, using an array of solid modeling, geometric modeling, and image processing tools.

L AR 546 - (3) (IR)
Digital Media and Design Applications
Prerequisite: L AR 544 and ARCH 541; or instructor permission. The study of computing as an analytic and design tool, stressing 3-D modeling techniques and landscape applications.

L AR 601 - (6) (Y)
Design Studio I
Prerequisite: L AR 501, 502. A series of analysis, research, and introductory design projects that focus on understanding fundamental design compositional principles and developing a hand and digital drawing-based approach to exploring design problems. Emphasizes the roles of history and theory in contemporary landscape design with special emphasis on site interpretation and site structure.

L AR 602 - (6) (Y)
Design Studio II
Prerequisite: L AR 601. Continued study in the applications of fundamental design principles with special emphasis on the relationship of architecture and landscape. Design proposals are explored in multiple media—drawing, model and digital media.

L AR 701 - (6) (Y)
Design Studio III
Prerequisite: L AR 601, 602. Focuses on the public landscape in the context of the town, city, or suburban edge.

L AR 702 - (6) (Y)
Design Studio IV
Prerequisite: L AR 601, 602, 701. Explores contemporary urban public space addressing a range of spatial types, scales and sites, ranging from the urban core to infrastructure landscapes to brownfield sites.

L AR 703 - (3) (IR)
Advanced Landscape Drawing and Representation
Prerequisite: L AR 601, 602, 701. Explores ways of representing, analyzing and designing the landscape through a variety of media to include drawing, collage, image processing, model making and digital modeling.

L AR 731 - (2) (Y)
Planted Form
Prerequisite: L AR 537 and 538, or instructor permission. Develops a design vocabulary specific to individual plant architecture and collective planted form studying the structure and dynamics of native plant communities, vernacular planting systems and design precedents. Design intention and selection of plants applied through detailed plant palettes. Offered first half of semester.
L AR 732 - (2) (Y)
Regenerative Technologies
Prerequisite: L AR 736.
Introduces the design potential of remediation technologies ranging from conventional engineering to emerging bioremediation systems. Review of contaminants’ impact on soil and water, applying remediation strategies integrated with site design. Offered for half of the semester.

L AR 733 - (2) (Y)
Site Assembly I
Introduces landscape construction materials and fundamental methods for their assembly, focusing on the horizontal and vertical surface-walls and pavements. Includes case study analysis of built works to explore the expressive design potential of materials, technical concerns for performance and durability, and ethical concerns for sustainability. Meets for half of the semester.

L AR 734 - (2) (Y)
Site Assembly II
Prerequisite: L AR 733, 735, or instructor permission.
Introduces landscape construction materials and fundamental methods for their assembly, focusing on small structures. Includes case study analysis of built works to explore the expressive design potential of materials, technical concerns for performance and durability, and ethical concerns for sustainability. Meets for half of the semester.

L AR 735 - (2) (Y)
Site Work I
Prerequisite: L AR 534.
Introduces ecological and engineering principles for the design of landscape infrastructure, including storm water management and road design. Combined lecture and workshop format. Meets for half of the semester.

L AR 736 - (2) (Y)
Site Work II
Prerequisite: L AR 535.
Continued study of landscape infrastructure design. Combined lecture and workshop format. Meets for half of the semester.

L AR 801 - (6) (Y)
Design Studio V
Prerequisite: L AR 701, 702; or graduate studios in architecture.
Applies landscape architecture theory, principles, and methods to problems of urban, rural, or suburban environments and communities.

L AR 802 - (6) (Y)
Design Studio VI
Prerequisite: L AR 701, 702, 801; or graduate studios in architecture.
May be pursued in one of three ways: (1) independent studio or study under the supervision of a faculty advisor; (2) participation in an advanced collaborative studio taught by department faculty; or (3) participation in a collaborative studio in architecture. Students pursuing an independent studio project must complete L AR 821 in the fall and receive approval of their proposal from the Landscape Architecture faculty.

