



2010-2011

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**ROGER WILLIAMS UNIVERSITY AND  
ROGER WILLIAMS UNIVERSITY SCHOOL OF LAW  
NON-DISCRIMINATION POLICY**

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*Inquiries regarding the application of this Non-Discrimination Policy may be referred to the following:*

- Mirlen A. Mal, Assistant Vice President of Human Resources,  
Roger Williams University, One Old Ferry Road, Bristol, RI 02809, Telephone: 401-254-3028;
- Assistant Secretary for Civil Rights,  
U.S. Department of Education, Office for Civil Rights, 400 Maryland Avenue, SW, Washington, DC 20202-1100,  
Telephone: 1-800-421-3481; or
- Boston Office, Office of Civil Rights,  
U.S. Department of Education, 33 Arch Street, Suite 900, Boston, MA 02110-1491,  
Telephone: 617-289-0111.

*The Equal Employment Opportunity Coordinator, Coordinator of Title IX of the Education Amendment of 1972, and Coordinator of the Age Discrimination Act of 1975 is Mirlen A. Mal, Assistant Vice President of Human Resources, Roger Williams University, One Old Ferry Road, Bristol, RI 02809, Telephone: 401-254-3028.*

*The Coordinator of Section 504 of the Rehabilitation Act of 1973 is Kenneth Osborne, Dean of Instructional System Development and Special Projects, Roger Williams University, One Old Ferry Road, Bristol, RI 02809, Telephone: 401-254-3166.*

ROGER WILLIAMS UNIVERSITY  
2010-2011

# University Catalog

The Feinstein College of Arts and Sciences (FCAS)  
The School of Architecture, Art and Historic Preservation (SAAHP)  
The Gabelli School of Business (GSB)  
The School of Education (SED)  
The School of Engineering, Computing and  
Construction Management (SECCM)  
The School of Justice Studies (SJS)  
The School of Continuing Studies (SCS)



*Please note:* Matriculated students must complete the degree requirements specified in the Catalog under which they entered the University unless they declare a later Catalog, in which case they are bound to all provisions specified unless otherwise stipulated therein. Responsibility for course selection and fulfillment of all graduation requirements rests with the student.

General information and undergraduate and graduate courses of study for academic year 2010-2011.



## SCHOOL OF ARCHITECTURE, ART AND HISTORIC PRESERVATION

### *Mission Statement*

The School of Architecture, Art and Historic Preservation brings diverse individuals together into an educational community dedicated to the creation and stewardship of the built and cultural environments. We prepare students for leadership in professional practice, service and individual creative pursuits. We achieve this through multidisciplinary educational programs set within a collegial environment guided by the principles of inquiry, conscience and tolerance espoused by the University's namesake, Roger Williams. The School exists to prepare students from many backgrounds and experiences for a variety of roles within a global society, with its continuing need for educated citizens who have the knowledge, skills and commitment to improve our surroundings.

### *Educational Philosophy*

The School is committed to balance between creation and conservation, aesthetic and technical pursuits, national and international perspectives, individual exploration and community involvement, classroom and lifelong learning. We work to achieve this balance through a variety of teaching situations – studios, lectures, seminars, internships, study abroad, field work, tutorials, public forums, required community service – which engage students, faculty, and those active in the field in close relationships.

We serve a continuum of student groups, building from a core of undergraduate, graduate and professional degree programs to include High School and Career Discovery, post-professional and continuing education opportunities. The School extends itself most fully as a center for the study of architecture, art and historic preservation by bringing people together around topics and works of international significance in public events, professional conferences and community-generated initiatives.

We view the worlds of knowledge and experience as open-ended. Education in the School therefore encourages the complementary pursuits of learning and practice, reflection and action, of accessibility and flexibility; along with a sense of perspective, adaptation, and transcendence. The skills which best serve these values incorporate intuition, critical thinking and problem solving; as well as abilities with spoken, written, graphic and spatial media. In a world of continuous technological change, which presents challenges to established cultures, these timeless values and skills endure. They exist as relevant tools for contemporary life and practice, and as a means toward advancing the cause of a humane and civilized environment for all.

### *Programs of Study*

The School of Architecture, Art and Historic Preservation offers an array of undergraduate, graduate and professional degree programs in Architecture, Visual Arts Studies, Historic Preservation, and Art and Architectural History. Undergraduate students in all majors pursue parallel University Core Curriculum and Departmental Core studies in foundation years, before expanding into optional tracks and topical areas at advanced levels. Students are encouraged to assume increasing responsibility for the choice and direction of their inquiry and career path as they advance. Architecture majors complete the Departmental Core in pursuing either the four year *Bachelor of Science degree*, or the *NAAB-Accredited Bachelor of Science/Master of Architecture* professional degree sequence, which is normally completed in a 4+2 year advisement sequence, but other advisement

options are available. Art and Architectural History majors complete a foundation of introductory and intermediate courses, before pursuing optional concentrations in Art History or Architectural History at the advanced level. Historic Preservation majors complete a departmental core before advancing into focused studies in Field Training and Professional Practice, and can also pursue a 4+1 BS/MS in Historic Preservation advisement program. Visual Arts Studies majors can complete either a Bachelor of Arts in Visual Arts Studies or a professional Bachelor of Fine Arts in Visual Arts Studies program, for those interested in a more concentration arts and studio experience. foundation requirements followed by optional primary and secondary concentrations... All students in the School are encouraged to pursue minors throughout the University, and to select within the School from minors available in each major area.

<i>MAJORS/DEGREE</i>	<i>Years Study</i>	<i>Credits</i>	<i>Professional Accreditation</i>	<i>Admissions Req.</i>
<b>ARCHITECTURE</b>				
B.S. in Architecture	4	120		Univ. Req.
B.S. in Architecture/ Master of Architecture dual degree	5 1/2-6	181	NAAB	Univ. Req., Portfolio Mid-point review
M.S. in Architecture	1-3	30-34		Univ. Req., portfolio
<b>ART</b>				
B.A. in Visual Arts Studies	4	120		Univ. Req., Portfolio
BFA in Visual Arts Studies	4	120		Univ. Req. Portfolio
<b>HISTORIC PRESERVATION</b>				
B.S. in Historic Preservation	4	120		Univ. Req.
M.S. in Historic Preservation	2	32		Univ. Req.
B.S./M.S. in Historic Preservation	5	152		Univ. Req.
<b>ART AND ARCHITECTURAL HISTORY</b>				
B.A. in Art + Architectural History	4	120		Univ. Req.
<b>MINORS</b>				
	<i>Courses</i>	<i>Credits</i>		
Architecture	5	19		
Visual Arts Studies		618		
Historic Preservation	6	18		
Art and Architectural History	6	18		

### **Facilities**

The School of Architecture, Art and Historic Preservation is housed in Bristol in two facilities on the Roger Williams University campus. Architecture, Art and Architectural History, and Historic Preservation are located in an award-winning

45,000-square-foot building that opened in 1987, that was expanded in two phases by an additional 20,000 square-feet beginning in the 2004-2005 academic year. The architects, Kite-Palmer Associates, Providence, R.I., were selected to design the original building through a national competition sponsored by the National Endowment for the Arts, and William Kite Architects were again selected for the expansion. The original building includes design studios, review and seminar rooms, Design Computing Laboratory, Architecture Library, Photography Studio and Darkroom, a Woodworking Studio/Model Shop, and Exhibition Gallery. The new expansion already features graduate architecture design studios, a well-equipped Lecture Theater, seminar / classrooms and review space, an 18-station Digital Media Lab, Building Materials and Conservation Lab Digital Manufacturing Lab, faculty offices, and a new exhibition gallery facing onto a new University quadrangle. Art studios equipped for drawing, painting, sculpture and printmaking are located in the Art building. Lecture and classroom courses are held in shared University facilities in Bristol. Roger Williams University Florence Study Abroad includes a dedicated Architecture Design Studio for 26 students at the Palazzo Alamanni, with classroom and design review space at the Palazzo Rucellai, a landmark of the Renaissance.

The School's Design Computing Laboratories are upgraded every three years, and feature 37 PC and 20 Mac computers, and high-end input and output devices. Available software packages in the Design Computing Laboratory include the complete Autodesk Suite (AutoCAD, Revit, Maya, 3D Studio Max), the Adobe Design Premium Creative Suite (Acrobat, Dreamweaver, Flash, Illustrator, InDesign and Photoshop, Form Z, Bonzai, Sketchup, Rhino, Final Cut Pro, Arch GIS, Multiframe, Flovent and CATT Acoustics packages for a variety of visualization, lighting, acoustics, energy and structural analysis activities. Students have access to video cameras, and mobile computing and projection stations, which can be relocated around the building in support of Design Studio Reviews, lectures, and class presentations. The laboratory space is able to be re-configured to accommodate individual seminar and design studio presentations. The entire Architecture Design Studio is networked for student laptop access from their desks, with the new graduate studio featuring wireless access.

The Architecture Library collection includes more than 24,000 books and 60,000 slides, a digital collection comprising over 80,000 images, and subscribes to over 200 periodicals and journals. The Historic Preservation collection, considered one of the best of its kind in New England, includes the H.R. Hitchcock Collection of American Architecture books on microfilm, the complete HABS photographic collection, and international serials. The Woodworking Studio/Model Shop is configured to accommodate studio and lab classes, and is well-equipped to serve individual student use over extended hours.

### **School of Architecture, Art and Historic Preservation Faculty**

Stephen White, AIA, *Dean and Professor of Architecture*

#### **ARCHITECTURE PROGRAMS**

Majors include the four-year *Bachelor of Science* in Architecture degree, the 4+2 Bachelor of Science/Master of Architecture professional degree sequence, the Master of Architecture sequence for those with pre-professional degrees in Architecture from other institutions, and a post-professional Master of Science in Architecture with optional concentrations in the areas of Sustainable Design, Historic Preservation, Digital Media and Urban Design. An undergraduate minor is also available.

***Distinguished Professor of Architecture and Historic Preservation:***

Hasan-Uddin Khan

***Professors:***

Edgar G. Adams, Jr., Andrew Cohen, Ulker Copur, Roseann B. Evans, Gail G. Fenske, Charles Hagenah, William L. McQueen, Eleftherios Pavlides, Jeffrey Staats, Mete Turan, Stephen White

***Associate Professors:***

Julian Bonder, Sara Butler, Luis Carranza, Patrick Charles, Gary Graham, FAIA, Nermin Kura, Rebecca Leuchak, Andrew Thurlow

***Assistant Professor:***

Robert Dermody

***ART AND ARCHITECTURAL HISTORY PROGRAMS***

The major leads to the *Bachelor of Arts* in Art and Architectural History, with concentration options in either Art History or Architectural History. Minors are available in Art and Architectural History.

***Professors:***

Ulker Copur, Gail G. Fenske

***Associate Professors:***

Sarah Butler, Luis Carranza, Nermin Kura, Rebecca Leuchak, Randall Van Schepen

***HISTORIC PRESERVATION PROGRAMS***

Majors include the *Bachelor of Science* in Historic Preservation, and the *Master of Science* in Historic Preservation. Minors are available in Historic Preservation.

***Distinguished Professor of Architecture and Historic Preservation:***

Hasan-Uddin Khan

***Professor:***

Philip Cryan Marshall

***Associate Professor:***

Sara Butler

***VISUAL ARTS STUDIES PROGRAMS***

Majors include the *Bachelor of Arts* in Visual Arts Studies (with Primary Concentrations in Painting/ Drawing/Printmaking, Sculpture, or Photography/Digital Media). Minors are available in Visual Arts Studies in the concentration areas outlined above.

***Associate Professors:***

Michael Rich, Jeffrey Silverthorne, Anne Tait

***Assistant Professors:***

Elizabeth Duffy, Murray McMillan

***Special Programs***

Degree programs in the School are supplemented by many special programs:

***Visiting Professor/Teaching Firm in Residence/Visiting Artist Programs***

In a major new initiative begun in 2007, the School of Architecture, Art and Historic Preservation established a Visiting Professorship in Architecture, an Architecture Teaching Firm in Residence, a Visiting Artist in Visual Arts Studies. This visitor program was extended across the school for 2008/09 going forward, through the establishment of a Visiting Professorship in Art + Architectural History and in Historic Preservation, with the shared goal to bring the highest quality educators and practitioners to the School in each of our disciplines. The 2007/08 Visiting Professor of Architecture was Brian Healy, AIA; Fall 2008 Carol Burns, FAIA; Spring 2009 Bruno Pfister, Summer 2009 Franco Pisani, Spring 2010 Alex Anmahian, and Argentinian architects and educators Francisco Liernur, Hernan Maldonado, and Max Rohm. The Fall 2007 Teaching Firm in Residence was Kallmann McKinnell & Wood; Spring 2008 and Fall 2009 Perkins + Will, Fall 2008 Ann Beha Architects; Spring 2009 Sasaki Associates. The 2007/08 Visiting Artist was Janet Pihlblad, Fall 2008 Tayo Heuser, Spring 2009 Deborah Aschheim, Spring 2010 Joy Garnett. 2008/09 Visiting Professors of Art and Architectural History were John Onians, and Suha Ozkan.

***Studio Critics and Lecturers***

More than 250+ Visiting Critics and Lecturers attended Architecture design studio reviews, Visual Arts Studies critiques, and coursework across the school each year, supported through donor gifts, and through the School's operational funds. The Visiting Critic program is by far the most extensive professional-academic collaboration that takes place at the School, and one of the most important.

***Community Partnerships Initiative***

The SAAHP Community Partnership Initiative links regional community groups, projects and initiatives with faculty and students through coursework in the school, for the benefit of the community, students, and the public at large. Project-based initiatives are particularly well-suited to be undertaken in Architecture design studios and in Historic Preservation research, conservation and planning workshops. The Initiative has been supported by various government agencies, community groups, the School and the University. Recent Community Partnerships have included Transit-Oriented Development planning for the towns of Rayhham, Fall River, and Taunton and New Bedford, Massachusetts led by Professor Edgar Adams and sponsored by Massachusetts' Southeastern Regional Planning and Economic Development District (SRPEDD); sustainable design supported by Foster + Partners, Masdar, United Arab Emirates and disaster planning and housing design for the Municipality of Zeytinburnu near Istanbul, Turkey, led by Professor Ulker Copur and sponsored by the Municipality; the *Wind Power Rhode Island Project* led by Professor Eleftherios Pavlides and sponsored by the RI Renewable Energy Fund (RIREF); Historic Structures Reports for the *Blackstone River Valley National Heritage Corridor* and sponsored by the *National Park Service*; Historic Structures Report on the *Robert Treat Paine House, Waltham, Massachusetts, 2004*, led by Professor Philip Marshall and funded by the Getty Conservation Trust; and the *Cardines Field Reconstruction, Newport*, led by Professor Jeffrey Staats and funded by the MacBean Foundation.

**Public Events Series**

The series introduces students, professionals and the public to the work and ideas of people celebrated in their fields, and helps establish a standard of excellence for the School through lectures, exhibitions and conferences.

**Evening Lectures**

Lecturers who have visited the School in the past several years include architects, landscape architects, artists, historians, critics and preservationists of national and international achievement. These include Ken Yeang, Mary Bergstein, Greg Pasquarelli, Jeff Talman, Nader Tehrani, Marlon Blackwell, Joy Garnett, Francisco Liernur, Joe Moore, Eeva-Liisa Pelkonen, Robert Siegel, Scott Simpson, Hernan Maldonado, Max Rohm, Francisco Sanin, Michelle Addington, Pamela Hawkes, Gerard Smulevich, Elisabeth de Bievre, Charles Hagenah, Carol Burns, Tayo Heuser, Suha Ozkan, John Onians, Brian Healy, Alexander Nemerov, Carolee Schneeman, Bruno Pfister, Yung Ho Chang, Francisco Mangado, Jeanne Gang, Flavio Janches, Maryann Thompson, Janet Pihlblad, Natasha Sandmeier, Raj Rewal, Rodrigo Perez de Arce, Tadeusz Barucki, Steve Strong, E.B. Min, Jeffrey Day, Tracey Cooper, Donald Sultan, Michael Singer, Leland Cott, Henry Moss, Antoine Picon, Antoni Muntadas, Erica Doss, Roger Ferris, Galia Solomoff, Teddy Cruz, Krzysztof Wodiczko, Elisabeth Playter-Zyberk, Suha Ozkan, Peter Eisenman, Michael Sorkin, Michael Bell, Ricardo Legoretta, Vito Acconci, Marylin Stokstad, David Macaulay, the Guerrilla Girls, Angela L. Miller, Lebbeus Woods, Ron Krueck, William Curtis, Laurie Olin, Hasanuddin Khan, Nicholas Goldsmith, Galen Cranz, Gisue Hariri, Wes Jones, Philip Robert, Steven Peterson, Gil Rosenthal.

**Endowed Historic Preservation Events Series**

A generous anonymous bequest has permitted the establishment of an endowment to support public and special events programs related to Historic Preservation. Additional support from the Felicia Fund, the Newport Restoration Foundation, the Amica Foundation, and individual donors enhance the series. Begun in Spring 1999, the Endowed Series supported Scholar-in-Residence Stephen Bond, lectures on the architecture, religion and culture of the synagogue by Tom Hubka of the University of Wisconsin, the convening of a Mainstreet Conference featuring preservationist Norman Mintz, and in 2001 the Preservation Forum held in Newport in conjunction with the nationwide Vernacular Architecture Forum. Since 2002, the fund has supported the RWU International Fellows Summer Program, focusing on interrelationships between regional and international historic preservation and architecture issues, as well Historic Preservation Endowed lectures, including Gustavo Araoz, AIA, of US/ICOMOS, Jean Carroon, FAIA, of Goody Clancy, Boston, Scott Simpson, FAIA of Kling Stubbins, Boston.

