General Information
Reflecting Jefferson’s interest in architecture, courses in architectural drawing and construction were taught at the University as early as 1832. Students now, as then, benefit from the proximity of Jefferson’s classical structures and the availability of his plans and drawings for the University Grounds and other buildings. At the end of World War I, a formal curriculum in architecture began, and from the mid 1950s through the early 1970s the School of Architecture continued to expand its programs. Today a student may receive a baccalaureate in architectural history, urban and environmental planning, and a baccalaureate in science in architecture. The faculty believes that each student deserves personal attention and guidance. The School of Architecture has a small, carefully selected student body. The school seeks applicants with strong academic records and demonstrated aptitude for their chosen area of study.

A prospective student applies to one of the three undergraduate departments, but can apply to transfer from one program to another during the first or second year. The undergraduate program in architectural history is one of the few of its kind in the country. The program is directed toward developing knowledge and an understanding of the history of the built environment: architecture, cities, and landscapes. Opportunity is also provided for an introduction to the issues and practices of historic preservation. After attaining this degree, most graduates of this program go on to advanced degrees in architectural history, art history, architecture, landscape architecture, or planning.

The undergraduate program in architecture combines a solid humanities foundation with an emphasis on the role of architecture as cultural expression, and provides three years of studio experience in the development of architectural ideas and the design of built form. Most graduates of this program go on to advanced degrees in architecture and related fields.

The undergraduate professional program in urban and environmental planning is one of less than a dozen such programs in the nation accredited by the Planning Accreditation Board. The study of planning theory, processes, and methods is integrated with the contextual exploration of political and market forces, resource limitations, environmental concerns, and social needs. With the Bachelor of Urban and Environmental Planning degree, many graduates go directly into professional jobs with governmental agencies or private planning and development firms. Others go on to advanced degrees in planning, architecture, law, public administration, and business.

Address
School of Architecture
Campbell Hall
University of Virginia
P.O. Box 400122
Charlottesville, VA 22904-4122
www.virginia.edu/arch

Facilities
Campbell Hall, the School of Architecture building, was completed in 1970 and is part of a complex of buildings forming a Fine Arts Center that also includes the Department of Art, the Department of Drama, and the Fiske Kimball Fine Arts Library. Campbell Hall provides well-equipped studio work areas, exhibition areas, lecture halls, and seminar rooms. The school has two computer-graphics and computer-aided design laboratories with high resolution graphics. These facilities support software applications in computer-aided design, GIS digital mapping and modeling, site analysis, image processing, rendering, animation, structural analysis, lighting analysis, energy analysis, statistics, word processing, spreadsheet, and other areas. They also contain, Macintosh, and Windows computers with Internet access, and maintain digital voice and video links with other research laboratories in the United States and Europe. The design studio space has network connections for student-owned computers. Other research support facilities include digital modeling laboratories, a CNC fabrication laboratory, and a woodworking shop.

The Fiske Kimball Fine Arts Library, one of eleven libraries of the University of Virginia Library system, serves the School of Architecture, the Department of Art and Art History and the Department of Drama. The collections include 155,000 volumes, including technical reports, videos, CD-ROMs, and other electronic resources. We also have an image collection of 200,000 slides and a growing digital image collection. The collections cover all aspects related to architecture, landscape architecture, architectural history, urban and environmental planning, and the visual and performing arts. The Fine Arts Library provides patrons with access to all University Library resources, including government documents, maps, rare books and manuscripts, many other online resources, as well as a gateway to the Internet. Special emphasis is placed on teaching students and faculty to conduct research utilizing online resources. Reference services are provided to the entire University community and to practitioners throughout the Commonwealth and the nation.

Academic Information
The School of Architecture offers three undergraduate programs of instruction under Architectural History, Architecture, and Urban and Environmental Planning. Supporting course work is offered through the cooperation of departments in the College of Arts and Sciences and the Graduate School of Arts and Sciences.

The specific degree requirements for each program depict the general structure and the number of credits necessary for each degree. Evaluation of courses and curricula modification are continuing processes in the school. Therefore, the specific degree requirements are subject to change. 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.

Bachelor of Architectural History This four-year program is one of the few of its kind in the country. Students are offered a liberal arts education with an emphasis on the study of architectural history. This degree program offers an opportunity to study historic preservation, while offering ample opportunity for interaction with the three other departments in the school.

Bachelor of Science (Architecture) The undergraduate degree in architecture offers students an opportunity to combine a foundation in the liberal arts with course work in architecture. The preprofessional degree is useful for those who desire a foundation in the field of architecture as preparation for either continued education in a professional degree program or for employment options in architecturally related areas. Students who wish to continue in architecture would complete the requirements of a professional, accredited architecture degree at the graduate level.

Most states require that an individual intending to become an architect hold an accredited degree. There are two types of degrees that are accredited by the National Architectural Accrediting Board (NAAB): the Bachelor of Architecture, which requires a minimum of five years of study; and the Master of Architecture, which requires a minimum of three years of study following an unrelated bachelor’s degree, or two years following a related preprofessional bachelor’s degree. These professional degrees are structured to educate those who aspire to registration and licensure as architects.

The four-year, preprofessional degree is not accredited by NAAB.

Bachelor of Urban and Environmental Planning The Bachelor of Urban and Environmental Planning is a professional degree recognized by the Planning Accreditation Board. The program has a strong liberal arts
emphasis, and the student is expected to take a majority of the first two years of course work in the College of Arts and Sciences. During the final two years, the student has a wide range of professional seminars and application courses to choose from in the areas of environmental planning, land use planning and growth management, and urban development and housing policy. This course of study is designed to develop an integrative knowledge of environmental and community processes, professional skills, and leadership.

**Study Abroad** The School of Architecture encourages study abroad by offering programs in Copenhagen, Denmark, and Gotbs, Germany, as well as summer programs in Vicenza, Italy and Beijing, China. To study abroad, students must be in academic good standing. Further, to earn degree credit students must have a cumulative UVa GPA of no less than 2.500 at either the point of application or at the end of the term prior to the commencement of study abroad. These standards apply both to direct-study programs and the traditional study abroad programs under auspices of another institution or organization.

Several programs administered by the School of Architecture are competitive, and priority is given to applicants with a higher GPA. Applicants to semester and exchange programs, including Copenhagen and Gotbs, and other foreign architecture programs should have a minimum cumulative GPA of 3.500. Applicants to Summer Session programs, including Beijing and Vicenza, and J-Term programs should have at least a 3.000 GPA.

For additional departmental regulations governing participation, contact the director of programs abroad representative in Campbell Hall: (434) 922-4567.

**School Requirements**

**Residence Requirements and Transfer Credits** Prospective students must apply to one of the three undergraduate programs. All three programs place substantial emphasis on the liberal arts and include a significant number of courses offered in the College of Arts and Sciences, most of which are taken in the first two years. All three programs also normally require four years for completion and a minimum of two years as a full-time student in the School of Architecture. In some cases, summer session study at the University is also required of transfer applicants.