L AR 821 - (3) (Y)
Design Research Seminar
Introduces research techniques and methodologies. Required for students taking the spring semester independent studio project.

L AR 832 - (4) (Y)
Contract Documents and Professional Practice
Prerequisite: L AR 736.
Capstone course applying ecological and engineering techniques to the detailing and implementation of a small project, developed into a set of contract documents (drawings and specifications). Concurrent introduction to methods and models of design practice administration: proposal, contracts, project management, collaboration and licensure.

L AR 851 - (1-4) (Y)
Special Study in Landscape Architecture
Independent research on topics selected by individual students in consultation with a faculty advisor.

L AR 852 - (3) (Y)
Advanced Independent Research
Advanced independent research on topics selected by individual students in consultation with a faculty advisor.

L AR 880 - (3) (Y)
Teaching Experience
Involves serving as a teaching assistant for a course, with teaching assignments coordinated by the chair.

L AR 873 - (3-4) (F)
Venice Research Seminar
Study of selected topics related to coursework in Venice.

Urban and Environmental Planning

PLAN 502 - (4) (S)
Urban Design

PLAN 508 - (1) (Y)
Mini-Courses
A series of one-credit short courses from which students can select topics such as “basic graphics”, “CDBG strategies”, “fiscal impact assessment”, “pedestrian & bicycle planning”. Topics vary each year.

PLAN 511 - (4) (Y)
Digital Visualization for Planners
Digital technology for representing and analyzing planning data will include photo-editing, web page design, geographic information system mapping, spreadsheet modeling, and document layout and production. The major emphasis will be on two- and three-dimensional representation of spaces common to planning: streetscape, neighborhoods, communities and regions. Representation of the past, the present and prospective futures to both professional and citizen audiences will receive critical attention. Cross-listed with Plan 211.

PLAN 512 - (3) (Y)
Geographic Information Systems
Reviews the use of computers in planning, emphasizing geographic information systems for collection, analysis, and display of spatial information in urban and environmental contexts.

PLAN 513 - (3) (Y)
Advanced GIS Workshop
Students apply GIS technology to examine significant issues of land, natural resources, and the characteristics of urban development.

PLAN 522 - (3) (IR)
Planning, Budgeting, and Finance
Examines the merit of various criteria for, and processes of, making budget choices. Examines questions about who should pay, who should benefit, who should participate, and who should decide, along with the consequences of these choices.

PLAN 524 - (3) (IR)
Consensus Building, Negotiation, and Mediation
Examines the processes by which consensus can be developed, focusing on three principal elements: (1) general negotiation theory and skill development, including the concept of “principled” negotiation; (2) the conflict landscape, including government and non-government organizations; and (3) negotiation resources and opportunities, including organizations, processes, and enabling legislation.

PLAN 525 - (3) (IR)
Public Involvement
Examines both the theory and practice of public involvement in planning. Explores the planner’s responsibility to the public and techniques for effective engagement.

PLAN 529 - (3) (IR)
Special Topics in Policy Planning
Varies annually to meet the needs of graduate students.

PLAN 530 - (3) (IR)
Preservation Planning
Studies current literature on the identification, evaluation, and treatment of historic places. Develops techniques for surveying, documenting, evaluating, and planning for preservation. Analyzes current political, economic, and legal issues in preservation planning.

PLAN 534 - (3) (IR)
Urban Revitalization
Explores problems and potentials encountered in planning for older established urban neighborhoods and downtowns. These may range from market decline and physical decay to intense private reinvestment and displacement. Major topics include neighborhood change processes, the role of private lending institutions in neighborhood change, technologies for identifying economically sound housing and business opportunities in older neighborhoods, neighborhood commercial and residential revitalization techniques, financing neighborhood improvement programs, and historic and architectural preservation as a component of urban revitalization.
PLAN 540 - (3) (Y)  
Introduction to Housing and Community Development  
Provides an introduction to the housing and community development area of planning practice. Topics include the housing and development industries, neighborhood change processes, social aspects of housing and development, and contemporary programs and policy issues.