**Exhibitions and Conferences**

As part of the School's ongoing exhibition program of professional, alumni, and student work, many traveling exhibitions are brought to campus, supplementing the annual Visual Arts Studies Senior Show. Recent exhibitions have included "Movement" by Robert Siegel, "China Three Rivers Project" by Joy Garnett, "Seeking Intersections: Hernan Maldonado and Max Rohm, "Mouth to Mouth" by Jeff Talman, "Firenze XP: RWU Architecture Florence Program", "the Big Blue", Tayo Heuser; "On Memory and Forgetting"; Deborah Aschheim; "Along The Way: Charles Hagenah Paintings"; "Commonplaces", an exhibition of the work of Brian Healy, Architect; "Develop" featuring work by Yung-Ho Chang; "A Model Passion: The Historical Architectural

Models of Merrall Holt; "Between the Winding Years of Heaven" featuring the work of Visiting Artist Janet Pihlblad; "Waclaw Zaleski: Shaping Structures"; "Infrathin: Min-Day Architects"; "Policy and Design for Housing: Lessons of the Urban Development Corporation, 1968-75"; "Double Journeys: San Diego/Tijuana: Estudio Teddy Cruz"; Working Drawings/Building Books: The Work of David Macaulay; Big Plans: Michael Sorkin, Sorkin Studio, New York; architects Ricardo Legoretta, Mexico City; Estes Twombly Architects, Newport; artists Allison Saar, Ellen Driscoll, landscape architect Laurie Olin, Austrian Schools and Architects-in-Exile (sponsored by the Austrian Cultural Institute), and the Dutch architecture firm Mecanoo (sponsored by the Graham Foundation and the Netherlands-America Foundation).

**Regional Resources**

The nearby cities of Providence, Newport, Boston, and New Haven are excellent laboratories of design, and the sites of major works by 19th and 20th century architects and landscape architects such as Alvar Aalto, Walter Gropius, Louis Kahn, LeCorbusier, McKim Mead and White, Fredrick Law Olmsted, H.H. Richardson, I.M. Pei, Steven Holl, Frank Gehry, and Jose Lluis Sert. New England is an exceptional resource for the arts with many cultural institutions and extensive collections, and for preservation education as an extensively preserved historic environment. These traditional and contemporary environments are continually engaged by students in the School in field activities integrated with student coursework.

**International and National Travel Opportunities**

The School supports many special short-term travel opportunities for coursework each year to international and national sites of important for the schools majors. In recent years, this has included support for faculty-led trips to Istanbul, Barcelona, Mexico City, Athens, Paris, Egypt, Chicago, Washington DC and other sites.

**Study Abroad Opportunities**

The School of Architecture, Art and Historic Preservation currently sponsors undergraduate study abroad opportunities in Florence through a semester long study Abroad in all SAAHP majors, and a three-week Wintersession Egypt Program in Art and Architectural History, Architecture undertakes a three-week Summer Netherlands Program in alternate, even numbered years. Beginning in Fall 2010, Architecture Graduate Study Abroad will undertake a cycle of semester long study abroad programs in Buenos Aires, Beijing, Delhi, Tokyo and Istanbul in concert with leading universities and architecture firms in each location. Additionally, faculty periodically lead shorter study trips to other international sites as part of Roger Williams coursework.

**Roger Williams University Semester Abroad in Italy Program**

Beginning in Fall 1999, Roger Williams University established an Italian study abroad program in Rome, and in 2001 added a location in Florence. Students in the School's majors in Architecture, Visual Arts Studies, Historic Preservation, and Art and Architectural History may study in Florence either for a semester or a full year. The University program is based at the Institute for Fine and Liberal Arts at the Palazzo Rucellai, designed by Alberti. Facilities are supplemented for architecture students by a dedicated design studio facility. A full variety of courses in the arts and humanities, sciences, and social sciences is offered.

## Summer Programs in Bristol

### Summer Studies

Summer studies in each of the School's major and minor areas are aimed at enrichment, acceleration and special projects in the interactive environment that characterizes summer study. A program of studies is scheduled each summer for students at the introductory, intermediate and advanced levels at the Bristol campus, with study abroad opportunities in alternate summers.

### Summer Academy in Architecture

The School of Architecture, Art and Historic Preservation offers an intensive four-week Summer Academy program in Architecture for high school students who have successfully completed their junior year of study, and who are interested in considering future college level studies. The program offers a variety of studio, seminar and field experiences, extracurricular activities and field trips. Students are advised on college admission processes and portfolio development in preparation for college applications. Supervised dormitory life, with student activities programming on evenings and weekends, is included in the program.

Summer Academy students study in the School's award-winning facilities alongside undergraduate and graduate students enrolled in School's Summer Programs. They are encouraged to participate in our Summer Public Events Series inclusive of Lectures and Exhibitions, and a major summer event, the International Fellows Program, which brings world-renowned practitioners and scholars to campus for a two-day conference.

### International Fellows Program

The SAAHP International Fellows Program has focused broadly since its inception in 1999 on issues and practices dealing with the contemporary built environment. The sessions are aimed at mid-career and senior professionals who work with a distinguished international faculty. Fellows are drawn from the public and private sector, as well as from academic institutions. The program is purposely multi-disciplinary. One intensive session per year is held over a one to two day period, some of which are conducted in conjunction with other institutions, add greater diversity to the offering. Recent programs include Sustaining the Built Heritage: International Preservation and Urban Conservation (2001); Extreme Architecture: Conservation and Revitalization (2002), International Architects: Asia featuring Charles Correa (2003), Building the Future: Difference in International and Local Urban Conservation and Development (2004), Value and Vision: International Scenarios for Architecture, Urban Conservation and Development (2005), Iconic Architecture and Places (2006), and Sustainable Urban Conservation and Development (2008). The next offering is anticipated in Summer 2011.

### Architecture Programs

Architecture programs at Roger Williams University develop the broadly educated person through exposure to the liberal arts and humanities, while also offering rigorous professional training at the undergraduate and graduate levels, culminating in an accredited professional *Master of Architecture* degree.

Architecture is an integrative discipline that expresses human values through the design of the built environment. It considers a diverse range of issues at the scale of the region, site, space and detail in a way that speaks to the past, present, and possible

sustainable futures. Architecture, as a profession, engages nature and culture, art and technology, service and practice, within both the local and global realms in a way that is respectful to the diversity of our increasingly pluralistic society.

Students acquire the design and technical skills and expertise needed to be effective as collaborators and leaders working across disciplines. They develop the strategic thinking and communication skills required to tackle the diverse range of issues that influence architectural discourse and practice, from those of sustainability and urbanism to historic preservation. Students are challenged at each stage of their education to consider the consequences of their actions in a culturally and environmentally responsive manner.

Students expand their scope and knowledge through the pursuit of minors at the undergraduate level and concentrations at the graduate level. Study abroad opportunities, community engagement, and close working relationships with faculty, visiting critics, and regional and international practitioners, enhance their education. The Roger Williams University architecture program fosters a lifelong engagement with critical issues, helping students to be active in enhancing their profession, their communities, and society at large.

### Programs

The Architecture program offers pre-professional, professional and post-professional degree programs. The *Bachelor of Science* in Architecture degree program melds a liberal arts education with intensive pre-professional education leading to a professional *Master of Architecture* degree or to advanced studies in any number of related disciplines including Historic Preservation, and Art & Architectural History. The Master of Architecture program also accepts students from other pre-professional degree programs in Architecture. Students who have attended architecture-related undergraduate programs may also be considered for transfer credit in certain courses. Practitioners holding a professional degree in Architecture or those in the Master of Architecture program may also pursue a *Master of Science* degree in Architecture with concentrations in Sustainable Design, Urban Design, Digital Media and Historic Preservation.

### Professional Degree Program Accreditation

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the *Bachelor of Architecture*, the *Master of Architecture*, and the *Doctor of Architecture*. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards. *Doctor of Architecture* and *Master of Architecture* degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

Roger Williams University offers the following NAAB-accredited degree programs: M. Arch. (pre-professional degree + advanced undergraduate credits+ 38 graduate credits)

Next accreditation visit: 2012

## SPECIAL ACADEMIC REGULATIONS

### Professional Degree Threshold Review: Mid-Point and Advanced Reviews

#### Bachelor of Science/Master of Architecture 4+2 degree program

Students are required to have achieved a 2.67 cumulative GPA, and completed all required coursework in published program outlines, at the end of the five semester Architecture Core in order to continue directly toward completion of the *Bachelor of Science/Master of Architecture* professional degree sequence.

At the end of the 7th semester of study, students must successfully pass a Portfolio Review of Advanced Architectural Design Studio work. The portfolio may include other exemplary work from Architecture as well as other creative and research work.

Students pursuing the professional degree sequence subsequently complete all 500-600 level coursework at graduate academic standards, which include achieving a minimum passing grade of B- in any 500-600 level course, and a 3.0 cumulative GPA in all 500-600 level courses. Students with Senior Standing and who have achieved a 2.67 cumulative GPA may register for graduate coursework with approval of the instructor and the dean.

#### Re-application to Master of Architecture professional degree programs

Eligible students choosing not to pursue the professional degree, and those who are unsuccessful in meeting the above requirements, work to complete the four-year *Bachelor of Science* in Architecture degree, or pursue other options. Students who do not initially meet Professional Degree Threshold Review requirements may re-apply for admission to the professional degree sequence, following completion of additional coursework that improves their record, consistent with GPA and Portfolio Review levels outlined above.

#### Special Academic Regulations

##### B.S. in Architecture / Master of Architecture 4 + 2 program

The following regulations supplement standard RWU Graduate Academic Regulations.

##### Semester Course Load, Status and Aid Eligibility

To be classified as a full-time student, students must be enrolled in coursework totaling at least 9 credit hours at the graduate level per semester. To be eligible for financial aid, students must be enrolled in a minimum of 6 credit hours per semester.

*Bachelor of Science* in Architecture/*Master of Architecture* students may not enroll in coursework totaling more than 17 credit hours per semester, with a normal graduate load of 12-14 credits.

Students pursuing the 4+2 degree subsequently complete all 500-600 level coursework at graduate academic standards, which include achieving a minimum passing grade of B- in any 500-600 level course, and a 3.0 cumulative GPA in all 500-600 level courses.

##### Change of Major/Internal Transfer Requirements

Students who are undeclared or are majors in other programs of the University interested in pursuing architecture must apply for admission to the program as internal transfer candidates in either Fall or Spring semester. Interested students should contact the Dean's Office for more information.

### Grade Appeal-Studio Courses

A student may appeal a grade received in a studio course he or she believes to be inaccurate, by making a written request to the Dean. The Dean then appoints a faculty panel, usually consisting of three faculty members, to hear the appeal. The panel consults with the student as well as the instructor. The student may bring another student's work for the panel to consider for comparative purposes. The panel carries out its deliberations in private, following discussion of the work by the panel, student, and instructor. The panel has the authority to maintain the grade, or to raise it. The panel's decision is final and is communicated to the student immediately.

### Bachelor of Science in Architecture Degree Program

The four-year *Bachelor of Science* in Architecture degree serves both as a non-professional liberal arts degree, and as preparation for further graduate study in architecture and related fields. Students completing a *Bachelor of Science* in Architecture degree may apply to professional *Bachelor of Architecture* and *Master of Architecture and Doctor of Architecture* professional degree programs in order to fulfill their educational requirements toward professional registration in architecture.

#### DEGREE REQUIREMENTS

Students pursuing the four-year *Bachelor of Science* in Architecture degree program must successfully complete the following required courses and electives, in addition to the University Core Curriculum requirements.

##### Mathematics Requirement

Math 136 Precalculus is the minimum requirement of all architecture majors, and is a prerequisite for required courses in structures. Successful completion of this course also fulfills the University's Core requirement in mathematics. Students are encouraged to complete the highest level of mathematics that they place into, in recognition of the fact that some Roger Williams University minors and graduate study options at other institutions may require calculus.

##### Design

Students are required to complete the five-course Architectural Design Core Studio sequence, and one advanced architectural design studio. The Core consists of five sequential semesters addressing fundamental architectural design issues, and graphic and computer communications skills. An advanced architectural studio or a topical studio in urban issues completes the studio sequence.

ARCH	113	Architectural Design Core Studio I
ARCH	114	Architectural Design Core Studio II
ARCH	213	Architectural Design Core Studio III
ARCH	214	Architectural Design Core Studio IV
ARCH	313	Architectural Design Core Studio V
ARCH	413	Advanced Architectural Design Studio

Or

Arch	416	Advanced Topical Design Studio: Urban
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##### History/Theory

The History/Theory sequence is a combination of required introductory and intermediate courses, and advanced elective options.

AAH	121-122	History of Art and Architecture I-II
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ARCH	325	History of Modern Architecture
ARCH	322	Theory of Architecture

Students may pursue advanced History/Theory electives from a menu of Architecture Electives options.

#### ***Environment and Human Behavior***

The Environment and Human Behavior sequence is a two-part structure of required intermediate level courses, and advanced elective options.

ARCH	321	Site and Environment
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Students may pursue advanced Environment and Human Behavior electives from a menu of Architecture Electives options.

#### ***Technical Systems***

The Technical Systems sequence is intended to make students aware of practical and theoretical aspects of the interrelationships between materials, building systems, and structures, an understanding of which is essential for both functional and imaginative design.

ARCH	335	Structure, Form and Order
ARCH	231	Construction Materials and Assemblies I

and one of the following:

ARCH	332	Acoustics and Lighting
ARCH	333	Mechanical and Electrical Equipment of Buildings

Students may pursue advanced Technical Systems courses from a menu of Architecture Elective options.

#### ***Practice and Professional Development***

ARCH	101	Foundations of Architecture
VARTS	101	Foundations of Drawing
ARCH	287	Introduction to Computer Applications in Design

Students may pursue advanced Practice and Professional Development courses from a menu of Architecture Elective options.

#### ***Architecture Electives***

Completion of one Architecture Elective is required for graduation. Architecture Electives complement required coursework, providing an enhanced knowledge base in areas of faculty expertise. Students are also eligible to register for graduate level Architecture Electives during their senior year

ARCH	430	Special Topics in Architecture
ARCH	461	Introduction to Landscape Architecture
ARCH	472	Modern Urban Design Theory
ARCH	475	Frank Lloyd Wright: A Life's Work
ARCH	477	Architecture in Context
ARCH	478	Dutch Architecture: The Enduring 20th Century Legacy
ARCH	484	Construction Estimating and Scheduling
ARCH	487	Digital Modeling
ARCH	488	Computer Applications for Professional Practice
ARCH	492	Writing About Architecture

300 level or above Historic Preservation Courses

500 level or above Architecture Electives (with permission)

#### ***Electives***

Completion of two electives, is required for graduation. Students are advised to apply one of these electives to expand the University Core Concentration into a minor.

Students are free to choose from the University's course offerings to satisfy this requirement. Pre-requisites for MATH 136 Precalculus (MATH 101 Principles of Algebra, Math 107 Intermediate Algebra, Math 117 College Algebra) (and prerequisites for WTNG 102 Expository Writing, WTNG 100 Introduction to Academic Writing) will not count as electives toward the Bachelor of Science in Architecture degree.

#### ***Bachelor of Science in Architecture / Master of Architecture 4+2 Degree Program***

The *Bachelor of Science in Architecture/Master of Architecture 4+2* degree program is an NAAB-accredited Architecture professional degree sequence. Students can expect to complete the degree program sequence through a program of five and one half or six years of study, though students may accelerate through summer study.

#### ***DEGREE REQUIREMENTS***

Students pursuing the *Bachelor of Science in Architecture/Master of Architecture* professional degree program must successfully complete the following required courses and electives, in addition the University Core Curriculum requirements. Students complete a minimum of 10 500-600 level courses and 38 credits at the graduate level.

#### ***Mathematics Requirement***

Math 136 Precalculus is required of all architecture majors, and is a prerequisite for required courses in the structures sequence. Successful completion of this course also fulfills the University's Core requirement in mathematics. Students are encouraged to complete the highest level of mathematics that they place into, in recognition of the faculty that some Roger Williams University minors and graduate study options at other universities may require calculus.

#### ***Design***

The design studio sequence consists of core studios, advanced undergraduate studios, comprehensive design studio, graduate studios, and a final graduate thesis design studio. The Core consists of five sequential semesters addressing fundamental architectural design issues, and graphic skills. This is followed by one semester of advanced architectural design studio and one advanced topical studio in urban issues. At the graduate level, students undertake comprehensive design studio, and two additional graduate topical studios, additional advanced topical studios, before exploring a thesis topic of their own choosing for the final semester of the professional degree program.

ARCH	113	Architectural Design Core Studio I
ARCH	114	Architectural Design Core Studio II
ARCH	213	Architectural Design Core Studio III
ARCH	214	Architectural Design Core Studio IV
ARCH	313	Architectural Design Core Studio V
ARCH	413	Advanced Architectural Design Studio (three studios)
ARCH	416	Advanced Topical Design Studio: Urban
ARCH	513	Comprehensive Project Design Studio
ARCH	515	Graduate Architectural Design Studio (two studios)
ARCH	613	Graduate Thesis Design Studio

**History/Theory**

The History/Theory sequence is a three-part structure of required introductory and intermediate courses, and advanced elective options. Students complete a two-course introductory survey of Art and Architectural History, followed by a History of Modern Architecture and Theory of Architecture requirements, one intermediate course in the History of Architecture chosen from a broad menu of options, and one advanced elective option:

AAH	121-122	History of Art and Architecture I-II
ARCH	325	History of Modern Architecture
ARCH	322	Theory of Architecture

and one of the following Intermediate Level Course Options

ARCH	324	Evolution of Urban Form
ARCH	327	History of American Architecture
ARCH	328	Renaissance Architecture in Perspective
ARCH	329	History of Landscape Architecture
AAH	321	Arts and Architecture in the Classical World
AAH	322	Arts and Architecture in the Medieval World
AAH	323	Arts and Architecture in the Islamic World
AAH	330	Topics in Art and Architectural History
HP	341	Pre- Industrial America
HP	342	Industrial America

and one of the following:

ARCH	475	Frank Lloyd Wright: A Life's Work
ARCH	478	Dutch Architecture: The Enduring 20th Century Legacy
ARCH	530	Special Topics in Architecture
ARCH	573	Modernism in the Non-Western World: A Comparative Perspective
ARCH	576	Theoretical Origins of Modernism
ARCH	577	The American Skyscraper
HP	351	History and Philosophy of Historic Preservation
HP	391	Architecture and Historic Preservation Abroad

**Environment and Human Behavior**

Environment and Human Behavior coursework develops students skills and understanding relative to environment, social aspects and research methodology.