The School of Architecture grants transfer credit based on an analysis of the content, level, and comparability of the courses taken, the applicability of the courses to the student’s intended major and degree program, the quality of the student’s performance in the courses, and the accreditation of the institution at which the work was completed. Credit is not granted for work completed elsewhere with a grade less than C or its equivalent. The dean of the School of Architecture governs the awarding of transfer credit.

In no case are transfer credits in excess of 60 granted toward an undergraduate degree in the School of Architecture. The school does not accept pass/fail courses for transfer credit.

In exceptional circumstances, the School of Architecture dean may waive an admission or performance requirement when, in the dean’s judgment, such action best serves the intent of the program.

**Required Courses** A student who enters the School of Architecture without transfer credits must complete, at this University in Charlottesville, all prescribed courses in the curriculum for which she or he is a degree candidate. Students transferring from another college or university must complete, at this University in Charlottesville, all required courses in those subjects not completed at the time of first admission to the School of Architecture. Exceptions may be made to these requirements provided permission is granted in advance by the dean of the School of Architecture.

Candidates for a degree from the School of Architecture must complete the courses in the curriculum for which they are registered, as outlined in the subsequent pages. In addition, candidates must maintain a GPA of at least 2.000 in all courses taken at the school or University and offered for a degree.

The dean of the School of Architecture may waive a specific course requirement for a degree when, in the dean’s judgment, such action best serves the intent of the program.

**Minors**

- **Architectural History** A minor in architectural history requires 17 AR H credits, including AR H 107 and AR H 102, and 9 credits of AR H electives. No thesis is required.

- **Architecture** A minor in architecture provides students with an opportunity to develop a basic understanding of, and appreciation for, architecture as an important component of culture and the built environment. The minor requirements are under the curricula section.

- **Urban and Environmental Planning** A minor in urban and environmental planning requires 15 credits of planning courses. Students may choose from among any PLAN course, with no more than 6 credits at the 500 level. Students outside of the school should include at least one plan-making course. PLAN courses completed PLAN Minor do not count against the limit of credits college students can take outside the College.

- **Urban Studies** A minor in urban studies requires 18 credits in architecture, architectural history, landscape architecture, planning, and approved courses from the College of Arts and Sciences. Students must take ARCH 268 Lessons of the City (3), 12 credits of electives from a list of approved offerings, and ARCH 55x, Urban Studies Seminar. For additional information about the urban studies minor please see the program website, www.arch.virginia.edu/undergraduate/minor s. ARCH, PLAN, and L AR courses taken as a completed urban studies minor do not count against the limit of credits college students may take outside the College.

**Historic Preservation** A minor in historic preservation requires 15 credits, nine of which must be from among the following courses in the foundations of preservation core: AR H 590, 581, 382, 383, 384, 982; ARCH 511; L AR 512, 513; and PLAN 530. Six credits from among more specialized preservation courses are also required. These include the following: AR H 571, 585; L AR 514, 523, 527; PLAC 534, 565; and PLAN 534, 551. Any other courses will require approval of the director.

**Landscape Architecture** A minor in landscape architecture requires a minimum GPA of 3.000, and at least 15 credits in landscape architecture. Among these are: L AR 512; one course of the following: L AR 533, 537; Select at least three from the L AR 510's or L AR 520's series (other non-studio L AR courses may be taken with the permission of the Landscape Architecture Minor Advisor and the course instructor; note that many of the other courses have technical pre-requisites). Students in the Architecture program are strongly encouraged to take a 400-level studio in Landscape Architecture (subject to availability). Students outside the Architecture program are strongly encouraged to take ARCH 102 Lessons in Making (3) in addition to the courses listed above. Students in the College of Arts and Sciences must submit a "VISTAA" report to their advisor in Landscape Architecture.

Applications for these minors are available in Campbell Hall, Room 120A. Upon completion of all requirements, the signature of the respective department chair must be obtained.

**Intra University Courses** ARCH 101, 102; L AR 512; and all AR H courses are recognized as College equivalents. In addition, AR H 100, 101, 102, 180, and 323 count fully as College courses and meet the area requirement in the humanities/fine arts. For students in the School of Architecture the following course limits apply:

1. Physical Education (PHYE) courses cannot be used for degree credit.

2. A maximum of 12 degree credits will be granted for (ROTC) courses.

3. A maximum of 8 degree credits will be granted for Ensemble Music or Dance.

4. CR/NC grading option - 1 per semester, must be counted as Open elective.

**Evaluation** Because continuance in the School of Architecture depends on demonstrated ability and promise of professional and academic achievement, each student’s performance is evaluated at the end of every semester.

**Program Flexibility** Curricular requirements for the first two years of the Bachelor of Science in Architecture, Bachelor of Architectural History, and Bachelor of Urban and Environmental Planning degree programs are similar, enabling students to transfer from one program to another upon successful application.
Ownership of Student Work The School of Architecture reserves the right to retain student course work for exhibition and publication with appropriate credits. Teachers who wish to retain student work for their own purposes must gain student consent and provide adequate documentation of the work for the student.

Student Owned Computers Undergraduate students are required to own a personal computer. A list of recommended types of computers is at http://urban.arch.virginia.edu/computing/student_owned.html.

Academic Regulations

Course Load Special permission of the dean’s office is required to register for fewer than 12 credits or more than 19 credits each semester.

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.

Credit/No Credit Grades Students have the option of receiving a CR (credit) or NC (no credit) in place of the regular grades, A through F, for a given course. This option is selected when students register for courses. Instructors may deny students permission to take courses on a CR/NC basis. If this occurs, students may either change back to the regular grading option, or they may drop the courses entirely. Courses taken for CR/NC may not be used for any major or basic area requirements.

Only one three-credit course of open elective credit may be taken each semester on a CR/NC basis.

Class Standing Students are categorized by class according to the number of credits they have earned as follows: first year: 0-29 credits; second year: 30-59 credits; third year: 60-89 credits; fourth year: 90 or more credits. AP and transfer credits are included in the computation of class standing; credits not completed or completed unsuccessfully are not. Students in the design concentration are classified according to their studio level.

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 Performance, Probation, and Suspension

Academic Performance Student performance in the undergraduate architecture program’s professional subjects is reviewed by the faculty at the end of each term. Students are expected to achieve at least a C- in ARCH 201, 202, 241, 301, 302, 323, 326, 324, 401, and 541. Grades of D or F in any of these professional courses results in repeating the course. A grade of C in a studio course is grounds for reconsideration of continuing in the studio sequence. If, in the judgment of the faculty, a student has not achieved an appropriate standard of performance in a professional subject, he or she may be required to repeat one or both terms of the course before proceeding with the next level of work in this subject. There is an approved student grievance procedure relative to grades.