PLAN 542 - (3) (IR)  
Economic Development  
Examines the economy of a community, region or neighborhood as an essential element, in livability and sustainability. Planners engage economic development by working with the community to assess needs and opportunities, through public-private business partnerships, and in development review.

PLAN 543 - (3) (Y)  
Land Development Workshop  
Explores the process of land development from the point of view of the private land developer interacting with local governments. Includes development potential analysis, site analysis, traffic analysis, land planning, development programming, public and private service to accommodate new development, and public regulation of land development.

PLAN 544 - (3) (Y)  
Neighborhood Planning  
As the “building blocks” of cities, neighborhood plans involve citizens in addressing issues of housing, jobs, public services, education, recreation, and transportation.

PLAN 545 - (3) (IR)  
Healthy Communities  
Explores connections between the built environment and community health, with an emphasis on re-integrating planning with its original roots in public health.

PLAN 547 - (3) (IR)  
Development Dynamics  
Explores the process and financing of land development. Examines the roles of developers, investors, designers, planners, and others, identifying the objectives each have in the development decision process. Discusses the interplay and communications of what constitutes sound economics and good design.

PLAN 549 - (3) (IR)  
Special Topics in Housing and Community Development  
Sustainable Communities  
Examines sustainable communities and the environmental, social, economic, political, and design standards that underlie them. Focuses on reviewing case studies of cities, towns, and development projects that reflect principles of sustainability.

PLAN 552 - (3) (Y)  
Sustainable Planning and Design Workshop  
Students act as a consultant team to develop sustainable planning and design strategies for sites, which rotate each year.

PLAN 553 - (3) (Y)  
Environmental Policy and Planning  
Examines contemporary environmental policy and practice, including exploration of the normative-philosophical debate surrounding environmental issues. Emphasizes understanding the political and institutional framework for establishing policy and programs; exploring the action approaches to environmental planning including moral suasion, regulation, public investment, and public incentives; and case studies of environmental planning at the federal, state, and local levels.

PLAN 554 - (3) (E)  
Environmental Ethics and Sustainability  
Detailed exploration of the normative debate surrounding environmental issues. Focuses on foundations of environmental economics, the value of endangered species, concerns of future generations, appropriateness of a sustainable society, notions of stewardship, and obligations toward equity.

PLAN 555 - (3) (IR)  
Environmental Impact Assessment  
Explores environmental impact assessment processes and methods from both a theoretical and an applied perspective. The philosophy and statutory base of the assessment process are reviewed. Emphasizes the integration of the assessment process with the broader planning processes for a jurisdiction.

PLAN 557 - (3) (IR)  
Environment and Economy  
Rather then being opposites, environment & economy are both dimensions that must be addressed to achieve sustainable outcomes. This course explores these issues and students develop proposed solutions.

PLAN 558 - (3) (O)  
Coastal Planning Issues  
Explores the special characteristics of coastal island settings for their planning significance. Addresses natural hazard mitigation, wetlands, and biodiversity.

PLAN 559 - (3) (IR)  
Special Topics in Environmental Planning  
Varies from year to year to meet the needs of graduate students studying environmental planning.

PLAN 560 - (3) (Y)  
Land Use and Growth Management  
Introduces the theory and practice of land use planning and growth management as they have evolved historically and as expressed in contemporary practice. Addresses the need and rationale for land use planning as well as its tools.

PLAN 561 - (3) (Y)  
Community Planning Workshop  
Land use plans are developed, usually in conjunction with citizens, for a community undergoing change. Cross-listed with PLAN 401.

PLAN 563 - (3) (IR)  
Design of Cities  
Cities are physical artifacts that are experienced psychologically and socially. This course investigates the theories surrounding these processes to reach an understanding of humanistic urban design intentions. Experimental realities are explored through case studies, readings, and mapping exercises.

PLAN 564 - (3) (IR)  
Transit Oriented Design  
Students conduct studies and prepare a plan for high-density mixed use developments around public transportation facilities. Local officials and leaders serve as the client.