ARCH	321	Site and Environment
ARCH	522	Environmental Design Research

**Technical Systems**

The technical systems sequence gives students an essential understanding of the practical and theoretical interrelationships between the structural, environmental and enclosure systems of a building, and introduces them to various building materials, assemblies and services. Students complete seven required courses, including a three course structures sequence and two courses each in Construction Materials and Assemblies and in Environmental Systems.

ARCH	335	Structure, Form and Order
ARCH	434	Design of Structures I
ARCH	435	Design of Structures II
ARCH	231-331	Construction Materials and Assemblies I and II
ARCH	332	Acoustics and Lighting
ARCH	333	Mechanical and Electrical Equipment of Buildings

**Practice and Professional Development**

Practice and Professional Development coursework develops students' communication skills and understanding of the role of architects within society and in relation to the various participants in the building process. This sequence culminates with the Graduate Thesis Seminar, where students are asked to formulate an independent architectural investigation that engages a set of issues that further their understanding of Architecture as a cultural medium and as a profession.

VARTS	101	Foundations of Drawing
ARCH	101	Foundations of Architecture
ARCH	287	Computer Applications in Design
ARCH	488	Computer Applications in Professional Practice
ARCH	542	Professional Practice
ARCH	641	Graduate Thesis Research Seminar

**Architecture Electives**

In addition to the elective options outlined above in History/Theory, the completion of four Architecture Electives is required for graduation, with a minimum of three at the Graduate Level.

**Undergraduate Architecture Electives (one required or four at the graduate level)**

ARCH	430	Special Topics in Architecture
ARCH	461	Introduction to Landscape Architecture
ARCH	475	Frank Lloyd Wright: A Life's Work
ARCH	477	Architecture in Context
ARCH	478	Dutch Architecture: The Enduring 20th Century Legacy
ARCH	484	Construction Estimating and Scheduling
ARCH	487	Digital Modeling
ARCH	492	Writing About Architecture

300 Level or Above Historic Preservation courses

**Graduate Architecture Electives (a minimum of three required):**

Students are encouraged to look at these electives as a means to explore various concentrations available within the MS in Architecture program. Graduate electives are grouped in the areas of Sustainable Design, Urban Design, Digital Media and Historic Preservation. In addition some multidisciplinary Core MS in Architecture courses are available as Architecture Electives.

*Sustainable Design:* Arch 521 Sustainable Design Seminar, Arch 593 Sustainable Paradigms, Arch 594 Urban Ecology, Arch 533 Detailing the High-performance Envelope, Arch 535 Introduction to Proactive Simulation, Arch 536 Special Topics in Sustainable Design.

*Urban Design:* Arch 572 Urban Design Theory, Arch 594 Urban Ecology, Arch 524 Evolution of Urban Form, Arch 529 History of Landscape Architecture, 561 Landscape Architecture, HP 682L Preservation Planning Workshop, Arch 537 Special Topics in Urban Design.

*Digital Media:* Arch 587 Advanced Computer Applications in Design, Arch 586 Processing, Arch 588 Digital Manufacturing, Arch 589: 4-D (Four Dimensional), Arch 535 Intro to Proactive Simulation, Arch 538 Special Topics in Digital Media.

*Historic Preservation:* HP 501 Fundamentals of Historic Preservation, HP 525 Preservation Economics, HP 681L: Historic Rehabilitation Workshop, HP 582L Architectural Conservation, HP 526: Preservation Law and Regulation, HP 682L Preservation Planning Workshop.

*Core MSc in Architecture courses:* ARCH 606 Field Research Seminar, ARCH 616: Collaborative Workshop. Misc.

*Graduate Architecture Electives:* Arch 574 Regionalism in Architecture, Arch 581 Construction Contract Documents, Arch 530 Special Topics in Architecture.

### **Master of Architecture and & Master of Science in Architecture with Concentration options**

The elective categories above reflect the concentrations available within the Master of Science degree option. Students in the Master of Architecture program may apply six credits from that degree toward a Master of Science degree.

#### **Electives**

Completion of two electives outside of the major is required for graduation. Students are advised to apply one of these electives to expand the University Core Concentration into a minor.

Students are free to choose from the University's course offerings to satisfy this requirement. Prerequisites for MATH 136 Precalculus (MATH 117 College Algebra) and prerequisites for WTNG 102 Expository Writing (WTNG 100 Introduction to Academic Writing) will not count as electives toward the *Bachelor of Science/Master of Architecture* degree sequence .

### **Architecture Minor**

Students wishing to explore the ideas and forms associated with architecture, yet not wishing to embark on the major, may elect to minor in this discipline.

ARCH	101	Foundations of Architecture
ARCH	113-114	Architectural Design Core Studio I and II
AAH	121-122	History of Art and Architecture I and II

### **Art and Architectural History**

#### **Mission Statement**

The Art and Architectural History curriculum provides students with a comprehensive background for understanding both the visual arts and architecture in relation to society, culture, and history. The program employs a multidisciplinary approach to visual culture, drawing from the programs within the School of Architecture, Art, and Historic Preservation as well as from subject areas of anthropology, psychology, philosophy, and cultural studies. The synergy between these disciplines promotes awareness of the interconnectedness of the arts and of the close connection of materials and process with meaning. In addition to its focus on the built environment, the Art and Architectural History program provides an opportunity for students to study the philosophical, aesthetic, and social meanings of many other kinds of visual cultural products throughout history and to develop the intellectual tools necessary to engage in analytical and critical study of works of art and architecture. The program prepares students to pursue an academic or professional career within the field.

The program makes use of the rich museum and gallery environment of the region for course work as well as for student internships. Art and Architectural History courses offered through the Roger Williams University Florence Study Abroad Program are an exciting and valuable option in completing the major. Students majoring in Art and Architectural History are also encouraged to take those courses relevant to the history of cultures offered in the Feinstein College of Arts and Sciences.

The Art and Architectural History major is complementary to others offered in the School. Compact major requirements also allow students to easily complete a double major in any number of liberal arts fields, or certification program in Elementary or Secondary Education. The program prepares students for graduate study in Art and Architectural History, Museum Studies, Education, and careers in teaching, museum work, art conservation or the commercial art world.

All Art and Architectural History majors will be required to complete the equivalent of two years of a modern foreign language before graduating. The two years of language study may be completed by taking four semesters of one foreign language at RWU, or through a proficiency exam placing the student at the appropriate level of study to fulfill the language requirement.

#### **DEGREE REQUIREMENTS**

The program leading to a *Bachelor of Arts* in Art and Architectural History is a 12-course, 36-credit major. The courses build upon a two-course introductory sequence, a seven-course intermediate level, two advanced seminars and a senior seminar or thesis. This flexible program is tailored to the particular interests and goals of each student who may, beginning at the intermediate level, develop a six-course concentration in either Art History or Architectural History.

All Art and Architectural History majors will be required to complete the equivalent of two years of a modern foreign language before graduating. The two years of language study may be completed by taking four semesters of one foreign language at RWU, or through a proficiency exam placing the student at the appropriate level of study to fulfill the language requirement.

#### **Introductory Courses**

AAH	121-122	History of Art and Architecture I-II
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#### **Intermediate Courses**

AAH	305	Theory and Methods of Art and Architectural History
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*And six from the following menu of options*

AAH	311	History of American Art
AAH	312	History of Modern Art
AAH	313	History of African Art
AAH	317	Giotto to Leonardo
AAH	318	Michelangelo to Vasari
AAH	319	History of Italian Renaissance Art
AAH	320	The Art of Buon Fresco
AAH	321	Art and Architecture in the Classical World
AAH	322	Art and Architecture in the Medieval World
AAH	323	Art and Architecture in the Islamic World
ARCH	324	Evolution of Urban Form
ARCH	325	History of Modern Architecture I: The Enlightenment to the Avant-Garde
ARCH	326	History of Modern Architecture II: 20th Century

ARCH	327	History of American Architecture
ARCH	328	Renaissance Architecture in Perspective
ARCH	329	History of Landscape Architecture
AAH	330	Topics in Art and Architectural History
HP	341	Pre-industrial America
HP	342	Industrial America

### Advanced Seminars

Two of the following:

AAH	421	Issues in Contemporary Art
AAH	423	Nature and Art
AAH	430	Special Topics in Art and Architectural History
AAH	530	Special Topics in Art and Architectural History
ARCH	472	Modern Urban Design Theory
ARCH	475	Frank Lloyd Wright: A Life's Work
ARCH	478	Dutch Architecture: An Enduring 20th Century Legacy
ARCH	573	Modernism in the Non-Western World
ARCH	576	Theoretical Origins of Modernism
ARCH	577	The American Skyscraper

400 level courses in Art and Architectural History from the Institute for Fine and Liberal Arts of the Palazzo Rucellai.

and

AAH	497	Senior Seminar
or		
AAH	450	Senior Thesis

### Optional Concentration

Students may elect to pursue a six-course concentration from the intermediate courses and advanced seminars in either Art History or Architectural History.

Art History Concentration: six from AAH 311, AAH 312, AAH 313, AAH 317, AAH 318, AAH 319, AAH 321, AAH 322, AAH 323, AAH 330 (relevant topics), AAH 421, AAH 423, AAH 430 (relevant topics)

Architectural History Concentration: six from ARCH 324, ARCH 325, ARCH 326, ARCH 327, ARCH 328, ARCH 329, AAH 321, AAH 322, AAH 323, AAH 330 (relevant topics), HP 341, HP 342, AAH 423, AAH 430 (relevant topics), Arch 472, Arch 475, ARCH 530 (relevant topics), ARCH 573, ARCH 576, ARCH 577

### The Art and Architectural History Minor

AAH	121-122	History of Art and Architecture I-II
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Three Intermediate Courses from the Art and Architectural History Major

One Advanced Seminar from the Art and Architectural History Major

### Historic Preservation

Roger Williams University offers an undergraduate *Bachelor of Science* in Historic Preservation degree, along with a *Master of Science* in Historic Preservation of one year duration to students holding an undergraduate degree in historic preservation, and of two year duration for those who have completed an undergraduate degree in another field.

The mission of the Historic Preservation Program is to provide an education that empowers individuals to work with and to help others while realizing their own personal and professional potential. Classes, community-based work and field experience specific to preservation are coupled with a strong liberal-arts education. To mirror the environment we help preserve and to prepare students for diverse careers, the program couples a multi-disciplinary approach with a rigorous core of field-based professional preservation offerings.

Students gain an understanding of the field in the greater context of history; the built environment; cooperative community engagement; work with allied professions; on-site documentation, archival research, and design; philosophy, standards and practice. The program introduces research and documentation, architectural conservation, preservation planning and heritage management. These are put into practice through field-based workshops, assignments and internships—all in partnership with area and national organizations. In recognition of the multi-disciplinary nature of the field, historic preservation electives are offered across multiple academic disciplines.

### DEGREE REQUIREMENTS

Undergraduate majors successfully complete all University Core Curriculum requirements, required coursework in the major, and sufficient electives to total a minimum of 120 credits. Students also complete a non-credit internship to fulfill the University's Feinstein Service Learning Requirement.

Major requirements are divided into four program areas: foundation courses; building styles, technology and culture; field training and professional practice; and Historic Preservation electives. Required foundation courses and upper-level program electives are available from select courses throughout the University.

### Foundation Courses

ARCH	101	Foundations of Architecture
HIST	151	United States History I: From Colonial Times to Reconstruction
HIST	152	United States History II: Reconstruction to the Present
HP	150	Introduction to Historic Preservation
HP	175	Historic Building Documentation
HP	202	Principles of Preservation Planning
HP	301	Principles of Architectural Conservation

### Building Styles and Technology

AAH	121	History of Art and Architecture I
AAH	122	History of Art and Architecture II
HP	160	American Buildings in the Western Tradition
HP	341	Pre-Industrial America
HP	342	Industrial America

### Field Training and Professional Practice

HP	224L	Archival Research
HP	351	History and Philosophy of Historic Preservation
HP	382L	Architectural Conservation Lab
HP	384L	Preservation Planning Lab
HP	452	Senior Seminar or HP 451 Senior Thesis Project
HP	525	Preservation Economics

**Historic Preservation Electives**

Students complete three courses from the following:

ARCH	231	Construction Materials and Assemblies I
ARCH	287	Introduction to Computer Applications in Design
ARCH	324	Evolution of Urban Form
ARCH	325	History of Modern Architecture I
ARCH	326	History of Modern Architecture II
ARCH	327	History of American Architecture
ARCH	329	History of Landscape Architecture
ARCH	430	Special Topics in Architecture
ANTH	380	Culture Change and Development
CIS	350	Geographic Analysis of Data: An Introduction to GIS
CNST	116	Computer Applications for Construction
CNST	130	Plans, Specifications and Building Codes
ECON	330	Economics of Developing Countries
HIST	351	Frontier History in America
HIST	354	United States Environmental History
HIST	360	Studies in United States History
HIST	390	Great Cities in History
HP	391	Architecture and Historic Preservation Abroad
HP	530	Special Topics in Historic Preservation
MGMT	200	Management Principles
MGMT	315	Small Business Management
MGMT	333	Project Management Home Improvement Project
MGMT	33	Negotiations
PLS	120	Law in Contemporary Society
PLS	200	Environmental Law
PSYCH	214	Group Dynamics
PSYCH	255	Social Psychology
PA	201	Public Administration
PA	202	Studies in Public Administration
PA	305	State and Local Government
PA	306	City Management
PA	340	Public Policy
PA	411	Grant Writing
PA	430	Special Topics: Elements and Issues in Community Development
PA	430	Special Topics: Sustainable Community Economic Development
SOC	384	Urban Sociology
SOC	330	Globalization and Identity
SUST	101	Intro/Sustainability Studies
SUST	301	Analysis Tools for Sustainable Decision Making
SUST	401	Working toward Sustainability

**Historic Preservation Minor**

HP	150	Introduction to Historic Preservation
HP	351	History and Philosophy of Historic Preservation
<i>Four of the following courses (of which two must be HP 300 level or above).</i>		
HP	160	American Buildings in the Western Tradition

HP	175	Historic Building Documentation
HP	202	Principles of Preservation Planning
HP	224L	Archival Research
HIST	151	United States History I: From Colonial Times to Reconstruction
HIST	152	United States History II: Reconstruction to the Present

**HP 300/400/500-level courses**

AAH	430/530	Special Topics in Art and Architectural History (selected topics)
ARCH	430/530	Special Topics in Architecture (selected topics)

**Visual Arts Studies**

The Visual Arts program at Roger Williams University prepares students for future careers in the arts with an interdisciplinary spirit and a global perspective. Uniquely located within a community of architects, preservationists and historians, the Visual Arts program plays an active role in bridging the disciplines of the school.

The Visual Arts faculty consists of active artists who share their experience with students through lively and challenging discussions and critiques. Media exploration is encouraged throughout the program and culminates in the creation of a cohesive body of work that reflects the individual student's interests.

Emphasis of study is placed on historical as well as contemporary theories in the arts so that students may better place their own artwork within a larger context. Balancing craft and conceptual agility, new and traditional media, the Visual Arts program positions graduates to engage in an increasingly interdisciplinary world.

**Degree Requirements**

Roger Williams University offers both the Liberal Arts degree (*Bachelor of Arts*) and the Professional degree (*Bachelor of Fine Arts*) in Visual Arts Studies with an opportunity to develop an area of media concentration within the Professional Degree. Students pursuing the *Bachelor of Arts* and the *Bachelor of Fine Arts* in Visual Arts Studies must satisfy the University Core Curriculum requirements in addition to the major requirements. *Bachelor of Arts* candidates must successfully complete the 17 courses required for the major as well as sufficient electives to total the 120 credits necessary for the *Bachelor of Arts* degree. Majors are encouraged to apply electives toward a minor or second major. *Bachelor of Fine Arts* candidates must successfully complete the 25 courses required for the *Bachelor of Fine Arts* degree. Visual Arts students will have a portfolio of their work reviewed by a faculty committee at mid-program and again at the end of the program in a Capstone Review. Senior Visual Arts Studies majors must submit a written thesis, participate in an exhibition and produce a portfolio of their work during their last year at the University.