Participation in formal reviews is an integral part of a student’s training in architecture. There are few tenable reasons for missing a jury, and the professor must be notified of the reason for an absence. An excused absence from a review may be deemed by faculty as grounds for failure.

Students majoring in Urban and Environmental Planning or Architectural History must pass their required departmental courses with a minimum grade of C-.

Probation Students are placed on probation if they do not pass at least 12 credits of work in any semester following the first semester, or if their cumulative GPA falls below 2.000 after the completion of the first semester. Enrollment in advanced professional course work is allowed only for students with GPAs of 2.000 or better. A third probation, or probation following suspension, results in a final suspension.

Suspension Students are suspended if they do not pass at least ten credits of work in any semester following their first semester. Students who have been suspended once may appeal to the school’s faculty for readmission. However, this appeal will be considered only after the student has passed a minimum of six credits in this University’s summer session with a grade of at least C in each course. In addition, these courses must be approved by the Dean of the School of Architecture. Courses taken in the School of Continuing and Professional Studies or any other institution are not accepted for degree credit or as a basis for application for readmission. No student suspended a second time will be readmitted.

Awards and Honors

Dean’s List To be eligible for the Dean’s List of Distinguished Students at the end of each semester, students must take a minimum of 12 credits and achieve a grade point average of 3.400 or higher without failure in any course. Courses taken on a CR/NC basis may not be counted toward the 12-credit minimum. Any student receiving an F, NC, IN or NG during the semester is not eligible to be on the dean’s list.

Intermediate Honors A certificate of Intermediate Honors is awarded to the top twenty percent of those students in the School of Architecture who enter the University directly from high school or preparatory school and earn at least 60 credits of course work in their first four regular semesters. The computation is based upon the cumulative grade point average at the end of the fourth semester. No more than twelve of the 60 required credits may be earned on a CR/NC or S/U basis. Advanced placement and transfer credits do not count toward the required credits.

Theses and Commencement Honors Students who have demonstrated high academic achievement in pursuit of the bachelor’s degree are eligible for commencement honors.

Diplomas inscribed “with honors” are awarded to graduates who have earned a cumulative grade point average of at least 3.600.

Diplomas inscribed “with high honors” are awarded to graduates who have earned a cumulative grade point average of at least 3.750.

Diplomas inscribed “with highest honors” are awarded to graduates who have earned a cumulative grade point average of at least 3.900.

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

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

The Duncan T. McCrea Memorial Fund awards a prize to an undergraduate student who has demonstrated academic achievement and concern for spiritual values.

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 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.

Graduate Programs
The School of Architecture offers graduate programs leading to the degrees of Master of Architecture, Master of Landscape Architecture, Master of Architectural History, and Master of Urban and Environmental Planning.

The Admission Office of the School of Architecture has provided information describing each of these programs on the school’s web site. The M.A. and Ph.D. in History of Art and Architectural History are administered through the Graduate School of Arts and Sciences.

Departmental Curricula
Architectural History
The undergraduate curriculum provides an introduction to the discipline of architectural history within a liberal arts program. A minimum of 38 credits in architectural history is required for the major. These include ARH 101, ARH 102, and ARH 490. ARH 491 or ARTH 491 is taken in the 3rd year as a research and writing preparatory course. ARH 490 is taken during the fourth year, which allows students to research and write an independent advanced paper on a topic of their choice while working closely with a faculty member. This paper, with faculty comments, becomes part of the student’s permanent record. Students must also complete the first semester of architectural design courses ARCH 201 and ARCH 241. Appropriate preservation and art history courses may be used to fulfill architectural history requirements after consultation with academic advisor.

Bachelor of Architectural History

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<th>First Year</th>
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<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>AR H 101 History of Architecture</td>
<td>AR H 490 Major Special Study: Thesis</td>
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<tr>
<td>ENWR 110 Accelerated Academic Writing</td>
<td>History of Arch. elective</td>
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<tr>
<td>MATH 121 Approved Calculus I or Writing</td>
<td>Open electives</td>
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<tr>
<td>ARH elective (Area Requirement)</td>
<td>15-16</td>
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<tr>
<td>ARH elective (Area Requirement)</td>
<td>15-16</td>
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<tr>
<td>Foreign language</td>
<td>3-4</td>
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<tr>
<td>English elective</td>
<td>3-4</td>
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<tr>
<td>Open elective (ARCH 102 recommended)</td>
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<tr>
<td>Social Science elective</td>
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<th>Second Year</th>
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<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>ARCH 201 Intro to Arch. Design</td>
<td>AR H elective (Area Requirement)</td>
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<tr>
<td>ARCH 241 Computer Applications in Design</td>
<td>AR H elective</td>
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<td>Foreign language</td>
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<td>Open elective (ARCH 102 recommended)</td>
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<td>Social Science elective</td>
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<th>Third Year</th>
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<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>AR H elective (Area Requirement)</td>
<td>ARH seminar</td>
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<tr>
<td>AR H elective</td>
<td>(ARH 491 or ARTH 491)</td>
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<td>English elective</td>
<td>English elective</td>
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<tr>
<td>History elective</td>
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<td>Open elective</td>
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<th>Fourth Year</th>
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<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>History of Arch. electives</td>
<td>AR H 490 Major Special Study: Thesis</td>
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<tr>
<td>Open electives</td>
<td>History of Arch. elective</td>
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</table>

*Students must have a minimum of 122 credits with at least 2,000 average in order to graduate with a Bachelor of Architectural History degree.*

*If ENWR 110 or MATH is waived, any open elective may be substituted.*

*Students must attain, at a minimum, an intermediate level in one foreign language, usually by completing 12 credits of foreign language study through the 200 level. Any remaining course slots may be used for additional languages or as open electives. Those with previous language study may contact the appropriate department for placement in advanced level courses (i.e., to begin study at the University with a 200- rather than a 100-level language course). Students scoring at least 620 on a SATII foreign language achievement examination have satisfied this requirement. Those intending to continue in the field of architectural history are advised to study a second language.*

*Students should take advantage of courses in preservation and building technology when they are available.*

*Related art history courses offered by the McIntire Department of Art and related courses in the history of landscape architecture may be taken for architectural history credit with advisor permission.*

Architecture
The Bachelor of Architecture program attracts a diverse range of students with a wide range of interests that are bound together by an overriding desire to consider and construct environments of enduring value. Three different concentrations are offered: Pre-Professional concentration, Architectural Studies concentration, and Multi-Disciplinary concentration.

Admission
Transfer students are accepted into the department each fall up through the beginning of third year. Students wishing to transfer into the University’s Department of Architecture should refer to www.virginia.edu/undergradadmission. Those students already a member of the University and wishing to apply for transfer should refer to the Student Handbook at http://arch.virginia.edu/admissions/transfers.