PLAN 567 - (3) (IR)  
Community Design  
Explores the issues of community design as a form of public engagement. Students are drawn from planning architecture and landscape architecture to engage community design in an inter-disciplinary context.

PLAN 569 - (3) (IR)  
Special Topics in Land Use Planning  
Varies from year to year to fill graduate students' needs in the study of land use planning.

PLAN 571 - (3) (IR)  
Landscape Preservation Workshop  
Examines the legal and practical issues involved in the conservation of rural landscapes including the settings of historic structures. Reviews the justification for landscape preservation, and the various planning strategies that could be employed to preserve landscapes, including land use regulations, tax incentives, and conservation easements. Includes case studies.

PLAN 572 - (3) (Y)  
Transportation and Land Use  
Reviews basic relationships between land use and transportation. Considers the decision process, planning principles, impact measures, and methodological frameworks for identifying and evaluating practices at regional, local, and neighborhood scale.

PLAN 577 - (3) (IR)  
Plan Implementation  
Emphasizes the use of zoning, subdivision, and other regulations to implement planning practices. Attention is given to capital facilities programming and building codes.

PLAN 593 - (1-4) (S)  
Independent Study/Fieldwork in Planning  
Prerequisite: Planning faculty approval of topic. Individual study directed by a faculty member.

PLAN 601 - (4) (Y)  
Planning Process and Practice  
A practicum/problem course focusing on the use of maps and quantitative information in the planning process. Develops familiarity with types and sources of data and assesses the relevance of data for various types of problem situations. Provides experience in producing quality professional analysis. Also develops team skills and graphic presentation abilities. A core course.

PLAN 604 - (3) (Y)  
Legal Aspects of Planning  
Addresses the law as it relates to planning practice. Includes substantial work in tradi-
tional areas of land-use law, but also deals with the law as an instrument for change. Emphasizes developing legal research skills and performing legal analysis. A core course.

**PLAN 605 - (4) (Y)**  
Methods of Planning Analysis  
Applies quantitative skills to the planning process: analyzes decision situations and develops precise languages for structuring or communicating their quantitative dimensions. Includes lectures, case studies, and reviews of statistical methods, survey research methods, census data analysis, program and plan evaluation, and computer modeling. A core course.

**PLAN 607 - (3) (Y)**  
Urban Theory and Public Policy  
Concentrates on normative and empirical urban theory central to understanding the design and effects of public policies. The theories and applications considered span a number of academic disciplines. Stresses application of theoretical perspectives to federal, state, and local policy choices. A core course.

**PLAN 609 - (3) (Y)**  
Planning Theory and Practice  
Provides a history of the intellectual and professional roots of contemporary planning theory and practice. Analyzes these roots with an eye to stimulating new perspectives and concepts for a sustainable community orientation. A core course.

**PLAN 611 - (3) (IR)**  
Planning History  
Places the evolution and development of the practice of planning in the context of urban history. Particular cities serve as case studies.

**PLAN 873 - (3-4) (F)**  
Venice Research Seminar  
Study of selected topics related to coursework in Venice.

**PLAN 898 - (3-6) (S)**  
Master’s Thesis  
A thesis is optional for the Master of Urban and Environmental Planning degree. Students should begin early to explore topics and to identify potential committee members. A guideline document is available.

### Faculty

#### Office of the Dean of the School of Architecture
Karen Van Lengen, B.A., M.Arch., Edward E. Elson Professor of Architecture, Dean  
A. Bruce Dotson, B.A., Ph.D., Associate Dean for Academics  
Ellen C. Cathey, B.A., M.Arch., Associate Dean of Students  
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- Edward R. Ford, B.S., M.Arch., Vincent and Eleanor Shea Professor of Architecture  
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- Jason K. Johnson, B.S. Arch., M.Arch.  
- Jenny V. Lovell, B.A., Dipl. in Arch.  
- John D. Quale, B.A., M.Arch.

**Distinguished Lecturer**

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