**Bachelor of Arts Major Program Requirements****Foundation Course Requirements**

VARTS	101	Foundations of Drawing
VARTS	231	Foundations of Sculpture
VARTS	261	Foundations of Photography
VARTS	281	Foundations of Painting: Color and Design
AAH	121-122	History of Art and Architecture I-II

**Intermediate Studios**

The Intermediate Studio sequence is a two-part structure of 2 required courses + 4 intermediate studio options including at least one advanced studio option. Students complete all six required + elective studio courses:

VARTS	361	Introduction to Digital Media
VARTS	392	Mixed Media

Students select four (4) elective studios including at least one VARTS studio course at the 400 level or above:

VARTS	201	Drawing The Figure
VARTS	203	Renaissance Drawing Techniques
VARTS	204	Renaissance Drawing Techniques: The Human Figure
VARTS	232	Intermediate Concepts in Sculpture
VARTS	241	Introduction to Printmaking
VARTS	282	Oil Painting
VARTS	301	Advanced Drawing: Process and Content
VARTS	331	Metals Fabrication
VARTS	332	Advanced Sculpture: Process and Content
VARTS	351	Intermediate Concepts in Photography
VARTS	352	Advanced Photography: Process and Content
VARTS	362	Film, Video and Animation
VARTS	363	Intermediate Concepts In Digital Media
VARTS	364	Intermediate Concepts in Film, Animation and Video
VARTS	381	Painting The Figure
VARTS	382	Renaissance Apprentice Workshop
VARTS	383	The Art of Buon Fresco
VARTS	430	Special Topics in Visual Art
VARTS	431	Topics in Sculpture
VARTS	451	Topics in Photography/Digital Media
VARTS	469	VARTS Coop
VARTS	481	Topics in Painting/Drawing/Printmaking
VARTS	530	Special Topics in Visual Arts Studies

**History/Theory**

Students select one History /Theory courses from the following menu:

AAH	305	Theory and Methods of Art and Architectural History
AAH	311	History of American Art
AAH	312	History of Modern Art
AAH	313	History of African Art
AAH	317	Giotto to Leonardo
AAH	318	Michelangelo to Vasari
AAH	319	History of Italian Renaissance Art
AAH	320	The Art of Buon Fresco
AAH	321	Art and Architecture in the Classical World
AAH	322	Art and Architecture in the Medieval World
AAH	323	Art and Architecture in the Islamic World
AAH	330	Topics in Art and Architectural History
ARCH	324	Evolution of Urban Form
ARCH	325	History of Modern Architecture I: The Enlightenment to the Avant-Garde

ARCH	326	History of Modern Architecture II: 20th Century
ARCH	327	History of American Architecture
ARCH	328	Renaissance Architecture in Perspective
ARCH	329	History of Landscape Architecture
HP	341	Pre-industrial America
HP	342	Industrial America

and

AAH	421	Issues in Contemporary Art
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**Advanced Studies**

VARTS	471	Visual Arts Professional Practices
VARTS	491	Intermedia Workshop
VARTS	492	Senior Studio

**Bachelor of Fine Arts Major Program Requirements****Foundation Course Requirements**

VARTS	101	Foundations of Drawing
VARTS	231	Foundations of Sculpture
VARTS	261	Foundations of Photography
VARTS	281	Foundations of Painting
AAH	121	History of Art and Architecture I
AAH	122	History of Art and Architecture II

**Intermediate Studios**

Students complete twelve required + elective studio courses. Two Required courses:

VARTS	361	Introduction to Digital Media
VARTS	392	Mixed Media

**Concentration and Elective Studios**

4 intermediate studios, including at least one advanced studio, and 6 additional Visual Arts elective studios. To create the optional media concentration, a sequence of 4 courses must be in the same media area, i.e.: Film, Animation and Video; Painting, Drawing and Printmaking; Photography and Digital Media or Sculpture including at least one VARTS studio course at the 400 level. Elective studios may be from any of the other media areas.

**Film, Animation and Video**

VARTS	362	Film, Animation and Video
VARTS	363	Intermediate Concepts in Digital Media*
VARTS	364	Intermediate Concepts in Film, Animation and Video
VARTS	451	Topics in Photography/Digital Media*

**Painting, Drawing and Printmaking**

VARTS	201	Drawing The Figure
VARTS	203	Renaissance Drawing Techniques
VARTS	204	Renaissance Drawing Techniques: The Human Figure
VARTS	241	Introduction to Printmaking
VARTS	282	Oil Painting
VARTS	301	Advanced Drawing: Process and Content
VARTS	381	Painting The Figure

VARTS	382	Renaissance Apprentice Workshop
VARTS	383	The Art of Buon Fresco
VARTS	481	Topics in Painting/Drawing/Printmaking

**Photography and Digital Media**

VARTS	351	Intermediate Concepts in Photography
VARTS	352	Advanced Photography: Process and Content
VARTS	363	Intermediate Concepts in Digital Media*
VARTS	451	Topics in Photography/Digital Media*

**Sculpture**

VARTS	232	Intermediate Concepts in Sculpture
VARTS	333	Advanced Sculpture: Process and Content
VARTS	431	Topics in Sculpture

\*May be applied to either the Film, Video and Animation or Photography and Digital Media Concentrations

Additional Intermediate studio options may be applied to all concentration areas:

VARTS	430	Special Topics in Visual Art
VARTS	530	Special Topics in Visual Art

**History/Theory**

Students select 2 History/Theory courses from the following menu:

AAH	305	Theory and Methods of Art and Architectural History
AAH	311	American Art
AAH	312	Modern Art
AAH	313	African Art
AAH	315	Art of Buon Fresco
AAH	317	Giotto to Leonardo
AAH	318	Michelangelo to Vasari
AAH	319	History of Italian Renaissance Art
AAH	320	The Art of Buon Fresco
AAH	321	Arts & Arch of the Classical World
AAH	322	Arts & Arch of the Medieval World
AAH	323	Arts+Arch Islamic World
ARCH	324	Evolution of Urban Form
ARCH	325	History of Modern Architecture I
ARCH	326	History of Modern Architecture II
ARCH	327	History of American Architecture
ARCH	328	History of Renaissance Architecture
ARCH	329	History of Landscape Architecture
HP	341	Pre-Industrial America
HP	342	Industrial America

and:

AAH	421	Issues in Contemporary Art
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**Advanced Studies**

VARTS	471	Visual Arts Professional Practices
VARTS	469	VARTS COOP
VARTS	491	Inter Media (5 credits)

VARTS	492	Senior Studio (5 credits)
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**Visual Arts Studies Minor**

Visual Art Studies Minors are available in Concentration areas of Film, Animation and Video; Painting, Drawing and Printmaking; Photography and Digital Media and Sculpture. Film, a widely interdisciplinary subject, is located in both the Communications Program and the Visual Arts Studies Program. Both programs work closely together to host a film curriculum that is both diverse and focused. The Communications program emphasizes film culture and history. The Visual Arts Studies Program emphasizes film production.

**Requirements****Minor in Visual Art Studies: Film, Animation and Video**

FILM	101	Introduction to Film Studies
VARTS	361	Introduction to Digital Media
VARTS	362	Film, Animation and Video
VARTS	364	Intermediate Concepts in Film, Animation and Video

and two of the following:

VARTS	363	Intermediate Concepts in Digital Media
VARTS	392	Mixed Media
VARTS	430	Special Topics in Visual Art
VARTS	451	Topics in Photography/ Digital Media
VARTS	530	Special Topics in Visual Art Studies
COMM	380	Visual Media in Cultural Context
FILM	400	Curation and Festival Production

**Minor in Visual Arts Studies: Painting/Drawing/Printmaking**

VARTS	101	Foundations of Drawing
AAH	121	History of Art and Architecture I
VARTS	281	Foundations of Painting

and three of the following:

VARTS	202	Drawing The Figure
VARTS	241	Introduction to Printmaking
VARTS	282	Oil Painting
VARTS	301	Advanced Drawing: Process and Content
VARTS	381	Painting The Figure
VARTS	392	Mixed Media
VARTS	430	Special Topics in Visual Art
VARTS	481	Topics in Painting/Drawing/Printmaking
VARTS	530	Special Topics in Visual Arts Studies

**Minor in Visual Arts Studies: Sculpture**

VARTS	101	Foundations of Drawing
AAH	121	History of Art and Architecture I
VARTS	231	Foundations of Sculpture

and three of the following:

VARTS	232	Intermediate Concepts in Sculpture
VARTS	333	Advanced Sculpture: Process and Content

VARTS	392	Mixed Media
VARTS	430	Special Topics In Visual Art
VARTS	431	Topics in Sculpture
VARTS	530	Special Topics in Visual Arts Studies

***Minor in Visual Arts Studies: Photography/Digital Media***

AAH	121	History of Art and Architecture I
VARTS	261	Foundations of Photography
VARTS	361	Introduction to Digital Media

and three of the following:

VARTS	351	Intermediate Concepts in Photography
VARTS	352	Advanced Photography: Process and Content
VARTS	363	Intermediate Concepts in Digital Media
VARTS	392	Mixed Media
VARTS	430	Special Topics in Visual Art
VARTS	451	Topics in Photography/ Digital Media
VARTS	530	Special Topics in Visual Arts Studies

## SCHOOL OF ARCHITECTURE, ART & HISTORIC PRESERVATION

### Master of Architecture (M.Arch.)

The School of Architecture, Art and Historic Preservation offers the Master of Architecture professional degree program for entering graduate students who hold a pre-professional B.A. or B.S. in Architecture degree. Our goals include preparing students to enter the profession of architecture, to prepare for licensure, to provide for a sufficient depth of understanding of the components of architectural practice and to understand the diverse nature and variety of roles for architects in relation to other fields. The program encourages the mastery and skillful integration of environmental, social, historical, artistic, technical and philosophical concerns into carefully scaled designs that enhance their context.

Students develop design, visual and digital communication skills; knowledge of building techniques; and an understanding of human problems in a variety of local, regional and international contexts. In a world of continuous technological change, these timeless values and skills exist as relevant tools for contemporary life and practice, and as a means toward advancing the cause of a humane and civilized environment for all.

#### Applying to the Master of Architecture (M.Arch.) Program

Applicants must hold a B.A. or B.S. (\*) in Architecture degree program with a GPA of 3.0 or higher from a school of architecture that offers this degree as part of the accredited professional degree program sequence (\*\*). Applicants from other undergraduate programs may be considered for admission, but would be expected if admitted to complete coursework inclusive of coverage of all Student Performance Criteria outlined in the NAAB Conditions of Accreditation. To apply, submit the following:

1. Official transcripts of all undergraduate and graduate coursework
2. Personal statement (two double-spaced pages maximum) explaining your interest in obtaining the Master of Architecture degree
3. Two letters of recommendation attesting to your potential to succeed in graduate school
4. Portfolio containing examples of your work (see below)
5. If your first language is not English, an official report of TOEFL or IELTS results
6. Completed application form accompanied by the \$50 application fee

The portfolio may include exemplary work from Architecture as well as other creative and research work, and in total should convince the review committee that you are capable of producing independently conceived studio work at a high level of achievement. The portfolio should be in a compact format, no larger than 8.5" x 11", either in a notebook, portfolio binder or a bound document. Portfolios should contain at least four to six representative Architecture studio projects that should demonstrate:

- developed degree of competence in architectural design
- ability to organize programmatic content
- commitment to professionalism in the studio

Placement decisions will be communicated to accepted students as part of the Graduate Admissions Review process, along with a projected outline of studies toward graduation.

(\*) Placement in the Master of Architecture program's Architectural Design Studio sequence is subject to review of academic transcripts from the applicants' B.A. or B.S. degree, and portfolio submittal. Accepted students may expect to complete a minimum of 4 Architectural Design Studios at Roger Williams University, depending on the number of undergraduate Architectural Design Studios completed previously.

(\*\*) Placement in the Master of Architecture program coursework is subject to review of academic transcripts from the applicant's B.A. or B.S. degree. Accepted students must complete all student performance criteria for the accredited degree as outlined in the National Architectural Accrediting Board (NAAB) Conditions of Accreditation. This may include completion of additional coursework that is listed as undergraduate coursework at Roger Williams University. For specifics, please refer to the B.S. in Architecture / Master of Architecture 4+2 program requirements listed previously.

#### Course Offerings towards the Master of Architecture Degree

ARCH	413	Advanced Architectural Design Studio
ARCH	416	Advanced Topical Design Studio: Urban
or		
Arch	516	Graduate Topical Design Studio: Urban
ARCH	434	Design of Structures I
ARCH	435	Design of Structures II
ARCH	488	Computer Applications for Professional Practice
ARCH	513	Comprehensive Project Design Studio
ARCH	515	Graduate Architectural Design Studio (two required)
ARCH	524	Environmental Design Research
ARCH	542	Professional Practice

plus one advanced History/Theory Elective

ARCH	641	Graduate Thesis Research Seminar
ARCH	613	Graduate Thesis Studio

Electives: Four Architecture Electives, with three minimum at the graduate level

#### Architecture Elective Options

##### History/Theory Advanced Level Course Options:

ARCH	475	Frank Lloyd Wright: A Life's Work
ARCH	478	Dutch Architecture: The Enduring 20th Century Legacy
ARCH	530	Special Topics in Architecture
ARCH	573	Modernism in the Non-Western World: A Comparative Perspective
ARCH	576	Theoretical Origins of Modernism
ARCH	577	The American Skyscraper
HP	351	History and Philosophy of Historic Preservation
HP	391	Architecture and Historic Preservation Abroad

#### Graduate Architecture Electives: Four Required (a minimum of three at the graduate level):

Students are encouraged to look at these electives as a means to explore various concentrations available within the MS in Architecture program. Graduate electives are grouped in the areas of Sustainable Design, Urban Design, Digital Media and Historic Preservation. In addition some Integrative Core MS in Architecture courses are available as Architecture Electives. Students from other pre-professional programs may apply one undergraduate Architecture Elective to this requirement; otherwise all four should be taken at the Graduate level.

**Sustainable Design:** Arch 521 Sustainable Design Seminar, Arch 593 Sustainable Paradigms, Arch 594 Urban Ecology, Arch 533 Detailing the High-performance Envelope, Arch 535 Introduction to Proactive Simulation, Arch 536 Special Topics in Sustainable Design.

**Urban Design:** Arch 572 Urban Design Theory, Arch 594 Urban Ecology, Arch 524 Evolution of Urban Form, Arch 529 History of Landscape Architecture, 561 Landscape Architecture, HP 682L Preservation Planning Workshop, Arch 537 Special Topics in Urban Design.

**Digital Media:** Arch 587 Advanced Computer Applications in Design, Arch 586 Processing, Arch 588 Digital Manufacturing, Arch 589: 4-D (Four Dimensional), Arch 535 Intro to Proactive Simulation, Arch 538 Special Topics in Digital Media.

**Historic Preservation:** HP 501 Fundamentals of Historic Preservation, HP 525 Preservation Economics, HP 681L: Historic Rehabilitation Workshop, HP 582L Architectural Conservation, HP 526: Preservation Law and Regulation, HP 682L Preservation Planning Workshop.

**Core MS in Architecture courses:** ARCH 606 Field Research Seminar, ARCH 616: Collaborative Workshop.

**Graduate Architecture Electives:** Arch 574 Regionalism in Architecture, Arch 581 Construction Contract Documents, Arch 530 Special Topics in Architecture.

### ***Master of Architecture and & Master of Science in Architecture with Concentration options***

The elective categories above reflect the concentrations available within the Master of Science degree option. Students in the Master of Architecture program may apply six credits from that degree toward a Master of Science degree.

Students may expect to complete a minimum of four Architectural Design Studios and related courses at Roger Williams University, and up to six Architectural Design studios and additional professional coursework, depending on the nature and extent of undergraduate pre-professional coursework completed previously. Those needing additional work in Design, History/Theory, Environment and Behavior, Technical Systems or Professional Practices courses are advised to complete Summer Studies in Architecture at Roger Williams University, or to pursue a program timeframe extending from 2 to 3 years of study.

#### ***Graduate Course Grading, GPA and Graduation Requirements***

The minimum passing grade in SAAHP graduate level courses is a B- (2.67). The minimum GPA for *Master of Architecture* graduates is a 3.0 in 500 and 600 level courses. Students continuing from the RWU undergraduate program graduate with *Bachelor of Science* in Architecture and *Master of Architecture* degrees, awarded simultaneously. Students entering Roger Williams University after completing undergraduate studies at other institutions graduate with the Master of Architecture degree.

#### ***Registration in Graduate Courses***

Students pursuing the *Master of Architecture* program who are enrolled in graduate courses may also be enrolled in undergraduate courses during the same semester, due to the nature of the continuity between undergraduate and graduate levels of study in

many US professional degree programs in architecture. Students are encouraged to complete all undergraduate course requirements as soon as practicable, but not at the expense of interrupting Architecture program curriculum sequences.

#### ***Professional Degree Program Accreditation***

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards. Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

Roger Williams University offers the following NAAB-accredited degree programs:

M. Arch. (pre-professional degree + 38 graduate credits)

Next accreditation visit: 2012

#### ***Master of Science in Architecture (M.S.)***

Starting in the Summer 2011, the School of Architecture, Art and Historic Preservation will offer post-professional education to students with a professional degree (B.Arch., M.Arch. or D.Arch.) in architecture. The Master of Science in Architecture program proactively engages contemporary trends in the profession of architecture such as the growing need for specialization within the profession in order to keep pace with the increased sophistication of building systems and methods of project delivery. Students are introduced to the program within a collaborative multidisciplinary framework from which they can then explore advanced knowledge in one of four areas of concentration: Design (SD), Urban Design (UD), Digital Media (DM), and Historic Preservation (HP).

The Master of Science in Architecture program is open to both full-time on-site student and part-time online/limited residency students. Full-time student can complete the 30 to 34 credit hours program within one-year over three semesters. Part-time students must complete their degree within the five years as outlined in the graduate section of the RWU University catalog.

Students who complete this degree program will master new skills and gain new insights in their area of concentration and also will develop their ability to operate and lead in collaborative, multidisciplinary environments. The program prepares students for advanced independent inquiry in their area of concentration, while also situating the investigation within a broader collaborative framework that reflects the increasingly multidisciplinary nature of today's interventions on the built environment and the shared authorship across many different specialists who work together in the "in-between" realm that separates their respective specialties.

#### ***Applying to the Master of Science in Architecture Program***

Applicants must hold a B. Arch. or a M.Arch. degree from a NAAB accredited school of architecture. Candidacy by students with a professional architecture Diploma from universities abroad will also be considered.

To apply, submit the following:

1. Official transcript of all undergraduate and graduate coursework
2. Personal statement (two double-spaced pages maximum) explaining your motivation in obtaining the Master of Science in Architecture degree and outlining your academic interests and intentions.
3. Two letters of recommendation attesting to your potential to succeed in post-graduate studies
4. Portfolio containing examples of your work.
5. If your first language is not English, an official report of TOEFL or IELTS results
6. Completed application form accompanied by the \$50 application fee

Applications are accepted for Summer start only; and are reviewed on a rolling basis.

### ***Course Offerings towards the Master of Science in Architecture Degree***

Student in the M.S. program must complete 30 to 34 credits with at least 30 graduate credits of coursework. Students take common courses required across all areas of concentration, four graduate courses in the area of concentration may select an option regarding an end-of-study culminating experience that fits their needs.

The common required courses across all areas of concentration are:

ARCH	601	Graduate Colloquium
<i>and at least one of the following two courses</i>		
ARCH	606	Field Research Seminar
ARCH	616	Collaborative Workshop

#### ***Concentration Requirements:***

Participants are required to take four Graduate courses in the area of concentration (or three courses and an approved graduate level Design Studio in the area of concentration)

#### ***End-of-Study Options:***

The end-of-study options include a coursework track and a thesis track. In the Thesis track, students first take ARCH 641 Graduate Research Seminar and then complete either ARCH 613 Graduate Thesis Studio or ARCH 633 Independent Graduate Research Thesis. In the coursework track, students take graduate courses in order to complete the degree programs' required credit total. In one of terminal courses, the student writes a scholarly paper that demonstrates that he/she has learned, synthesized and is able to apply the knowledge/material he/she has encountered during their course of study.