Curriculum

### Years 1-3
The prime objective of the curricular core of the first three years is to provide a framework for the study of contemporary culture through observation, analysis, and considered design of our ongoing constructed occupation of the earth. This exploration uses design as a mode of critical inquiry from the scale of the city to the scale of the hand while maintaining its focus on the value of this effort to the community and the land, both
immediate and extended. To make this evaluation possible, the curriculum is based on the foundation of a liberal arts education formed broadly during the first two years of study while subjects directly related to making architecture are pursued in the third year.

Students entering the Department of Architecture follow one curriculum for their first three years. Starting in their second year, the strategic choices of electives will prepare the student to pursue the concentration of their choice.

### First Year

**Fall Semester**
- **ARCH 101** Lessons of the Lawn ..............3
- **ARCH 102** Lessons in Making ................3
- **ARCH 201** Intro. to Arch. Design(8) ..........6
- **MATH 121** Applied Calculus ....................3
- **ENWR 110** Academic Writing(3) ..............3
- **HUM/SCI elective** ..................3
- **Open elective** ..........................2

**Spring Semester**
- **ARCH 202** Intro. to Arch. Design(8) ..........6
- **ARCH 301** Architectural Design(6) ..........6
- **ARCH 302** Architectural Design(6) ..........6
- **ARCH 303** Architectural Design (9) ..........9
- **ARCH 401** Architectural Design(8) ..........8
- **ARCH 402** Architectural Design(8) ..........8
- **ARCH 403** Architectural Design(8) ..........8
- **Enwr 110** Academic Writing .................3
- **HUM/SCI elective** ..................3
- **Open elective** ..........................2

### Second Year

**Fall Semester**
- **ARCH 201** Intro. to Arch. Design(8) ..........6
- **ARCH 301** Architectural Design(6) ..........6
- **ARCH 302** Architectural Design(6) ..........6
- **ARCH 303** Architectural Design(6) ..........6
- **ARCH 401** Architectural Design(8) ..........8
- **ARCH 402** Architectural Design(8) ..........8
- **ARCH 403** Architectural Design(8) ..........8
- **Open elective** ..........................2

**Spring Semester**
- **ARCH 202** Intro. to Arch. Design(8) ..........6
- **ARCH 301** Architectural Design(6) ..........6
- **ARCH 302** Architectural Design(6) ..........6
- **ARCH 303** Architectural Design(6) ..........6
- **ARCH 401** Architectural Design(8) ..........8
- **ARCH 402** Architectural Design(8) ..........8
- **ARCH 403** Architectural Design(8) ..........8
- **Open elective** ..........................2

### Third Year

**Fall Semester**
- **ARCH 201** Intro. to Arch. Design(8) ..........6
- **ARCH 301** Architectural Design(6) ..........6
- **ARCH 302** Architectural Design(6) ..........6
- **ARCH 303** Architectural Design(6) ..........6
- **ARCH 401** Architectural Design(8) ..........8
- **ARCH 402** Architectural Design(8) ..........8
- **ARCH 403** Architectural Design(8) ..........8
- **Open elective** ..........................2

**Spring Semester**
- **ARCH 202** Intro. to Arch. Design(8) ..........6
- **ARCH 301** Architectural Design(6) ..........6
- **ARCH 302** Architectural Design(6) ..........6
- **ARCH 303** Architectural Design(6) ..........6
- **ARCH 401** Architectural Design(8) ..........8
- **ARCH 402** Architectural Design(8) ..........8
- **ARCH 403** Architectural Design(8) ..........8
- **Open elective** ..........................2

### Fourth Year

**Election of Concentration**
At the end of the spring semester of the third year, each student will elect a course of study for the fourth year from the following list. The choices are designed to maximize the opportunities for undergraduate study given the wide range and scope of student interests and potential career paths.

#### Pre-Professional Concentration
This Concentration is for students intent on pursuing a career as a practicing Architect. The curriculum is designed to maximize the opportunities to explore through design complex issues and conditions as well as representing intentions in material form.

**Fall Semester**
- **ARCH 401** Architectural Design(8) ..........6
  - Prerequisite: ARCH 302
  - Open elective(6)
  - Open elective(6)
  - Open elective(6)

**Spring Semester**
- **ARCH 402** Architectural Design(8) ..........6
  - Prerequisite: ARCH 401
  - Open elective(6)
  - Open elective(6)

**Architectural Studies Concentration**
This Concentration is for students interested in expanding the scope of their study to include the related design fields of landscape architecture, urban planning, and the environment to pursue these interests. Minors offered within the School of Architecture are the primary vehicle used to complete the degree requirements.

**Fall Semester**
- **Minor requirement** ................3
  - **ARCH**
  - **ARCH**
  - **ARCH**
  - **ARCH**

**Spring Semester**
- **Minor requirement** ................3
  - **ARCH**
  - **ARCH**
  - **ARCH**

### Degree Total 125

A minimum grade point average of 2.000 is required.

(1) HUM or SCI Elective: SCI "Science" electives include Natural Sciences, Mathematics, Engineering, Statistics, and Computer Science.

(2) Students scoring above 600 on the math SAT are encouraged to take MATH 311. Students who have not completed a trigonometry course prior to matriculation, or who scored below 550 on the math SAT, are required to take MATH 103 Pre-Calculus in lieu of an Open elective in the first semester.

(3) ARCH Elective: Any course designated with one of the following prefixes: ARCH, AR H, L AR, PLAN or 400 Level PLAC; ARCH Elective - Minor Related: An ARCH Elective that is directly related to the Minor Study Area.

(4) One Open elective per semester may be taken.

(5) It may be necessary to use Open electives to complete the requirements of a Minor.

(6) See separate Advising notes.

(7) ARCH Elective courses do not count towards Humanities or Sciences electives.

(8) A student must receive a grade of at least a C- to pass this course.

(9) L AR 513 may be taken in place of L AR 512.

(10) ARCH 541 may be taken in 3rd or 4th year, required for Pre-Professional (Design Concentration only).

**Note:** Students who wish to obtain the Master of Architecture professional degree apply to a graduate program. Students expecting to enter graduate studies should have maintained a 3.000 cumulative average, with a 3.500 average in the architectural design sequence. Admission into the graduate program in architecture at the University of Virginia is extremely competitive.

**Minor offered**

**Minor in Architecture**
The Minor in Architecture is offered to all students at the University. Students who complete the Minor range from those whose major is in a related field and who wish to expand the boundaries of that endeavor, to those considering graduate study in architecture.

**Fall Semester**
- **ARCH 101** Lessons of the Lawn ..............3
- **ARCH 102** Lessons in Making ................3
- **ARCH**

**Spring Semester**
- **ARCH**
- **ARCH**

**Degree Total 36**

**Multi-Disciplinary Concentration**
This Concentration is for those students interested in exploring the connection between architecture and another discipline. This discipline can be something as close as architecture as art or engineering, or it could also be a more distant field, such as business, archeology, or materials science. It is the student’s responsi-
Urban and Environmental Planning

The Program in Urban and Environmental Planning balances professional planning skills with a liberal education emphasizing interdisciplinary study. Students typically take courses in the social and natural sciences, the humanities, and in design fields that complement professional courses in planning practice and theory. Graduates either begin work in the public or private sector or go on to graduate professional studies.