#### ***Sustainable Design Concentration***

ARCH 521 Sustainable Design Seminar

or

ARCH 593 Sustainable Paradigms

*and three of the following:*

ARCH	513 or 515	Comprehensive or Grad. Design Studio with approval of program coordinator;
ARCH	535	Intro to Proactive Simulation

ARCH	536	Special Topics in Sustainable Design
ARCH	594	Urban Ecology
CNST	540	Sustainable Construction
ARCH	533	Detailing the High-performance Envelope

#### ***Urban Design Concentration***

ARCH	572	Urban Design Theory
ARCH	516	Graduate Topical Design Studio or approved ARCH 515

*and two of the following:*

ARCH	537	Special Topics in Urban Design
ARCH	524	Evolution of Urban Form
HP	682L	Preservation Planning Workshop
ARCH	594	Urban Ecology
ARCH	561	Landscape Architecture: Theory and Practice
ARCH	529	History of Landscape Architecture

#### ***Digital Media Concentration***

ARCH	587	Advanced Computer Applications in Design
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*and three of the following:*

ARCH	586	Processing
ARCH	588	Digital Manufacturing
ARCH	589	4-D (Four Dimensional)
ARCH	535	Intro to Proactive Simulation
ARCH	538	Special Topics in Digital Media
ARCH	513 or 515	Comprehensive or Grad. Design Studio with approval of program coordinator

#### ***Historic Preservation Concentration***

HP	501	Fundamentals of Historic Preservation
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*and three of the following:*

HP	525	Preservation Economics
HP	681L	Historic Rehabilitation Workshop
HP	582L	Architectural Conservation
HP	526	Preservation Law and Regulation
HP	682L	Preservation Planning Workshop

#### ***Master of Architecture and & Master of Science in Architecture with Concentration options***

The elective categories above reflect the concentrations available within the Master of Science degree option. Students in the Master of Architecture program may apply six credits from that degree toward a Master of Science degree.

#### ***Post-professional Studies In Architecture and the Intern Development Program***

Recognizing the trend toward the development of post-professional studies in Architecture, the National Council of Architectural Registration Boards (NCARB) has recently decided that completion of a post-professional degree such as this will offset nearly 20 percent of the documented work experience that intern architects (IDP) take prior to the professional licensure exam.

**Graduate Course Grading, GPA and Graduation Requirements**

The minimum passing grade in SAAHP graduate level courses is a B- (2.67). The minimum GPA for Master of Science in Architecture graduates is a 3.0 in 500 and 600 level courses.

**Master of Science in Historic Preservation (M.S.)**

Building on its three-decades-old undergraduate program, Roger Williams University now offers a Master of Science in Historic Preservation. A two-year, 52-credit program is available to qualified students holding a bachelors degree. A one-year (minimum), 32-credit program is available to students holding a bachelor's degree in historic preservation. A least 30 graduate credits must be taken at Roger Williams University.

The mission of the Historic Preservation Program is to provide an education that empowers individuals to work with and to help others while realizing their own personal and professional potential. Classes, community-based work and field experience specific to preservation are coupled with a strong liberal-arts education. To mirror the environment we help preserve and to prepare students for diverse careers, the program couples a multi-disciplinary approach with a rigorous core of field-based professional preservation offerings.

Students gain an understanding of the field in the greater context of history, the built environment, cooperative community engagement, work with allied professions; documentation and research, and design, philosophy, standards and practice. The program includes preservation history and philosophy, planning, law and regulation, economics and heritage management. Studies are placed into practice through field-based workshops, assignments and an internship—all in partnership with area and national organizations.

**Applying to the Master of Science in Historic Preservation Program**

Applicants must hold a bachelor's degree from an accredited college or university. To apply to the M.S. in Historic Preservation Program, submit the following to the Office of Continuing Studies and Graduate Admission:

- Official transcripts of all undergraduate and graduate course work
- Personal Statement (two double-spaced pages, maximum) describing your interest in preservation, career goals and how you can positively contribute to the Master's Program in Historic Preservation at Roger Williams University
- Two letters of recommendation attesting to your potential to succeed in graduate school
- Current résumé
- If your first language is not English, an official report of TOFEL or IELTS results
- Completed application form accompanied by the \$50 application fee

Applications are reviewed on a rolling basis.

**Course offerings toward the Master of Science in Historic Preservation Degree****Core Courses**

Students complete the following required courses:

HP	501	Fundamentals of Historic Preservation
HP	524L	Archival Research
HP	525	Preservation Economics
HP	542	Preservation Professional Practices
HP	526	Preservation Law and Regulation
HP	551	History and Philosophy of Historic Preservation
HP	569	Preservation Internship
HP	582L	Architectural Conservation
HP	631	Graduate Thesis Seminar in Historic Preservation
HP	681L	Historic Rehabilitation Workshop
HP	682L	Preservation Planning Workshop
HP	651	Preservation Graduate Thesis

**Historic Preservation Electives**

In consultation with their advisor, students select three graduate-level electives from the following:

ARCH	542	Professional Practice
ARCH	572	Urban Design Theory from the Industrial Revolution to the Present
ARCH	573	Modernism in the Non-Western World: A Comparative Perspective
ARCH	576	Regionalism in Architecture
ARCH	576	Theoretical Origins in Modernism
ARCH	577	The American Skyscraper
ARCH	581	Construction Contract Documents
ARCH	593	Sustainable Paradigms
AAH	530	Special Topics in Art + Architectural History
HP	530	Special Topics in Preservation
LEAD	501	Leaders and the Leadership Process
LEAD	502	Communication Skills for Leadership Roles
LEAD	503	Data Management and Analysis for Organization Leaders
LEAD	505	Budgeting and Finance in Complex Organizations
LEAD	506	Human Resource Management for Organizational Leaders
LEAD	507	Strategic Leadership in a Globalized World
LEAD	509	Negotiation Strategies
LEAD	510	Stakeholders Relations in Complex Organizations
PA	501	Foundations of Public Administration: Legal and Institutional
PA	502	Foundations of Public Administration: Theoretical
PA	503	Quantitative Methods in Public Administration
PA	504	Public Policy and Program Evaluation
PA	505	Public Budgeting and Finance
PA	506	Public Personnel Management
PA	511	Public Organizations
PA	512	Intergovernmental Relations
PA	514	Urban Administration and Management
PA	516	Grant Writing and Management

### ***Graduate Course Grading, GPA and Graduation Requirements***

The minimum passing grade in graduate-level courses is a B- (2.67). The minimum GPA for M.S. in Historic Preservation graduates is a 3.0.

#### ***Registration in Courses***

Students pursuing the Master of Science in Historic Preservation who are enrolled in graduate courses may also be enrolled in undergraduate courses during the same semester. In their first year and in consultation with the program director, students in the two-year program may select 'bridge' courses from undergraduate offerings in historic preservation.

### ***GRADUATE PROGRAMS: GABELLI SCHOOL OF BUSINESS***

#### ***Master of Science in Leadership***

The Master of Science in Leadership is a 36-credit hour program designed for individuals who seek to acquire or update dynamic leadership skills that can create high performance organizations. The program is designed to prepare students to address the challenges that organizations are likely to face in the globalized, technological world of the 21st Century. Students will apply new paradigms, techniques and methods to promote creativity, innovation, improvisation and adaptation. Leadership skills acquired from the curriculum include communication, negotiation, the leadership process, accountability, inclusive excellence leadership, and strategic leadership.

The Master of Science in Leadership program seeks to create the following competencies:

- A clear understanding of the political, social, economic, and cultural environments in which a leader must operate
- An awareness of personal leadership strengths and weaknesses and strategies to improve deficits
- Strategic planning using resource allocation, sound research, data analysis and innovation
- Insight into international perspectives through the use of case studies of non-U.S. developed and developing countries
- The ability to make leadership decisions which are ethical, efficient, and informed by research, evaluation, and diagnoses of situations
- Effective leadership of diverse groups through the accurate use of supportive organizational mechanisms and the ability to identify and address forces that detract from effective diversity leadership
- The ability to apply leadership skills and behaviors to build the human, social, intellectual, and financial capital for the sustainability of their organizations
- The skills to lead groups and organizations in the design and implementation of new paradigms, effectively utilizing leadership to enhance the reputation of organizations in domestic and global contexts

Courses within the curriculum cover the leadership process, communication skills, diversity management, research, budgeting, organizational performance and conflict resolution. The 12-course sequence provides students with leadership principles as a

foundation and adds skill areas important for leading complex organizations in global and community contexts. Students pursue critical thinking and analysis skills to add to the leadership principles. The students will complete the Leadership program with leadership analysis projects requiring self-assessment and research skills.

#### ***Applying to the Master of Science in Leadership***

To be considered for admission to the Master of Science in Leadership degree program, applicants must hold an earned Bachelor's Degree from an accredited college or university. To apply, submit the following:

1. Official transcripts of all undergraduate and graduate coursework.
2. A career statement (two double-spaced pages maximum) describing your interest in leadership, career goals, and anticipated contributions to the Master of Science in Leadership at Roger Williams University.
3. Two letters of recommendation attesting to your potential to succeed in graduate school.
4. A current resume.
5. If your first language is not English, an official report of TOEFL or IELTS results.
6. Completed application form accompanied by the \$50 application fee.

#### ***Certificate in Leadership:***

Students interested in exploring graduate study in leadership through a shorter course of study should consider a Graduate Certificate program in Leadership. Students may earn a Certificate in Leadership to complement their professional credentials. A separate application process is required.

#### ***The Leadership Certificate is composed of five courses:***

LEAD 501 Leaders and the Leadership Process  
 LEAD 502 Communication Skills for Leadership Roles  
 LEAD 504 Inclusive Excellence and the Leadership Role  
 LEAD 507 Strategic Leadership in a Globalized World  
 LEAD 510 Stakeholder Relations in Complex Organizations

#### ***Applying to the Graduate Certificate Program in Leadership***

Applicants must hold a bachelor's degree from a regionally accredited college or university in order to be eligible for Graduate Certificate Admission. Admission requirements are:

1. Admissions application;
2. Official transcripts for all previous undergraduate and graduate work;
3. Proof of undergraduate bachelor's degree from a regionally accredited college or university;
4. Possible admissions interview depending on the background of the student;
5. Any required application fees

Admission into the Graduate Certificate program will not be granted to those without a complete application including an appropriate bachelor's degree. Roger Williams University reserves the right to refuse admission and/or to require undergraduate bridge or prerequisite courses.

**AQS 314 – Field Collection Methods (Bahamas)**

This three credit course is organized as a ten day off-campus program offered through the New England Aquarium. Each Spring, the Aquarium organizes a field identification and collecting trip to Cay Sal bank in the Bahamas. For this course, the trip will be timed to coincide with the RWU Spring Break, and one of the RWU Faculty will accompany the students. Up to 15 students can sign up to work alongside Aquarium professionals as they collect and identify reef fish and invertebrates. The trip includes accommodations and up to 5 dives/day aboard the R/V Coral Reef II, meals and beverages, and a dive in the Aquarium's Giant Ocean Tank. Students will increase their fish identification skills, learn about conservation efforts in the Bahamas, and participate in on-going reef conservation studies. (3 credits) Spring

**AQS 346 – Principles of Hatchery Management and Lab**

The aquaculture industry relies on hatcheries – production facilities that nurture young aquatic organisms to the point where their survival is assured. Hatcheries include facilities dedicated to the production of almost any fresh or saltwater aquatic species including: shellfish, tropical marine fish, trout, abalone, and seaweed. This course is intended to support an education in aquaculture and give students practical experience in the operation of all aspects of hatchery. The content of this course will depend on the instructor, but will focus on either shellfish or marine ornamental production as these are the two main production facilities that currently operated at the university. This course will be very hands-on and include important aspects of animal husbandry and production. (4 credits) Spring

**AQS 352 – Public Aquarium Management**

This course will instruct students in all aspects of the management of a large public aquarium facility. This includes how to maintain a healthy life support system for display organisms as well as an overview of the management of staff, interns and volunteers, financial considerations, corporate structure, regulatory requirements, permitting, marketing and all aspects of operating a large not-for-profit organization. This will be accomplished through examination of the operations and management structure of the New England Aquarium and will rely on tours of the facility and a series of seminars offered by the key departmental heads at the facility. It is anticipated that the skills acquired in this course can be applicable to a wide variety of not-for-profit environmental and educational organizations. (3 credits) Spring

**AQS 420 – New England Aquarium Internship**

*Prerequisites: Junior-level in good standing; Overall GPA of 2.8 or higher; Acceptance to the NEAq internship program*

Registration for this course is limited to students who have been accepted for a semester long internship at the New England Aquarium (NEAq) in Boston, Ma. Internships at NEAq offer college students experience in areas ranging from veterinary services and animal husbandry to communications and program development. Each Internship will include: 1) an active research component that requires 15-20 hours per week in a laboratory setting under the direction of a research scientist at the New England Aquarium (NEAq) and 2) an animal husbandry experience of 15-20 hours per week at the NEAq with responsibilities that will familiarize students with the daily operation and maintenance required in running a large public aquarium. The duties of this experience may include feeding animals, cleaning tanks and equipment, and providing treatment for diseased animals. (8 credits) Spring, Fall and Summer

**AQS 450 – Research in Aquaculture/ Aquarium Science**

*Pre-requisites: Permission of Instructor*

Original independent research in aquaculture and/or aquarium science. Research projects are chosen in consultation with a faculty research advisor. *May be repeated for credit (1-3 credits)*  
Offered on demand

**ARCHITECTURE****ARCH 101 – Foundations of Architecture**

A classroom-based introduction to the nature of the architectural endeavor, and the means used to make architecture. Lectures and explorations of issues of public and private space, architectural composition, and the multiple responsibilities architects face in society in relation to a diversity of users and clients, the site, and the public realm will form the basis for classroom discussion, and written and graphic assignments. (3 credits) Fall, Spring

**ARCH 113 – Architectural Design Core Studio I**

A rigorous introduction to the fundamentals of Architecture and Design utilizing iterative exercises grouped around nine design topics developed and presented in two and three-dimensional media. Repetition reinforces the mastering of freehand drawing, drafting and model making skills. Lectures introduce formal principles underlying each project group: geometric composition, scale and proportion, architectural elements, space definition, analytical diagramming, color, and solar orientation to study light and shadow. The emphasis is on abstract design but the course ends with the design of a scaled and inhabited space. Minimum passing grade average of "C" required in Arch 113-114. (5 credits) Fall, Spring

**ARCH 114 – Architectural Design Core Studio II**

*Prerequisite: ARCH 113*

This course continues the first semester's focus on elemental design principles and visual communication, but initiates a departure from the abstract realm of design into the tangible world of built architectural form. The projects and their supporting lectures examine the language of architecture through exercises exploring fundamental Architectural Design Principles: spatial organizations, circulation and movement, simple structural and enclosure systems, spatial articulation, site response and solar orientation. To ensure clarity and understanding all building programs are simple but evocative and project sites vary from rural to urban and from flat to sloped. Minimum passing grade average of "C" required in Arch 113-114. (5 credits) Spring, Summer

**ARCH 213 – Architectural Design Core Studio III**

*Prerequisite: ARCH 114*

Core Studio III concentrates on the exploration of a rational design methodology through the process of analysis, synthesis and transformation. Through a series of short exercises and comprehensive projects, students are encouraged to develop a conceptual basis for their work, with an emphasis on site, climate and the environment, along with the principles of organization, including spatial hierarchy, circulation and structure, as determinants of architectural form. Students will quickly generate multiple viable solutions for each project and will present their work in a variety of formats from quick conceptual sketches and models to carefully crafted drawings. There will be a concentration on the design of space in section and an ongoing study of the quality of light. Students explore the potential of the sites they visit through in-depth inquiries and are introduced to design in an urban context. There is an emphasis on three-dimensional visual communication skills and the start of the integration of computer drawings into the studio. A series of theme based faculty lectures will augment the studio work. Students are required to present a digital portfolio at the middle and end of the semester. Minimum passing grade of "C" is required. (5 credits) Fall

**ARCH 214 – Architectural Design Core Studio IV**

*Prerequisite: ARCH 213, MATH 136 or higher*

This studio continues to develop the students' design process and explores the concepts and strategies that have the capacity to significantly determine building form. Particular emphasis will be placed on the relationship of design to program, structure and materials through the study of dwellings. Special attention will be paid to an understanding of human scale and its impact upon design. Short sequential exercises enable students to develop an understanding of

the use of different materials and their structural implications. Bearing wall, columnar (including free-plan) and modular building systems will be studied. These shorter problems will be followed by a longer assignment that uses different urban sites in a variety of locations as the catalyst for an investigation into how the fundamental human need for shelter is affected by regional and cultural precedents and particular climatic conditions. Students are asked to address basic environmental issues by considering passive strategies for heating and cooling. The Development of graphic, computer and three-dimensional communication skills development are also continued. Faculty lectures will be integrated into the semester and a digital portfolio will be required. Minimum passing grade of "C" required.

### **ARCH 231 – Construction Materials and Assemblies I**

*Prerequisite: Sophomore standing*

This course is an introductory overview to the "art of making buildings." The student shall survey materials and methods used in building construction for foundation, wall, floor, roof, enclosure & interior finish systems and their employment in the design process for traditional, nontraditional and sustainable building environments with emphasis on architectural expression. The major physical systems found in buildings and design constraints that influence them will be examined in the context of wood and masonry construction. The course also dedicates a substantial portion of its time to the examination of building envelope concepts as the locus of design resolution between technical and architectural realms. The course engages ARCH 214 Architectural Design Core Studio IV as a means to integrate materials and assemblies in students' design thinking. (3 credits) Spring

### **ARCH 287 – Introduction to Computer Applications in Design**

*Prerequisite: Sophomore Standing*

An introduction to computer systems – software and hardware, and their application in architecture. Emphasis is placed on learning how the computers can assist in the design process by modeling, visualizing and analyzing building designs. Introduction to drafting and three-dimensional modeling. (3 credits) Fall

### **ARCH 313 – Architectural Design Core Studio V**

*Prerequisite: ARCH 214*

The focus of this Studio is upon the integration of building form, structure as space-generator, construction materials & assemblies and sustainability themes in architectural design. The Studio also engages the continued refinement of four broad areas of architectural design education: (1) development of a theory base; (2) development of design methods and studio skills; (3) urban issues; and (4) development of a fuller appreciation for the understanding of construction technology and its function as a medium for architectural design. Minimum passing grade of "C" required. (5 credits) Fall, Summer

### **ARCH 321 – Site and Environment**

*Prerequisite: Sophomore standing*

This course presents an overview inventory of all the factors/systems that may be encountered in any analysis of site conditions. The student will be presented with a general description of how each factor operates and procedures to maintain or improve the quality of the site environment. This course promotes a value system based upon the preservation of both natural and cultural ecology. Value and meaning flow from a concept of sustainability at all levels of cultural and environmental interaction. (3 credits) Fall

### **ARCH 322 – Theory of Architecture**

*Prerequisite: AAH 121-122, Arch 325*

The intention of this course is to familiarize students with a variety of historical, theoretical and methodological issues that have structured contemporary understanding and criticism of architecture. The class introduces students to the polemics and debates of the post-war period, the developments and influence of non-Western modern architecture, post-modernism, the theoretical

investigations centered around structuralism and post-structuralism, the development of the various schools of architectural theory in the 1970s and 1980s, and contemporary theoretical and critical positions. (3 credits) Spring

### **ARCH 324 – Evolution of Urban Form**

*Prerequisite: AAH 121-122 or permission of instructor*

*Cross-Listed with Arch 545*

Examines and analyzes the evolution of urban form, from neolithic villages to cities of the emerging modern era. Addresses why cities have taken the forms they have, and their formal, physical, and spatial elements. Students consider urban structure and dynamics relative to architectural expression, building types, and urban open spaces. (3 credits) Annually

### **ARCH 325 – History of Modern Architecture I: The Enlightenment to the Avant-Garde**

*Prerequisite: AAH 121-122 or permission of instructor*

This course on modern architecture examines buildings, cities, and landscapes in relation to the visual arts, culture, politics, and technological and social change. It begins with the origins of modern architecture in Western Europe, continues with an exploration of key 19th-century architects and theorists. It highlights the 20th-century avant-gardes and concludes with the crystallization of modern architecture in the West and around the world. The course seeks to explain the modern not only as a visual phenomenon, but also as an intellectual, philosophical, and cultural idea. (3 credits) Fall, Spring

### **ARCH 327 – History of American Architecture**

*Prerequisite: AAH 121-122 or permission of instructor*

Examines American Architecture and architectural thought from 1800 to the 1960s. The course is organized around a series of key themes. Special emphasis will be placed upon architecture as a force within, and a manifestation of American culture at large. (3 credits) Annually

### **ARCH 328 – Renaissance Architecture**

*Prerequisite: AAH 121-122 or permission of instructor*

A detailed exploration of the architecture of Italy from c. 1400 to 1580 within the context of the institutions, values and ideals that emerged during the civilization of the Renaissance, as well as analysis of how and why various aspects of Renaissance architecture influenced buildings, designs, and theories up to the 20th century. The course will focus upon accounting for the evolving motivations and goals that embodied the spirit of the ages to be examined. Architectural theory, as reflected in surviving treatises by Renaissance and Renaissance-inspired theorists, shall be analyzed not only for their architectural content, but also as the primary documents that reflect the changing attitudes and applications of Renaissance humanism and the revival of Classical antiquity. (3 credits) Annually

### **ARCH 329 – History of Landscape Architecture**

*Prerequisite: AAH 121-122 or permission of instructor*

*Co-Listed with ARCH 529*

History of Landscape Architecture is a survey of the development of man's relationship to and shaping of the land. This course will survey the landscape and gardens from the beginnings of civilization until contemporary times, although the primary emphasis will be on the Italian Renaissance, the gardens of France in the age of Louis XIV, and the English garden. The course will also include contributing cultures, such as China, India and Japan, as well as study the growth of parks in the 19th century, particularly in the United States. (3 credits) Annually

### **ARCH 331 – Construction Materials and Assemblies II**

*Prerequisite: ARCH 231*

This continuation of Construction Materials and Assemblies I provides students with the awareness and understanding necessary for the selection of materials, components and assemblies for

the design and construction of buildings. The course explores traditional and non-traditional building techniques, methods and materials selection with particular emphasis on steel, concrete, and glass in relation to fabrication and assembly methods, historical influences, function, sustainability, and architectural expression. Issues of materials' embodied energy as well as recyclability and disassembly are also considered. The course also dedicates a substantial portion of its time to the examination of building envelope concepts as the locus of design resolution between technical and architectural design realms. Detailing issue includes optimization of the building's thermal performance. The course engages with ARCH 313 Architectural Design Studio Core V as a means to integrate materials and assemblies issues in the student's design thinking. (3 credits) Fall

### ARCH 332 – Acoustics and Lighting

*Prerequisite: Junior standing*

This course addresses three of the many form generators in architecture, the acoustical, day lighting and artificial lighting environment. It also addresses the soft and hard technologies that support the creation of these environments using “rules of thumb”, analytical calculations and modeling. The course provides an introduction and conceptual understanding of these subjects. Sustainability is embedded in the nature of the subjects with a particular emphasis on energy conservation, integration of natural and artificial systems; the affect on contemporary practice, and the emerging roles of architectural careers and consultants in these disciplines.

The course is subdivided into three equal offerings: acoustical principles and practical applications in buildings that affects site selection and evaluation of buildings and their orientation on a site and shaping of space for sound control, all done in conjunction with case studies. The second and third parts deal with natural or day lighting and artificial lighting with an emphasis on their integration through design. Basic principals are introduced, design procedures outlined, calculating methods reviewed, case studies and the use of physical and computer modeling investigated. The students will gain a sufficient basic understanding of acoustical, day lighting and artificial lighting design in order to feel confident in making these concerns an inherent part of their design process. (3 credits) Spring

### ARCH 333 – Mechanical and Electrical Equipment of Buildings

*Prerequisite: Junior standing*

This course provides a basic study of the mechanical, sanitary, water supply, sewage disposal, heating, ventilating, air conditioning, fire protection and electrical equipment and systems used in buildings. The student learns the basics of active and passive heating, cooling and ventilating systems, load calculations, life safety ventilation, psychometrics, plumbing, storm drainage, fire protection systems, and electrical, energy codes and management with discussion of energy conservation and construction budgeting as well as M & E construction documents.

Particular emphasis is given to systems integration. First is the recognition that buildings consist of seven component systems; space planning, structural, mechanical, electrical, plumbing (including fire protection); enclosure, and fitments (fixtures and furniture). Second is the need to consider these systems as early in the design process as possible. Design considerations such as points of origin, generating equipment, distribution devices, delivery mechanisms, control systems and energy usage are studied. Sustainability is embedded in the nature of these subjects with a particular emphasis on energy conservation and efficient design practices. Where possible “rules of thumb” sizing and diagramming techniques are examined and technical design development are explored from the point of view of, energy efficiency, the architect's design and the engineering consultant's criteria. Classroom lectures, case studies (on hard and soft technologies) and a field trip are used to expand on the reading assignments and to provide a general introduction and overview of the subject. (3 credits) Fall

### ARCH 335 – Structure, Form and Order

*Prerequisites: MATH 136 or higher, and PHYS 109 or 201*

Introduces the fundamental concepts of structural form and behavior through a combination of lectures and studio exercises. Basic structural forms and their taxonomy will be studied in nature

and through history, using visual presentations, readings, and hands-on experiments. Load paths and basic load tracing through common structural systems will be investigated. An introduction to vector based force representation will also be covered as a continuation of topics covered in Physics. In addition the students' studio projects will be utilized for assignments. The development of a strong structural vocabulary will also be stressed. (3 credits) Fall

### ARCH 413 – Advanced Architectural Design Studio

*Prerequisite: ARCH 313, 231, 321, 322, 325, 335*

Students may select from a number of thematically focused directed studios in order to fulfill the Advanced Architectural Design Studio requirement for the Bachelor of Science and BS + Masters of Architecture degree programs. Students completing a Bachelor of Science are required to take either an Advanced Architectural Design Studio or an Advanced Topical Design Studio. (5 credits) Fall, Spring, Summer

### ARCH 416 – Advanced Topical Design Studio: Urban

*Prerequisite: ARCH 313, 321, 322, 325*

This advanced design studio examines the role of Architecture as a critical component of the larger built environment and of the public realm. As such, the projects engaged within this studio focus on issues and concerns impacting local and/or global communities. This studio also explores the role of architecture in relation to allied disciplines such as Urban Design, Historic Preservation, Planning and Landscape Architecture, and in relation to the various formal and informal constituencies that influence the shape of the urban fabric. This course is cross-listed with Arch 516 Graduate Topical Design Studio: Urban Minimum passing grade of “C” required. (5 credits) Fall, Spring, Summer

### ARCH 430 – Special Topics in Architecture

*Architecture Elective*

*Prerequisite: Junior Standing*

Variable content course dealing with significant aspects and themes in Architecture, in the areas of history/theory of architecture, environmental and behavior; technical systems, and professional practices. (3 credits) *Special offering*

### ARCH 434 – Design of Structures I

*Prerequisites: ARCH 335*

A numeric and graphical approach to the design and analysis of basic structural systems. Basic principles of mechanics: forces, equilibrium, geometric properties of areas, material properties, support conditions, stress strain relationships will be presented. The selection and configuration of efficient structural systems for common building types will be emphasized. Projects requiring the design and analysis of simple funicular structures will be assigned. (3 credits) Fall, Spring

### ARCH 435 – Design of Structures II

*Prerequisites: ARCH 434*

A qualitative and quantitative analysis of structural materials, structural members, and structural assemblies. Emphasizes the fundamental design principles of wood, steel and concrete structures. Foundation and lateral load resisting systems will be studied. Case studies of significant architectural structures will be assigned to develop design and analytical skills, including the use of structural analysis software. The integration of the structural system with other systems within the building and its relationship to the enclosure system will be addressed. Advanced structural technologies, such as tensile, shell, and high-rise systems will be introduced. (3 credits) Fall, Spring

**ARCH 461 – Landscape Architecture: Theory and Practice***Architecture Elective**Prerequisites: ARCH 313, ARCH 321, and junior standing**Co-Listed with ARCH 561*

Introduces the theoretical underpinnings and design processes of landscape architecture as a discipline and as a contemporary practice. Modes of interpreting, inventorying, and working with the landscape and the materials used in landscape construction will be examined. Class lectures, case study research and simple design exercises will look at landscape design at multiple scales. The central role of landscape design as an integral component of sustainable development practices will also be examined (3 credits) *Annually*

**ARCH 475 – Frank Lloyd Wright: A Life's Work***Architecture Elective**Prerequisite: Junior standing*

An in-depth review and evaluation of America's most famous architect. Wright's buildings and philosophy, developed over a 70-year career, are described, examined and discussed. Wright's influence in the evolution of modern architecture is explored and evaluated, and his contributions are assessed. Field trips and related guest lecturers will be included where possible and appropriate. (3 credits) *Spring*

**ARCH 477 – Architecture in Context***Architecture Elective**Prerequisite: Junior standing*

Through a variety of study and documentation techniques, students examine the architecture and urbanism of the Study Abroad setting as important cultural manifestations of a people and their history. Readings and lectures by University and local faculty provide historical or theoretical background for students' on-site observations. The current practice of architecture will likewise be illuminated by visits with local practitioners and tours of their work. Through an appreciation of the range of issues, which can influence architectural and urban form in the study abroad setting, it is hoped that students will be able to reflect more objectively on their own culture, environment and creative processes. (3 credits) *May be offered Fall, Spring, Summer as part of Study Abroad programs.*

**ARCH 478 – Dutch Architecture: The Enduring 20th Century Legacy***Architecture Elective**Prerequisite: ARCH 325, junior standing*

Dutch architecture of the 20th century provides a unique grounding for the study of modern architecture's ideas, development and buildings. Dutch architecture of the last century may be seen as a laboratory for the examination of a contemporary society's environment and social advancement. Topics will explore and examine the thematic evolution of 20th century architectural ideals in Holland as expressed by significant architects' writings and buildings. A lecture-seminar format promotes the idea that themes of the past century continue to be advanced in contemporary Dutch architectural theory and practice. (3 credits) *Fall*

**ARCH 484 – Construction Estimating and Scheduling***Architecture Elective**Prerequisites: ARCH 231, ARCH 331*

An introduction to the fundamentals of construction estimating and scheduling. Conceptual, square foot, systems and unit price estimates will be studied along with basic CPM scheduling theory to include bar charts and network schedules. (3 credits) *Spring*

**ARCH 487 – Digital Modeling***Architecture Elective**Prerequisites: ARCH 287 and completion of the Architecture Core Program*

This course will emphasize the development and use of architectural computer models as various phases within the design process, from conceptual sketches through design realization. Students

will learn modeling, lighting and rendering applications using significant architectural and design works as references. A variety of programs will be investigated. (3 credits) *Fall*

**ARCH 488 – Computer Applications for Professional Practice***Prerequisites: ARCH 287 and completion of the Architecture Core program*

This course will focus on developing proficiency in the use of B.I.M. (Building Information Modeling) software while at the same time looking at how this tool and other related computer technologies are changing the way that information is generated and utilized within the practice environment and shared between the various parties involved in the design, development, documentation and construction process. Students will learn the process of constructing the B.I.M. model, embedding appropriate information into the model, organizing the model according to best office practices and investigating the model in the construction documentation process. Using the model as a visualization tool and as a means of assessing building cost and materiality will also be examined. (3 credits) *Fall, Spring*

**ARCH 490 – Cultures in Contact (A Study Abroad Seminar)***(Offered in several programs; see advisor or Dean of the college or school which is appropriate for your major)**Prerequisite: Junior standing*

Cultures in Contact is designed as a companion course to those off-campus study programs offered by a variety of majors at Roger Williams University. Students learn how to focus their observations of another culture in order to deepen and expand their understanding of the country and culture in which they are studying and to reflect critically upon their own cultures as well. (3 credits) *Special offering*

**ARCH 501 Elements and Principles of Architectural Design***Co-requisite: ARCH 511 Graduate Core Design Studio I*

This course is a companion to ARCH 511 Graduate Core Design Studio I. It is an introduction to the essential elements of architecture and the basic principles of its composition. Design and conceptual thinking skills will be developed through lectures, diagramming and case study analysis of important architectural precedents. These assignments will further skills development work being conducted within the companion studio course. (3 credits) *Summer*

**ARCH 511 Graduate Core Architectural Design Studio I***Co-requisite: ARCH 501- Elements and Principles of Architectural Design*

This course is an intensive introduction to architectural design and the basic skills needed to analyze and communicate architectural design intentions using 2d and 3d representational techniques. The course will introduce principles of two and three-dimensional composition within the context of basic architectural issues of shelter, space and tectonics. Compositional issues of scale, proportion, organization, hierarchy, movement, color and light will be developed through lectures, sketch assignments and fully rendered architectural explorations. Issues of site, shelter and tectonics will be explored through a variety of abstract conditions from urban to rural and level to sloping sites. (5 credits) *Summer*

**ARCH 512 Graduate Core Architectural Design Studio II:***Prerequisite: ARCH 511 Graduate Core Architectural Design Studio I*

This studio course builds on Graduate Studio I by introducing more complex notions of site, climate and culture while also integrating more complex programmatic and tectonic responses to user needs. More complicated notions of building organization, spatial hierarchy, circulation, structure and enclosure will be explored in plan and in section. A variety of sites will serve as the catalyst for an investigation of how the fundamental need for shelter and material expression are affected by regional and cultural traditions and particular climatic conditions. The urban site is explored through a focus on the buildings relationship to the public realm and to the varied programs that animate it in plan and are elaborated on in the sectional development of the building. Faculty lectures will be integrated into the semester and a digital portfolio will be required. (5 credits) *Fall*

**ARCH 513 – Comprehensive Project Design Studio**

*Prerequisite: Completion of one ARCH 413 studios, Arch 331, 332, 333, 435*

This studio will provide the opportunity for advanced students working individually and/or in small groups, to bring all components of their architectural education together to focus on an architectural design problem/project. Students will fully assess an architectural problem, designated site and relevant precedents in order to establish appropriate design criteria. Advancing the problem/project through conceptual, schematic and design development stages students will respond to programmatic, structural and environmental systems, accessibility and life-safety issues. They will advance their design resolution from site response, building materials and assemblies selection and attention to sustainable design criteria to the detailed development key spaces. Each individual or group will prepare construction contract documentation, drawings and outline specifications, for key components of the design project. Students will prepare a project assessment to evaluate the appropriateness of their problem/project design response to the architectural program and related cultural and environmental issues. (5 credit hours) Fall, Spring, Summer

**ARCH 515 – Graduate Architectural Design Studio**

*Prerequisite: Completion of ARCH 413, ArCH 416,, ARCH 331, 332, 333, 434*

Students may select from a number of directed studios in fulfilling the Graduate Architectural Design Studio requirement for the Master of Architecture degree. Offerings at this level are enriched by studios focusing on topics such as urban design, housing, sustainable design, contemporary technologies, interior architecture, historic preservation and others. (5 credit hours) Fall, Spring, Summer

**ARCH 516 – Graduate Topical Design Studio: Urban**

*Prerequisite: Enrollment in the MS in Architecture program or permission of instructor*

This graduate design studio examines the role of Architecture as a critical component of the larger built environment and of the public realm. As such, the projects engaged within this studio take on issues and concerns impacting local and/or global communities. This studio also explores the role of architecture in relation to allied disciplines such as Urban Design, Historic Preservation, Planning and Landscape Architecture, and in relation to the various formal and informal constituencies that influence the shape of the urban fabric. As the graduate offering of Arch 416 lectures and reviews are shared; however, grading criteria, assignments and the quality of design / research will reflect graduate level coursework and achievement expectations. (5 credits) Fall, Spring