The scope of the planner’s work encompasses present and future urban and environmental concerns, including such diverse issues as environmental impact, quality of life, and the public and private costs of development. Planners work in the public and private sectors in urban and rural areas. Public sector planners work for all levels of government, formulating plans to redevelop or rehabilitate downtowns and neighborhoods, develop land aesthetically and profitably, and regulate private development to protect public interests. Although planners frame long-range designs, anticipating futures 5 to 15 years away, they are also deeply involved in choosing among current projects. Private sector planners employed with land developers, utilities, banks, property management firms, industries, and other major corporations do similar work according to the particular concerns of each business. Many of these concerns are integrated with the department’s focus on sustainable community development.

Students may enter the program directly from high school, or they may transfer from another University school or other accredited universities or colleges. Usually, students transfer in their first or second year and complete the degree requirements without additional sessions. Although the first two years conform closely to the Arts and Sciences core curriculum, students who wish to transfer to the program should consult with the director of undergraduate studies. Students may apply for transfer for the spring or fall semesters. If other prerequisites have been met, it is possible for transfer students to complete the required planning courses in two years.

### Bachelor of Urban and Environmental Planning

#### First Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>ARCH</strong></td>
<td><strong>Spring Semester</strong></td>
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<tr>
<td><strong>English</strong>(1)</td>
<td><strong>Spring Semester</strong></td>
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<tr>
<td><strong>ARCH 101</strong></td>
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<tr>
<td><strong>Lessons of the Lawn</strong>(2)</td>
<td><strong>5-6</strong></td>
</tr>
<tr>
<td><strong>Math/Science</strong>(3)</td>
<td><strong>Social Science elective</strong>(4)</td>
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<td><strong>Social Science elective</strong>(4)</td>
<td><strong>Elective</strong></td>
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<tr>
<td><strong>PLAN 103</strong></td>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td><strong>Introduction to Planning</strong></td>
<td><strong>5-6</strong></td>
</tr>
<tr>
<td><strong>15-16</strong></td>
<td><strong>15-16</strong></td>
</tr>
</tbody>
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- **Spring Semester**
  - **English**(1) ................................3
  - **History of Arch**(2) ......................3
  - **Math/Science**(3) ..................3-4
  - **Social Science elective**(4) ........3
  - **Humanities**(5) ...................3

- **Second Year**
  - **Fall Semester**
    - **PLAN 211** Digital Visualization for Planners ....................4
    - **ECON 201** Microeconomics ................3
    - **Humanities elective**(6) ..........3
    - **Open elective**(2) .............3
    - **Electives**(2) .............6
    - **15-16**
  - **Spring Semester**
    - **PLAN 202** Planning Design ....................4
    - **ECON 202** Macroeconomics ....................3
    - **Statistics** .....................3
    - **Open elective**(2) .............3
    - **16-17**

- **Third Year**
  - **Fall Semester**
    - **PLAN 303** Neighborhoods, Communities, and Regions....................3
    - **PLAN 306** Land, Law and Environment ..........3
    - **Politics elective**(3) ........3
    - **Electives**(2) ................6
    - **15**
  - **Spring Semester**
    - **PLAN 305** Measuring Communities .......3
    - **Politics elective**(3) ........3
    - **Electives**(2) ................6
    - **15**

- **Fourth Year**
  - **Fall Semester**
    - **PLAN 401** Neighborhood Planning Workshop ..........3
    - **Professional elective**(3) ............3
    - **Professional elective**(3) ............3
    - **Social Science elective**(4) ............3
    - **Open elective**(3) ................3
    - **15**
  - **Spring Semester**
    - **PLAN 404** Planning in Government ..........3
    - **Planning Application Course**(5) ..........3
    - **Social Science elective**(4) ............3
    - **PLAN**
      - **PLAN elective or Fourth Year project** ......3
    - **Open elective**(3) ................3
    - **15**

Note: Students must have a minimum of 122 credits with at least a 2.000 average in order to graduate with a Bachelor of Urban and Environmental Planning degree. A minimum of C- is required of all PLAN/PLAC courses.

1. (1) English requirement is proficiency at ENWR 110 or 113.
2. (2) Majors take six credits of Politics and 12 other credits of Social Science in addition to ECON 201 and 202.
3. (3) A Professional Elective can be taken in a professional school at the 300 level or above with advisor's permission.
4. (4) Planning applications courses are designated as PLAC. These courses emphasize field work, analysis, plan development, and document preparation. PLAC 401 is designed for planning undergraduates seeking a culminating workshop.
5. (5) One Non-Western Studies included.

Course Descriptions

With faculty approval, upper-level undergraduate students may be allowed to enroll in graduate courses and offer them for elective credit. These courses are described in the Graduate Record and are offered through all four departments.

Although ARCH, AR H, L AR, and PLAN are preprofessional and professional courses, not all are restricted to School of Architecture students. If students outside the school wish to enroll in one of these courses, they should secure the approval of the faculty member offering that course. Even in professionally-oriented courses, some faculty members encourage and welcome such participation.

### Architectural History

- **AR H 100** - (3) (Y)
  - **History of Architecture: Survey**
  - The history of Western architecture from ancient times to the present.

- **AR H 101** - (4) (Y)
  - **History of Architecture Ancient-Medieval**
  - Introduction to the study of Architectural History to the Renaissance.

- **AR H 102** - (4) (Y)
  - **Renaissance to Modern**
  - Prerequisite: AR H 100 or AR H 101.
  - Introduction to the study of Architectural History from the Renaissance through Modernism.

- **AR H 112** - (3) (SS)
  - **History of Architecture**
  - Surveys architecture from the Ancient to the present.

- **AR H 180** - (3) (Y)
  - **Thomas Jefferson’s Architecture**
  - Surveys Jefferson’s architectural world with special emphasis on the Lawn.

- **AR H 203** - (3) (Y)
  - **History of Modern Architecture**
  - Surveys architecture and allied arts from the 1800 to the present, emphasizing the development of the modern movement.

- **AR H 321** - (3) (O)
  - **Later Medieval Architecture**
  - The architecture of Western Europe from c. 1140 to 1500.

- **AR H 323** - (3) (E)
  - **Early Medieval Architecture**
  - The architecture of Western Europe from c. 800-1150.
AR H 331 - (3) (Y)
Italian Renaissance Architecture 15th Century
Developments of classicism in Italy between 1400 and 1500.

AR H 332 - (3) (Y)
Renaissance Architecture 16th Century
Developments in classicism in Italy between 1500 and 1600.

AR H 333 - (3) (Y)
European Classical Architecture Outside Italy, 1400-1750
The development of classicism primarily in France, England, and Germany between 1400 and 1750.