**ARCH 521 – Sustainable Design Seminar**

*Prerequisite: Graduate standing or Senior standing w/ permission of the instructor*

This seminar covers core concepts of sustainable building, development and land use. Topics will include trends in green building legislation on local and national levels; researching sustainable products, materials, systems and technologies; case studies of high performance buildings and architectural design; integration of architecture and MEP systems; the U.S. Green Building Council's Leadership in Energy and Environmental Design building rating program (LEED); the relationship between 'green' building in context and transportation and land use; indoor air quality, daylight and natural ventilation; tools for sustainable design analysis; existing building assessment and improvement; balancing the costs and benefits of sustainable design. (3 credits) Fall

**ARCH 522 – Environmental Design Research**

*Prerequisite: Senior standing*

Environmental Design Research introduces diverse theoretical approaches and research methods, for assessing inhabited environments with social and energy sustainability criteria. Readings include contributions from environmental psychology, anthropology, sociology, and cross-cultural studies to examine a variety of buildings in relations to a broad range of uses by diverse inhabitants as well as from the energy assessment literature as preparation for fieldwork that generates design

criteria for renovations or new construction. This course provides recommendations useful to the administrators of public facilities and local community service organizations. (3 credits) Spring

**ARCH 524 – Evolution of Urban Form**

*Prerequisite: AAH 121-122 or permission of instructor*

*Cross-Listed with ARCH 324*

Examines and analyzes the evolution of urban form, from Neolithic villages to cities of the emerging modern era. Addresses why cities have taken the forms they have, and their formal, physical, and spatial elements. Students consider urban structure and dynamics relative to architectural expression, building types, and urban open spaces. As the graduate offering of Arch 324 lectures are shared; however, grading criteria, assignments and quality of independent research will reflect graduate level coursework and achievement expectations. (3 credits) Annually

**ARCH 529 – History of Landscape Architecture**

*Prerequisite: AAH 121-122 and Senior Standing w/ permission of instructor or dean*

*Cross-listed with ARCH 329*

History of Landscape Architecture is a survey of the development of man's relationship to and shaping of the land. This course will survey the landscape and gardens from the beginnings of civilization until contemporary times, although the primary emphasis will be on the Italian Renaissance, the gardens of France in the age of Louis XIV, and the English garden. The course will also include contributing cultures, such as China, India and Japan, as well as study the growth of parks in the 19th century, particularly in the United States. As the graduate offering of Arch 329, lectures are shared; however, grading criteria, assignments and quality of independent research will reflect graduate level coursework and achievement expectations. (3 credits) Annually

**ARCH 530 – Special Topics in Architecture**

*Architecture Elective*

*Prerequisite: Graduate standing in B.S./ M. Arch. Program, or Senior standing with permission of the instructor*

Variable content course dealing with significant aspects and themes in Architecture, in the areas of history/theory of architecture, environmental and behavior; technical systems, and professional practices. (3 or 4 credits) Special offering

**ARCH 533 – Detailing the High-Performance Building Envelope**

*Prerequisite: Graduate standing in M.Sc.in Arch. or M.Arch programs or Senior Standing w/ permission of the instructor or Dean*

The course examines the issues associated with designing high-performance building enclosures both at a conceptual level and at a detailed level. Concepts of advanced building envelopes that are integrated with other building systems are examined. Tools and methods for assessing the life cycle of an assembly, for choosing materials and for optimizing façade configurations to achieve satisfying internal comfort, thermal, light, and acoustic performance are studied. Modes of assembly that minimize heat loss are evaluated using computational tools. Field trips to fabrication facilities and construction sites cast light on production processes. The dynamics of the interaction between architect and façade consultant and specifier are also investigated. (3 credits) Spring

**ARCH 535: Introduction to Proactive Simulation**

*Prerequisite: Graduate standing or Senior standing w/ permission of the instructor*

The elective course is an introduction to building performance simulation (BPS) methods and tools. It is concerned with the proactive integration of BPS within the design process. The course will introduce the students to the workings of several software tools that complement each other in the area of energy, bulk air flow, and lighting simulation. The course also brings Integrated Project Delivery concepts and methods to bear and critically examines the role of project data management into emerging design methodologies. The course prepares students to think strategically when approaching modeling as a well as developing an ability to examine critically mod-

eling outputs. The course is grounded in reality by also introducing on-site data acquisition and building post-occupancy evaluation techniques. (3 credits) Spring

### ARCH 536 – Special Topics in Sustainable Design

Architecture Elective

Prerequisite: Graduate standing in Architecture or Senior standing w/ permission of the instructor

Special Topics in Sustainable Design is a variable content course dealing with significant aspects of Sustainable Design in Architecture. (3 or 4 credits) Special offering

### ARCH 537 – Special Topics in Urban Design

Architecture Elective

Prerequisite: Graduate standing in Architecture, or Senior standing w/ permission of the instructor

Special Topics in Urban Design is a variable content course dealing a significant aspect and themes in Urban Design such as Urban Ecology, Community Development, Planning or Landscape Architecture. (3 or 4 credits) Special offering

### ARCH 538 – Special Topics in Digital Media

Architecture Elective

Prerequisite: Graduate standing in Architecture, or Senior standing w/ permission of the instructor

Special Topics in Digital Media is a variable content course dealing with a significant aspect or theme in Digital Media as it relates to architectural design, theory, or practice. (3 or 4 credits) Special offering

### ARCH 542 – Professional Practice

Prerequisite: Senior standing

Introduces students to architectural business and practice management; codes, regulations and laws; administration of the construction contract; and emphasizes the architect's professional and legal responsibilities. Also addresses the traditional arrangements for project design and construction, and difference in relationships with the client between the design and construction phases. Lectures, discussions, and assignments address each subject in order to develop an understanding of the moral, legal and general responsibilities of the design professional. (3 credits) Fall, Spring

### ARCH 524 – Evolution of Urban Form

Prerequisite: AAH 121-122 or permission of instructor

Cross-Listed with ARCH 324

Examines and analyzes the evolution of urban form, from Neolithic villages to cities of the emerging modern era. Addresses why cities have taken the forms they have, and their formal, physical, and spatial elements. Students consider urban structure and dynamics relative to architectural expression, building types, and urban open spaces. As the graduate offering of Arch 324 lectures are shared; however, grading criteria, assignments and quality of independent research will reflect graduate level coursework and achievement expectations. (3 credits) Annually

### ARCH 561 – Landscape Architecture: Theory and Practice

Architecture Elective

Cross-Listed with Arch 461

Prerequisites: ARCH 321, and senior standing

Introduces the theoretical underpinnings and design processes of landscape architecture as a discipline and as a contemporary practice. Modes of interpreting, inventorying, and working with the landscape and the materials used in landscape construction will be examined. Class lectures, case study research and simple design exercises will look at landscape design at multiple scales. The central role of landscape design as an integral component of sustainable development practices will also be examined. As the graduate offering of Arch 461 lectures are shared; however, grading criteria, assignments and the quality of independent research will reflect graduate level coursework and achievement expectations. (3 credits) Annually

### ARCH 572 – Urban Design Theory from the Industrial Revolution to the Present

Architecture Elective

Prerequisite: Senior standing

The Industrial Revolution brought about the radical transformation of the traditional city. We will examine the changes that brought about the rise of the Industrial City, and look at the wide array of reactions to it –utopian and otherwise- including the modern movement. We will then consider the legacy of the modern movement and the post-modern critique. Finally we will consider the dynamic processes that continue to shape the contemporary city and have caused the more recent restructuring of our metropolitan regions and fostered the growth of “Global Cities”. Challenges such as urban sprawl, the decline of the public realm, and the degradation of the natural environment will be considered in the light of “The Edge City”, “The Informational City”, “Sustainable Urbanism” and “Landscape Urbanism”. Theories of Urban Design will be examined not purely as formal operations, but also as products of a particular historical, social, political and economic context. Special attention will be given to the identification of those urban ideas or values whose persistence, in the face of tremendous change, place them at the core of any future consideration of the form of the city and the role of architecture within it.

### ARCH 573 – Modernism in the Non-Western World: A Comparative Perspective

Architecture Elective

Prerequisite: ARCH 325 or AAH 323, Senior standing

Provides an in-depth examination of modern architecture in the non-Western world, i.e., outside the United States and Europe. The major thrust of the course is to investigate critically how modernism has disseminated and/or articulated in the non-Western world. Discusses the works of predominant urban designers and architects, key theoreticians, Western and non-Western, in different parts of the world as manifested from the times of its emergence during the Colonial period to the present time. Elaborates upon varied perceptions of and theoretical approaches to modernity, bringing students up to date on present responses to global architecture. (3 credits) Fall

### ARCH 574 – Regionalism in Architecture

Architecture Elective

Prerequisite: Senior standing

Provides the necessary theoretical framework to examine the processes that result in the regional particularization of architecture as well as substantive knowledge of architectural context and architectural practice in various regions of the world. Addresses the value and significance of the way local conditions contribute to the formation of architecture, and critically distinguishes between the various ways architects have tried to express regional identity. (3 credits) Spring

### ARCH 576 – Theoretical Origins of Modernism

Architecture Elective

Prerequisites: ARCH 325, Senior standing

This course introduces students to some of the key theorists who laid the philosophical groundwork for modern architecture, among them Laugier, Durand, Ruskin, Viollet-le-Duc, Morris, Wagner, and Loos. It emphasizes close readings of original theoretical texts and evaluation of subsequent critical assessments. It analyzes thematically the concerns of modern thinkers as they emerge and then transform across time – rationalism, the artist as romantic individualist, architecture as an agent of social reform, the craft ideal, organicism, the questions of ornament and style. Lectures and discussions explore the theorists' pivotal ideas, their influence on the contemporary world of architectural practice, and their relation to the intellectual, social, and political predicaments of the day. (3 credits) Alternate Spring

### ARCH 577 – The American Skyscraper

Prerequisite: Senior standing in the B.S./M.Arch. program

The course explores the American skyscraper in historical perspective, beginning with mid-19<sup>th</sup> century developments in technology and urbanization and ending with the late 20<sup>th</sup>-century phenomenon of the skyscraper as an American export abroad. Key stages in the development

of the skyscraper are examined in light of technological innovations, economic change, and the workplace. As a modern building type bound up with the culture of cities, the skyscraper serves as a compelling lens through which to assess architecture's engagement with the experience of modernity—in light of literature, the fine arts, photography, and film. (3 credits) Annually

#### **ARCH 586 – Processing**

*Prerequisite: Graduate standing in M.Sc.in Arch. or M.Arch programs or Senior Standing w/ permission of the instructor and introductory CAD experience (ARCH 287) or its equivalent*

The course explores Algorithmic Design and Associative Modeling in Architecture. Computational Geometry is explored using Generative Algorithm-based methodologies, or Parametric Design. Investigations into form generation using parametric variables to understand the behavior of multiple architectural systems, such as assembly logics, material characteristics and manufacturing constraints in the definition of simple components are then proliferated into larger systems and assemblies. Instead of drawing objects, Generative Algorithmic modeling employs numbers, mathematics and calculations as base data to generate form with infinite results. Hundreds of formal variations can be made by adjusting basic geometrical parameters. (3 credits) Fall

#### **ARCH 587 – Advanced Computer Applications in Design**

*Architecture Elective*

*Prerequisites: ARCH 287 and Graduate standing or permission of instructor and Dean*

Advanced computer aided design using high-end interactive three-dimensional software, with particular emphasis on animation, modeling, dynamic and rendering techniques, as they relate to architectural design and production processes. (3 credits) Fall

#### **ARCH 588 – Digital Manufacturing**

*Architecture Elective*

*Prerequisites: ARCH 287 and Graduate standing or permission of instructor or Dean*

Advanced CAD-CAM (Computer Aided Design – Computer Aided Manufacturing), Rapid Prototyping and Reverse Engineering techniques are explored as Digital Manufacturing techniques, in relationship to architectural design and production processes. (3 credits) Spring

#### **ARCH 589 – 4D**

*Prerequisite: Graduate standing in M.Sc.in Arch. or M.Arch programs or Senior Standing with permission of the instructor and introductory CAD experience (ARCH 287) or its equivalent.*

The course explores Digital Cinematography using Animation principles and toolsets in a time-based 3-D modeling software. In addition to Turntable, Motion Path, Motion Trail, Animation Snapshot & Sweeps, Keyframe, non-linear and advanced animation editing tools (Graphing, Trax, Dope Sheet, Blends & Expressions) are explored. Project investigations center on 4-D (fourth dimension), or time-based space (the spatialisation of time) using parametric variables to control and understand the behavior of multiple architectural logics in the definition of a scripted narrative, or storyboard. Cinematic techniques are analyzed and applied to a filmic short authored to DVD, including Titles, Direction (Choreography), CG, MoCap (Motion Capture) / Chroma key, Post Production, Sound and Credits sequencing. Advanced experience with Modeling is assumed. (3 credits) Spring

#### **ARCH 593 – Sustainable Paradigms**

*Architecture Elective*

*Prerequisites: Senior standing*

Sustainable Paradigms is a graduate architectural elective seminar/lecture course that primarily focuses on the interdependencies of ecological, social, cultural, economic and technological issues pertaining to architectural/urban/landscaped environments. It views them in a holistic manner and examines existing values/paradigms on sustainability and focuses on emerging conditions to rethink, reevaluate and update our relationship with nature and resources while appropriating innovative sustainable technologies and renewable means for attaining a better quality of life. The course explores how sustainable principles are applied to both integrated design

and construction, as well as to the assessment of existing built environments, including building envelope and technical building systems. Its primary goal is to demonstrate, through cases, how sustainability issues can be part of planning efforts, from macro (global, regional social and cultural in urban and suburban contexts) to micro scale (local; as part of community, at home or work place). The course will also investigate and develop research methodologies to evaluate local/regional environments using sustainability criteria. (3 credits) Fall

#### **ARCH 594: Urban Ecology**

*Prerequisite: Graduate standing or Senior standing w/ permission of the instructor*

Urban Ecology focuses on issues of sustainable urbanism and examines the interdependencies of social, cultural, ecological, economic and technological variables that pertain to the planning and design of sustainable communities in urban spaces. The course holistically explores how several nested scales of design interventions can synergistically produce more livable and ecologically viable urban environments. The course investigates and develops research methodologies to evaluate local / regional environments including global contexts using sustainability criteria to help the designer tackle brown / grey field redevelopment and retrofit / restructure existing urban environments according to sustainability standards. (3 credits) Spring

#### **ARCH 601: Graduate Colloquium**

*Prerequisite: Graduate standing in M.Sc. in Architecture*

The colloquium is a required course for all Master of Science in Architecture students. The course introduces the program, its peoples and their research interests in diverse concentration areas. It is aimed at orienting students within an environment of broad intellectual inquiry. The student begins to chart a research agenda and explore potential research agendas/interests with advisors. Preceded with assigned readings prior to class start and followed by a final paper, the course unfolds as an intensive two-week long seminar in which ideas, viewpoints, and methods of inquiry across areas of concentration are discussed. As common core course, it prepares the student for graduate-level inquiry in the area of concentration, while also situating their investigation within a broader collaborative and interdisciplinary framework. The course balances time spent with students and faculty in all concentrations and time with faculty and an advisor in the student's concentration area. (3 credits) Summer

#### **ARCH 606: Field Research Seminar**

*Prerequisite: Graduate standing in M.Sc.in Arch. or M.Arch programs or Senior Standing w/ permission of the instructor*

The Field Research Seminar takes students in the field (locally, regionally, nationally or abroad) to meet with professionals, visit and document existing state of the art projects. As a common core course in the Master of Science in Architecture, it helps the student to become acquainted with precedents, buildings, technologies, design methods, and actors in the area of concentration, while also acknowledging the interdisciplinary context around the area of concentration. Some site and office visits are common across several areas of concentration while others are unique to one area of concentration. Students prepare a document synthesizing their research. Non-resident students can take the course as a hybrid online course with limited on-site presence and independent field research. (3 credits) Summer

#### **ARCH 613 – Graduate Thesis Design Studio**

*Prerequisite: ARCH 513, 515, 641*

Arch 613 is focused on the development of a thesis project in the design studio from the proposition put forward and developed in the research seminar, and its subsequent documentation through the production of a thesis project document. The thesis is more than simply the student's final project- It is a final project that demonstrates competence at integrating building systems and materials, social, formal and urbanistic concerns into the design of a building, yet goes beyond this to make a speculative proposition about what architecture should be. (5 credits) Fall, Spring

**ARCH 616: Collaborative Workshop**

*Prerequisite: Graduate standing in M.Sc.in Arch. or M.Arch programs or Senior Standing w/ permission of the instructor*

In this course, students from diverse areas of concentration work collaboratively on a design problem with multiple dimensions (ecological, urban, architectural, etc) rooted in the reality of a community (local, domestic or abroad). Under the guidance of a faculty in her/his area of concentration, each student contributes to the collaborative effort from the particular point of view of her/his area of concentration. The workshop uses data collected in the Field Research Seminar (ARCH 606). The workshop produces a coherent design proposal that capitalizes on the synergistic integration of the various viewpoints and methodologies found in each area of concentration. Students learn to work in multidisciplinary teams and learn leadership skills in complex, reality-based, multidimensional design problems. Each student contributes to the, research and design effort and to the preparation of the workshop's final report and graphic documentation. (4 credits) Summer

**ARCH 633: Independent Graduate Research Thesis**

*Prerequisites: Graduate standing in M.Sc.in Arch., ARCH 641 Graduate Research Seminar*

This course is tailored for Master of Science in Architecture students who do not desire to do a studio-based design thesis but are interested in doing a written thesis under the guidance of an advisor in their area of concentration. Students engage in thorough research over at least a semester and prepare a written document synthesizing their research. The thesis should clearly relate to the area of concentration. Student can also work with a second advisor in the same or another discipline or area of concentration to broaden the scope of their inquiry. Dual-degree M.Arch./MSc. in Arch. students must complete this course concurrently to their design-based M.Arch. thesis (ARCH 613). Dual degree students should refer to the directives on requirements to complete the written thesis with the MSc in Arch. program coordinator. (3 credits) Spring