AR H 361 - (3) (Y)
East-West Architecture
Studies cultural exchanges in architecture between East and West, emphasizing master architects such as F.L. Wright and L. Kahn.

AR H 362 - (3) (Y)
East Asia Architecture
Surveys traditional architecture in China, Japan, and Korea, focusing on the main features and monuments of East Asian and landscape architecture.

AR H 365 - (3) (Y)
World Buddhist Architecture
Studies the history of Buddhist architecture and allied arts in the Buddhist world, including East, South, and Southeast Asia. Lecture starts from the Indian stupas and ends in Japanese Zen gardens.

AR H 367 - (3) (O)
Modern Japanese Architecture
The history of architecture in modern Japan from Meiji period to the present. Focuses on post-WW II development; discusses the major influential architects such as Tange, Kikutake, Maki, Isozaki, Kurokawa, and Ando.

AR H 371 - (3) (Y)
Cities in History
An introduction to 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, with each class meeting examining a single city in depth. Cross-listed with ANTH 371.

AR H 381 - (3) (Y)
Early American Architecture
American architecture from the first European contact to the death of Jefferson. Lectures and field trips.

AR H 382 - (3) (IR)
Later American Architecture
Surveys American architecture from 1800 to the present.

AR H 383 - (3) (IR)
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 384 - (3) (Y)
Twentieth-Century American Architecture
Surveys American architecture emphasizing the development of modernism.

AR H 489 - (3) (SI)
Independent Studies in Architectural History
Advanced work on independent research topics by individual students.

AR H 490 - (3) (S)
Major Special Study: Thesis
Prerequisite: Instructor approval and departmental approval of topic. Advanced independent research projects by fourth year architectural history students.

AR H 491 - (3) (Y)
Undergraduate Seminar in the History of Architecture and Special Topics
Research seminar for majors in the department of architectural history. Topics vary.

AR H 499 - (3) (SI)
Independent Studies in Architectural History
Prerequisite: Departmental approval of topic. Advanced work on independent research topics by individual students.

AR H 555 - (3) (S)
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 archaeo logical 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 the analysis developed in AR H 592 (Community History Workshop). Analyzes the preservation implications of the work undertaken in collaboration with students in the 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.

Architecture
ARCH 101 - (3) (Y)
Lessons of the Lawn
The study of architecture as a speculation on origins is located at the conjunctive core of any liberal arts curriculum and serves as the physical armature and conceptual foundation of the University. This course is concerned with the contemporary imagination, attempting to make the discipline of architecture meaningful to a wide range of citizens in its public obligation to be constructive and optimistic in the most profoundly ethical, pragmatic, and magical of terms.

ARCH 102 - (3) (Y)
Lessons in Making
Introduces the aspects of design considered fundamental to an understanding and interpretation of architecture and the visual arts. Introduces drawing and presentation skills, and develops the precision and facility necessary for visual communication.

ARCH 201, 202 - (4, 6) (Y)
Introduction to Architectural Design
Explores the humanistic determinants of form; architecture as both experience and formal proposition; analysis and synthesis in the design process; and the communication of design intentions.

ARCH 241 - (2) (Y)
Computer Applications in Design I
The development of skills needed to represent analytical and creative ideas utilizing digital multimedia. Emphasis is placed on the exploration of computer-aided diagramming, abstraction, collage, assemblage and three-dimensional analytical modeling. In addition, weekly lectures, readings and film screenings introduce students to a broad range of topics engaging architecture, technology and culture.

ARCH 268 - (3) (Y)
Lessons of the City
This course explores the relationship between cultural values and urban form, introducing students to a body of literature and projects examining the various historical, social, political, regulatory, economic and physical conditions, which influence the design of cities. Through lecture, selected reading, class discussion, individual and group projects, and field trips this class examines the history, the-
Architectural Design

Prerequisite: ARCH 201, 202.
Analyzes architectural design conceptualization and synthesis; the relationship of building, site, and basic technology as determinants in architectural form; and the integration of various disciplines and concerns in the design of a complete building.

Architectural Theory and Ethics

Architectural theory acts as a critical discourse parallel to practice—as its conscience and provocation. Buildings, landscapes, and manifestos by architects are scrutinized for significant, recurring themes using methods from aesthetics, philosophy, and criticism. This course relies upon reading, writing, and argument to develop an analytic approach that bridges the gap between architectural knowledge and other forms of knowledge.

Design Themes of Great Cities

This course discusses the design qualities of the world’s great cities. Each session focuses on the defining characteristics of different cities such as their natural settings, public spaces, transportation systems, types of buildings, and everyday details.

Building and Climate

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.

Introduction to Structural Design

Prerequisite: Equivalent college-level physics.
A first course in structures for undergraduates to develop analytic and critical skills through both mathematical and visual investigation. Topics include statics, mechanics of materials, computer-based structural analysis, and the design and behavior of basic structural elements and systems.

Building Matters

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.

Architectural Design

Prerequisite: ARCH 301, 302.
Explores architectural design problems of complex programs and intermediate scale, emphasizing circulation, formal intent, and specialized technology in both historic and contemporary urban contexts.

Digital Moviemaking and Animation

Prerequisite: ARCH 401/402 or 444, or instructor permission.
Explores the simulation of architecture, urban design, and environmental design through movie-making. Examines parallels between the treatment of motion in movies and the treatment of motion in design. These parallels include how film makers and designers treat the space-time continuum, 3-D depth, movement, lighting, and montage. Further examines movie-making as a medium for design exploration, architectural aesthetic expression, and critical analysis of design.

Teaching Experience

Selected students lead a seminar (of 8 to 10 younger students each) for “Lessons of the Lawn” and “Lessons in Making.” All student assistants attend class lectures (for a second time) and then meet with their seminar groups weekly, leading discussions of topics and questions raised by the instructor.

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.

Foundations I, II

Introduction to analysis, representation, and design of buildings, cities and landscapes.

Architectural Graphics

Descriptive geometry, perspective, and presentation techniques used in architecture.

Design Approaches to Existing Sites

Explores various approaches by designers to the contexts of their work. Examines buildings, urban infrastructure, and landscape interventions, and includes lectures, discussions, and presentations by visitors and students.

Contemporary Architectural Theory

Readings and lectures covering 1966 to the present, and tracing the development of post-modernism, 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.

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 course involves a series of experiments in visual representation. This draws on work in cinema, digital modeling and fabrication, and traditions of scientific and statistical analysis to explore the way in which our understanding of natural and manmade systems is controlled by the way in which we can envision their existence as time-based phenomena.

Advanced Architectural Detailing

An exploration of the life of details in building. Examines the ways in which technical decisions are made, and focuses on details and constructions within particular regional contexts.

Lighting Design

Development of knowledge and skills in lighting design through the study of exemplary buildings, design exercises, case studies and analyses of lighting conditions. Considers quantitative and qualitative lighting design issues and their synthesis through design.

Microclimates

Focuses on the wild energies of sun, wind, water and earth. Students learn to perceive and to represent these “invisible” energies, and then to invent the means through which architecture can be conceived in concert with them.

Construction Practice Management

Provides future architects, engineers, lawyers, and developers with an overall understanding of the construction process for commercial, industrial, and institutional projects. Follows the history of a typical project from selection of architect to final completion of construction. Topics include design cost control, cost estimating, bidding procedures, bonds and insurance, contracts and sub-contracts, progress scheduling, fiscal controls, payment requests, submittals, change orders, inspections, overall project administration, and continuing architect-owner-contractor relationships. Lectures and related field trips.

Construction and Modernism

Discussion of the role of construction in design, focusing on industrialization and its impact on architecture in this century. Emphasizes the ideals and reality of mass production and the ways in which this has and does effect architectural form, both in a direct constructional way, and in a conceptual way.
ARCH 541 - (3) (Y)
Computer Aided Architectural Design
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 551 - (3) (Y)
Photography and Digital Media
This course seeks to give students the ability to conceive and create digital photographic imagery with control and sophistication. Topics include fundamentals of photography, color theory, digital control of visual qualities, and methods of image montage for both still images and short animations. Methods include production and presentation for both printed hard copy and for the World Wide Web.

ARCH 552 - (3) (Y)
Future Cities
Investigates topics in the digital analysis and representation of the modern metropolis. Explores the shift in architecture and urbanism from classical notions of universal order to practices informed by dynamic models of structure, form, and movement.

ARCH 553 - (3) (S)
Architectural Drawing and Sketching
Seeks to develop an increased desire for architectural exploration and discovery by providing instruction in architectural graphic notation, analytical drawing, and freehand sketching. Focuses on the ability of architectural drawing conventions and techniques to expand our understanding of natural and built form, in context.

ARCH 559 - (3) (Y)
Diagram and Detail
A seminar that focuses on the development of inventive means of representing, through the diagram, the explicit and implicit relationships between idea and form at all levels: from city to material assembly.

ARCH 563 - (2) (Y)
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. Experiential realities are explored through case studies, readings, and mapping exercises.

ARCH 567 - (3) (Y)
Theories and Practices of Modern American Urbanism
Explores the design and transformation of the American urban landscape. Encourages a broad understanding of the many forces that determined the shape and form of our cities and towns, and helps students to develop more detailed and critical models of urban analysis.

ARCH 582 - (3) (S)
Architectural Crafts
Applies design process and theory to the design and construction of furniture. Investigates jointing, finishing, and construction techniques. Experience with tools is not required.

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)
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 healing is understood in a broad sense to encom-
pass 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
Explores topics in contemporary landscape theory and practice directed readings and seminar discussions. Subjects will vary from year to year, and may include design drawing and model of representation, gender and nature, constructs of nature (ecology, sustainable, chaos), or works of specific designs and regions.

L AR 522 - (3) (Y)
Race, Space and Culture
This course 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 thought provoking readings, videos, drawings and photographs, and field-trips. The course changes forever the way students understand ordinary spaces. 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 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
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—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 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. Incorporates free-hand drawing exercises in the field and in class.

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. Incorporates freehand drawing exercises in the field and in class.

Urban and Environmental Planning

PLAN 103 - (3) (Y)
Introduction to Community and Environmental Planning
Analyzes community and environmental planning in the United States; the planning process; and sustainable communities.

PLAN 202 - (4) (S)
Planning Design
Studies the principles of design; the architecture of cities and urban design; perception of space and visual analysis; graphic presentation, including mapping techniques; and inventories, information storage, retrieval and use.

PLAN 211 - (4) (F)
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 511.

PLAN 303 - (3) (Y)
Neighborhoods, Community and Regions
Explores theories and concepts of economic, social, and cultural forces that influence urban and regional spatial structure.

PLAN 305 - (3) (Y)
Measuring Community Structure and Change
Analyzes methods used in quantitative and qualitative investigations of urban and regional settings for planning purposes.

PLAN 306 - (3) (Y)
Land, Law and the Environment
Introduces major legal issues surrounding land-use and development planning. Emphasizes developing application skills in terms of zoning, subdivision, and other land-use regulatory powers. (May be taken prior to fourth year.)

PLAN 311 - (3) (IR)
History of Cities and Planning
An overview of the planning profession with emphasis on 19th- and 20th-century American urban history.

PLAC 401 - (3) (Y)
Neighborhood Planning Workshop
Explores neighborhood, planning issues from the professionals' and citizens' perspectives. Cross-listed with PLAN 561.

PLAC 404 - (3) (Y)
Planning in Government: Decisions and Alternatives
Examines the role of planning in government decision-making. Focuses on local government, but intergovernmental aspects of planning that influence local decisions are also stressed. Studies planning processes, such as transportation, community development, and social planning.

PLAN 481, 483, 484 - (1-4) (SI)
Special Study
Elective courses offered at the request of faculty or students to provide an opportunity for internships, fieldwork, and independent study.
Consensus Building, Negotiation and PLAN 524 - (3) (IR) choices. about who should pay, who should benefit, making budget choices. Examines questions Planning, Budgeting, and Finance PLAN 522 - (3) (IR) and the characteristics of urban development. Students apply GIS technology to examine Advanced GIS Workshop PLAN 513 - (3) (Y) information in urban and environmental con- focusing on geographic information systems for collection, analysis, and display of spatial Digital Visualization for Planners PLAN 511 - (4) (Y) 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. Urban Design PLAN 502 - (4) (S) Explores methods of urban design analysis, stressing observational and representational methods. Emphasizes relationships among urban development industries, neighborhood plan- change processes, social aspects of housing and development, and housing and development programs and policy issues. Explores the problems and potentials encountered in planning for older urban neighborhoods and downtowns. 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 Planning Senior Project PLAN 493 - (3) (Y) changes; processes, social aspects of housing and development, and housing and development programs and policy issues. PLAN 542 - (3) (IR) Economic Development Explores the economy of a community, neighbor- The major emphasis will be on two- and three-dimensional representation of spaces common to neighborhoods, or region as an essential element, in 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 543 - (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 Evaluates the 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 general negotiation theory and skill development, including the concept of principled negotiation; the conflict landscape, including government and non-government organizations; and negotiation resources and opportunities, including organiza- tions, 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 fulfill graduate students' needs in the study of policy planning and analyses. 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 Examines the roles of developers, investors, and government organizations in the development process; focuses on interactions between the public and private sectors in the development process; and emphasizes the integration of social, environmental, economic, and political factors in the development process. PLAN 547 - (3) (Y) Development Dynamics 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 PLAN 551 - (3) (Y) Sustainable Communities Examines sustainable communities and the environmental, social, economic, political, and design standards that underlie them. Focuses on reviewing actual case studies of cities, towns, and development projects that reflect principles of sustainability. PLAN 552 - (3) (Y) Sustainable Planning & 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. Focus on the foundations of environmental economics, questions about 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 than being opposite, environment and 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 and island settings for their planning significance. Addresses natural hazard mitigation, wetlands, and biodiversity.

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

PLAN 560 - (3) (Y)  
Land Use Policy and Planning  
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. Experiential 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 the methodological framework for identifying and evaluating practices in action on a regional, local, and neighborhood scale.

PLAN 577 - (3) (IR)  
Plan Implementation  
Emphasizes the use of zoning, subdivision, and other regulations to implement comprehensive plans. 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.

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 Cathey, B.A., M.Arch., Associate Dean of Students
Elizabeth Fortune, B.S., M.B.A., Associate Dean for Finance and Administration
Susan Ketron, B.A., M.A., Director of Development

Department of Architecture and Landscape Architecture

Architecture  
Professors  
Warren C. Boeschenstein, B.A., B.Arch., M.Arch./U.D.
W. G. Clark, Jr., B.Arch., Edmund S. Campbell Professor of Architecture
Robin D. Dripps, B.A., M.Arch., T. David Fitz-Gibbon Professor of Architecture
Edward R. Ford, B.S., M.Arch., Vincent and Eleanor Shea Professor of Architecture
William R. Morrish, B.Arch., M.Arch./U.D., Elwood R. Quesada Professor of Architecture
Kenneth A. Schwartz, B.Arch., M.Arch
Karen Van Lengen, B.A., M.Arch., Edward E. Elson Professor of Architecture, Dean
Peter D. Waldman, B.A., M.F.A., William R. Kenan, Jr., Professor of Architecture

Associate Professors  
Craig E. Barton, A.B., B.F.A., M.Arch.
Michael J. Bednar, B.Arch., M.Arch.
Maurice D. Cox, B.Arch.
Judith A. Kinnard, B.Arch.
Earl J. Mark, B.A., M.Arch., M.S., Ph.D.
Kirk Martini, B.A., M.S., M.Arch., Ph.D.
Charles Menefee III, B. Arch.
William H. Sherman, A.B., M.Arch.
Maurice D. Cox, B.Arch.
William D. Williams, B.Arch., M.Arch.

Assistant Professors  
Anselmo G. Canfora, B.S.A.S., M.Arch.
Phoebe Crisman, B.Arch., M.Arch./U.D.
Nicholas A. de Monchaux, B.A., M.Arch.
Nataly Gattegno, B.A., M.A., M.Arch.
Sanda D. Iliescu, B.S.E., M.Arch.
Jason K. Johnson, B.S. Arch., M.Arch.
William R. Morrish, B.Arch, M.Arch./U.D., Elwood R. Quesada Professor of Architecture

Distinguished Lecturer  
Lucia B. Phinney, B.A., M.Arch., M.I.A.

Lecturers  
Pam Black, B.F.A., M.F.A.
Robert E. Crowell, B.S.
Susan Carpenter, B.S. Arch, M Arch
Cecilia M. Hernandez Villalon, B.A., M.Arch.
Joseph G. Howe, Jr., B.S.C.E., M.C.E.
Richard Price, B.S., M.D.S.
Azadeh Rashidi, B.S. Arch, M. Arch
Elizabeth Roettger, B.S., M.Arch.

Landscape Architecture

Professors
William R. Morrish, B.Arch, M.Arch./U.D., Elwood R. Quesada Professor of Architecture

Associate Professors
Julie Bargmann, B.F.A., M.L.A., Director of Landscape Architecture
K. Ian Grandison, B.S.L.A., M.A., University Professor
Elissa B. Rosenberg, B.A., M.L.A.

Assistant Professor
Caroline Westort, B.S., M.L.A., Ph.D.

Distinguished Lecturer

Lecturers
Cole Burrell, B.S., M.L.A., M.S.
Jack Douglas, B.L.A., M.L.A.
Thomas Woltz, B.S. Arch, M.Arch., M.L.A.

Department of Architectural History

Professors
Dell Upton, B.A., M.A., Ph.D.
Richard Guy Wilson, B.A., M.A., Ph.D., Commonwealth Professor of Architectural History

Associate Professors
Daniel Bluestone, B.A., Ph.D.
Lisa A. Reilly, B.A., M.A., Ph.D., Chair

Assistant Professors
Cammy Brothers, B.A., M.A., Ph.D.
John Maciuika, B.A., M.A., Ph.D.
Louis Nelson, B.A., M.A., Ph.D.

Lecturers
Yunsheng Huang, Dipl., M.S., M.A., Ph.D.
Fraser Niemann, B.A., M.A., Ph.D.

Department of Urban and Environmental Planning

Professors
Timothy Beatley, B.C.P., M.U.P., M.A., Ph.D., Teresa Heinz Professor of Sustainable Communities
William Lucy, B.A., M.A., Ph.D.
William R. Morrish, B.Arch, M.Arch./U.D., Elwood R. Quesada Professor of Architecture
Daphne G. Spain, B.A., M.A., Ph.D., James M. Page Professor of Architecture, Chair

Associate Professors
A. Bruce Dotson, B.A., Ph.D., Associate Dean for Academics
David L. Phillips, B.S.C.E., Ph.D.

Assistant Professor
Nisha Botchwey, B.A., M.C.P., Ph.D.

Lecturers
Frank Cox, B.S., M.U.P., P.E., AICP
Robert DeVoursney, Ph.D.
E. Franklin Dukes, B.A., M.S., Ph.D.
Claudette Grant, B.A., M.U.E.P.
Satyendra Huja, B.A., M.U.P.
Gary Okerlund, Jr., B.Arch., M.L.A.
Richard Price, B.S., B.Arch., M.D.S.

Retired Faculty
Warren T. Byrd, Jr., B.S., M.L.A., Professor Emeritus
Richard C. Collins, B.A., Ph.D., Professor Emeritus
James A.D. Cox, Dipl. Arch., Professor Emeritus
Roger C. Davis, B.S.Arch., Professor Emeritus
Mario di Valmarana, Dott. Arch., Professor Emeritus
Donald E. Dougald, B.A.E., M.S.A.E., Associate Professor Emeritus
Matthias Kayhoe, B.S.Arch., M.Arch., Professor Emeritus
K. Edward Lay, B.Arch., M.Arch., Professor Emeritus
William A. McDonough, B.A., M.Arch., Professor Emeritus
John L. Ruseau, B.Arch., Professor Emeritus
Theo van Groll, B.A., M.R.P., Associate Professor Emeritus
Robert L. Vickery, Jr., B.Jour., B.Arch., Professor Emeritus
H. Kenneth White, Dipl. Arch.
Dora Wiebenson, B.A., M.Arch., M.A., Ph.D., Professor Emeritus
William Zuk, B.S.C.E., M.S.E., Ph.D., Professor Emeritus