**ARCH 641 – Graduate Thesis Research Seminar**

*Prerequisite: Completion of two ARCH 413 studios*

A graduate research seminar which investigates through readings, discussions, and faculty and student presentations, issues which should be at the core of the development of an independent thesis project proposal, and which are critical for full engagement with the profession of Architecture and the pursuit of lifelong learning: -Ideas/Values: Theoretical, Philosophical and Ethical Concepts; -Site: The Physical and Cultural Context; -Use/Habitation: Programming, Project definition and Project Planning; -Materials/ Technology: Integration of Concepts and Properties; -Creativity/ Communication: Design Thinking, Visual and Verbal Communication (3 credits) Fall, Spring

**ART AND ARCHITECTURAL HISTORY****AAH 121 – History of Art and Architecture I**

*Fulfills a course requirement in the Art and Architectural History Core Concentration*

An introduction to the visual cultures of the ancient and medieval worlds, including Africa, the Americas, Europe, the Middle East and Asia. Key issues and monuments focus the discussion, and works of art, including painting, sculpture and architecture, are examined in relation to their political, religious and social contexts. (3 credits) Fall, Spring, Summer

**AAH 122 – History of Art and Architecture II**

*Fulfills a course requirement in the Art and Architectural History Core Concentration*

*Prerequisite: AAH 121*

A continuation of History of Art I, this course introduces the visual cultures of Africa, the Americas, Europe, the Middle East and Asia beginning with the Renaissance and ending with our own modern day. Using key issues and monuments as the focus of discussion, the works of art covered include painting, photography, film, sculpture and architecture. Emphasis is placed

on the political, religious and social contexts of the object, as well as the artistic process. (3 credits) Fall, Spring, Summer

**AAH 305 – Theory and Methods of Art and Architectural History**

*Prerequisite: AAH 121-122*

This course will deepen the students' understanding of the modes of analysis in the history of the arts and architecture and their philosophical bases, including connoisseurship, iconography, theories of the evolution of art, psychoanalysis, the psychology of perception, issues of gender and ethnicity, and theories of art criticism. Critical discussion of readings and writing will be stressed. (3 credits) Annually

**AAH 311 – History of American Art**

*Fulfills a course requirement in the Art and Architectural History Core Concentration*

*Prerequisite: AAH 121 – 122*

Survey of the history of painting, sculpture, and the "minor arts" in the United States to show how these arts have expressed American ways of living and how they have been related to American ideas. (3 credits) Spring

**AAH 312 – History of Modern Art**

*Fulfills a course requirement in the Art and Architectural History Core Concentration*

*Prerequisite: AAH 121 – 122*

A survey of modern art from 1863-1963 that examines the major movements of the historical avant-garde in painting, sculpture, and photography. Major themes include the construction of gender, the notion of the primitive, expression, approaches to abstraction, responses to the city, art and politics in the 1930s, and the post-World War II cultural shift from Europe to America. Aspects of modernism as an international phenomenon will be addressed by reference to work from the urban centers of Europe, central Europe and Russia, the USA, South America, and Asia. (3 credits) Fall

**AAH 313 – History of African Art**

*Fulfills a course requirement in the Art and Architectural History Core Concentration*

*Prerequisite: AAH 121-122*

A survey of the arts of Sub-Saharan Africa, including painting, sculpture, textiles, architecture and performance arts. Special emphasis is placed on these arts in the context of ritual. We will discuss perceptions and ideologies which have shaped the study of African Art and influenced our present understanding of the continent. (3 credits) Alternate Spring

**AAH 319 – History of Italian Renaissance Art**

*Fulfills a course requirement in the Art and Architectural History Core Concentration*

*Prerequisite: AAH 121 – 122*

The major artists who created the Italian Renaissance style in painting, sculpture and architecture are considered in their cultural context. Topics include the formation of the Renaissance style, the significance of subjects and forms based on Classical Antiquity, the development of the High Renaissance by Leonardo da Vinci, Raphael and Michelangelo, and the interconnectedness of Renaissance art forms. (3 credits) Spring

**AAH 321 – Art and Architecture in the Classical World**

*Fulfills a course requirement in the Art and Architectural History Core Concentration*

*Prerequisite: AAH 121-122*

An in-depth investigation of Classical arts within the context of the institutions, values, and ideas that emerged in the civilizations of Ancient Greece and Rome. Analyzes special topics in ancient architecture such as the art and architectural theory and practice of antiquity, with the intent of accounting for the goals and aspirations of specific cultures, societies, and patrons. Topics investigate how Classical societies interacted with each other and with other cultures outside the

sphere of Western civilization. Geographical areas of examination include mainland Greece and the Mediterranean islands, Asia Minor, Italy, North Africa, and Western Europe; the time frame spans from circa 750 BC to circa 500 AD. (3 credits) *Annually*

#### **AAH 322 – Art and Architecture in the Medieval World**

*Fulfills a course requirement in the Art and Architectural History Core Concentration*

*Prerequisite: AAH 121-122*

An in-depth investigation of the arts of the Middle Ages within the context of the institutions, values, and ideas that emerged in the civilization of the Early Christian, Byzantine, and Western Medieval era. Analyzes special topics in Medieval art and architecture such as art and architectural theory and practice of the Middle Ages, with the intent of accounting for the goals and aspirations of specific cultures, societies, and patrons. Topics investigate how medieval cultures interacted with each other, and with other cultures outside the sphere of Western civilization. Geographical areas of examination include Western and Eastern Europe, Asia Minor, and North Africa; the time frame spans from circa 300 to circa 1500 AD. (3 credits) *Annually*

#### **AAH 323 – Art and Architecture in the Islamic World**

*Fulfills a course requirement in the Art and Architectural History Core Concentration*

*Prerequisite: AAH 121-122*

Explores the syncretic nature of Islamic arts and architecture having taken root in very diverse cultural and geographic areas spanning the Middle East, North Africa, Spain, Sub-Saharan Africa, the Indian subcontinent, and Far East Asia. Lectures and readings will investigate the impact of Islamic regulations on religious and secular architecture, and will discuss the importance of concepts such as decoration and ornamentation. The development of a specific artistic approach, giving rise to an emphasis on geometry, calligraphy and “the arabesque” shall be investigated through examples from architecture, fiber arts, metal work, glass, ceramics, stucco and stone carving, and miniature painting. (3 credits) *Annually*

#### **AAH 330 – Topics in Art and Architectural History**

*Fulfills a course requirement in the Art and Architectural History Core Concentration*

*Prerequisite: AAH 121-122*

Variable content course dealing with the interactions of arts and architecture in different parts of the world at various time periods. (3 credits) *Special offering*

#### **AAH 421 – Issues in Contemporary Art**

*Fulfills Visual Arts Studies major requirement and a course requirement in the Art and Architectural History Core Concentration and/or minor*

*Prerequisite: AAH 121 – 122 and one 300 level AAH course*

A course addressing major conceptual and thematic concerns in art since the 1960s. Movements and approaches covered include: Minimalism, Conceptualism, Appropriation, Installation, Abstraction, Video, Photography, and Performance. The themes explored range from racial and sexual identity, to globalization, to public space, to the environment, to outsider art. Course content will be presented in the form of works of art from the 1960s to the present, critical essays that contextualize the work and field trips to galleries, openings, museums and studios. Satisfies Feinstein Service Learning in Visual Arts Studies, and Art and Architectural History. (3 credits) *Spring*

#### **AAH 423 – Nature and Art**

*Prerequisite: Junior standing*

An interdisciplinary seminar where students will have the opportunity to investigate and question how nature, through our perception of it, becomes a cultural construct. The concepts of Natural History, Landscape, Body Perception, Biophilia and Environmental Ethics are some of the core issues that will be discussed in this seminar. Various aspects of the natural world will be analyzed in relation to how artists or trends, from different cultures and time periods, have been used and inspired by them and how we might still continue to do so today. (3 credits) *Special offering*

#### **AAH 430 – Special Topics in Art and Architectural History**

*Prerequisite: AAH 121-122 and one 300 level AAH course*

Variable content course dealing with significant aspects and themes in the development of Art and Architectural History, such as art institutions and historiography, the nature of creativity and originality, the making of the art object, self-representation and the artist's identity, architecture and worship, representations of the body, rituals and public space, representing nature, and symbols of authority. (3 credits) *Special offering*

#### **AAH 450 – Senior Thesis**

*Prerequisite: Senior standing, consent of AAH program faculty and Dean*

Optional course for senior-level Art and Architectural History majors; designed to study an issue or topic in depth. Students are required to produce a work of historical research suitable for publication in student-level journals in Art and Architectural History. Topics determined by the expertise of the instructor and the anticipated interests of the students. (3 credits) *Annually*

#### **AAH 497 – Senior Seminar**

*Prerequisites: Senior standing, AAH 305, AAH 121-122 and one 300 level course*

*Fulfills a course requirement in the AAH core concentration*

This is a course designed to study a topic of art and / or architectural history in depth. Students are expected to produce a research work suitable for student level publication in the discipline. Topics may include subjects of expertise of the faculty and the interests of students. (3 credits) *Spring*

#### **AAH 530 Special Topics in Art + Architectural History**

*Prerequisite, Graduate standing, or Senior Standing with permission of the instructor*

Variable content course dealing with significant themes, periods and individuals in Art + Architectural History. The course is offered in a graduate seminar format, with graduate academic and scholarly expectations as well as support for faculty and student pursuits. The course may be taken more than once depending on topical content. (3 credits) *Special offering*

## **BIOLOGY**

#### **BIO 103 – Biology I and Lab**

*Fulfills a course requirement in the Biology Core Concentration*

*BIO 103/104, may be used to fulfill the Core Curriculum science requirement.*

Designed as a foundation for science-based disciplines, this course begins with a survey of basic chemistry as it applies to the structure and function of cells. An exploration of cellular physiology includes organelle function, metabolic processes and human organ systems highlighted as an example of the intergrated workings of different cell types. The laboratory reinforces the concepts of the class and includes techniques in biological chemistry, microscope use and instrumental analysis. (4 credits) *Fall*

#### **BIO 104 – Biology II and Lab**

*Fulfills a course requirement in the Biology Core Concentration*

*BIO 103/104 or BIO104/NATSC 226 may be used to fulfill the Core Curriculum science requirement*

*Students must complete BIO 104 with a grade of C- or higher in order to continue in the biology or marine biology program*

This course highlights the mechanisms of evolution, the diversity of life, population, and the principles of ecology. Laboratory and field exercises reinforce these concepts and develop technical and analytical skills. (4 credits) *Spring*

**DSGN 310 – Corporate Identity***(Formerly DSGN 376)**Prerequisite: DSGN 100, 210, 110*

Students investigate the artistic and intellectual methodology involved with the development of corporate identities. Students design a unified visual system for an organization. Through research, the visual needs of the company are identified and applied to a range of formats. A logo, stationery, standards manual, and home page are fundamental to most identity systems. Class time is spent in the Macintosh Computer Lab unless otherwise specified. (3 credits) Spring

**DSGN 320 – Publication Design***Prerequisite: DSGN 100, 110, 210**Fulfills a course requirement in the Graphic Design Core Concentration*

Students produce a publication prototype and companion web site. The strengths and limitations of both print and electronic publication design are studied to create a visual collaboration between both formats. A masthead, contents page, feature spread designs, and home page are among the requirements of the course. Traditional book design including the history of publication design is discussed. Class time is spent in the Macintosh Computer Lab unless otherwise specified. (3 credits) Fall

**DSGN 430 – Special Topics in Graphic Design***Prerequisite: DSGN 100, 110, 210**Fulfills a course requirement in the Graphic Design Core Concentration*

This special topics course in graphic design focuses on specific areas of design study not regularly offered by the University. The variety of possible topics may include, but is not limited to: Package Design, Design for the Music Industry, Museum Graphics, and Animation. (3 credits) Special offering

**DSGN 440 – Art Direction***(Formerly DSGN 486)**Prerequisite: DSGN 100, 110, 210, 300, 310, 320*

The emphasis of this course is on overall research skills needed by professional designers. Students design a semester-long project. They are responsible for researching the assignment, determining the budget, gathering or generating all necessary copy, obtaining production bids, and developing a full presentation of the project in pre-press form. A breakdown of materials, expected costs, workflow, time-line, paper specifications, photography, illustration, binding, and other relevant information is required. (3 credits) Spring

**DSGN 450 – Portfolio***(Formerly DSGN 476)**Prerequisite: DSGN 100, 110, 210, 300, 310, 320, 440*

Students prepare a professional portfolio. Pieces are refined into a coherent statement that defines, at once, the student's career and artistic visions. Projects are assigned to focus the direction a student wishes to take. The objective is to create a polished presentation for employment opportunities or graduate studies. Practical information about self-promotion and the business of graphic design is emphasized. (3 credits) Spring

**GREEK (also see listings under Languages)****GRK 101 – Elementary Ancient Greek I**

The first course of a two – course sequence intended to provide the Essentials of the grammar and syntax of ancient Greek, both classical and koine. Reading of easy passages from classical prose writers, including Plato and Herodotus and the New Testament. Introduction to the influence of ancient Greece on western culture. No previous knowledge of Greek is required (3 credits) Fall

**GRK 102 – Elementary Ancient Greek II***Prerequisite: Successful completion (C or higher) of Elementary Greek I or equivalent*

The second course of a two course sequence intended to provide the Essentials of the grammar and syntax of ancient Greek, both classical and koine. Reading of easy passages from classical prose writers, including Plato and Herodotus and The New Testament. (3 credits) Spring

**GRK 201 – Intermediate Ancient Greek I***Prerequisite: Successful completion (C or higher) of Elementary Greek II or equivalent*

The first course of a two-course sequence intended to provide, through readings in the original language, an introduction to ancient Greek literature from 5th Century Athens, specifically Plato and Thucydides. Careful attention will be paid to grammar, style and the scholarly tradition surrounding Classical Studies. (3 credits) Fall

**GRK 202 – Intermediate Ancient Greek II***Prerequisite: Successful completion (C or higher) of Elementary Greek II or equivalent*

The second course in a two-course sequence intended to provide, through readings in the original language, an introduction to ancient Greek, specifically Plato and Xenophon. Careful attention will be paid to grammar, style and the scholarly tradition surrounding Classical Studies (3 credits) Spring

**HISTORIC PRESERVATION****HP 150 – Introduction to Historic Preservation**

Introduction to the study, interpretation and preservation of cultural, natural and social resources, while considering ways to best plan for our future, informed by the study of our past and the engagement of stakeholders today. Lectures and discussion are augmented by visiting speakers and field trips to sites and communities. The range of career opportunities is explored. (3 credits) Fall

**HP 160 – American Buildings and the Western Tradition**

A chronological survey of architecture in America, this course serves as an introduction to the architects, styles, and construction in America from the 17th century to World War II. Issues of style, aesthetics, technology, and socio-cultural history are explored through critical analysis of the built form. The course addresses vernacular and high-style architecture, acknowledging European antecedents and their American variants using an array of visual resources coupled with field trips. (3 credits) Spring

**HP 175 – Historic Building Documentation***Prerequisite: HP 150 or permission of instructor*

This course addresses established documentation programs, tools and techniques; terminology of building elements, spaces and systems; field-recording, reading and preparing architectural drawings; photographic recording and image management; and written architectural descriptions; and the role of documentation in developing project documents for preservation. Class lectures and demonstrations are coupled with field-based work. (3 credits) Spring

**HP 202 – Principles of Preservation Planning**

This class explores the philosophies and methods of planning and contemporary, related preservation practices in the United States, through lectures, readings, discussion, visiting lecturers, and site visits. Subjects addressed include planning history, public policy, legislation, funding, comprehensive plans, zoning, historic districts, design guidelines, easements, Main Street programs, transportation, homeownership, smart growth, and new urbanism. (3 credits) Spring

**HP 224L – Archival Research**

*Prerequisite: HP 150*

Research in historical preservation entails: site-specific research related to the physical fabric of a building, community, engineering feature, landscape or archaeological site; or more generalized research on context—social, cultural, and technological. This course employs the research methods and resources needed to complete the nomination of a site to National Register of Historic Places (NR) in accordance with National Park Service standards, particularly as they relate to Statement of Significance and Description. Classroom discussions will be linked to a series of field trips to a wide range of archival repositories and relevant neighboring sites. Through these, students consider the significance or meaning of a place, how we determine these attributes, and how we conduct research that supports our argument. (4 credits) Fall

**HP 301 – Principles of Architectural Conservation**

*Prerequisites: HP224L or Junior standing*

Provides an overview of the professional role of the architectural conservator in the preservation of historic structures. It addresses architectural styles, construction technology, and dating techniques; the composition, properties, uses, and conservation of traditional building materials and systems; conservation standards, treatments and practices. Site visits supplement lectures, discussions, readings and guest lecturers. (3 credits) Fall

**HP 341 – Pre-Industrial America**

*Prerequisites: AAH 121-122*

This course explores the rich material culture of pre-industrial America: its landscape as found and altered, architecture, and craftsmanship in the production of utilitarian and decorative objects. It focuses on traditional means of production and conveyance of craft and craftsmanship from generation to generation, from days of early settlement to the 19th century. (3 credits) Fall

**HP 342 – Industrial America**

*Pre-requisites: AAH 121-122*

This course explores the industrial development of the nation: its architecture, landscape, transportation systems, and material production of the industrial revolution, ranging from the mid-19th century to the close of the 20th century. Monumental and vernacular architecture and landscape are addressed, with an emphasis on the developing nation's infrastructure, the social, political and economic underpinnings of our culture as they affect the development of our built environment, settlement patterns, land use, and reference to historical architectural styles and building types, utilitarian and decorative objects. (3 credits) Spring

**HP 351 – History and Philosophy of Historic Preservation**

*Co-listed with HP 551*

*Prerequisite: HP 150 or Junior standing*

Historical overview of the variety of philosophical approaches present in the preservation movement from Ruskin to the latest Charters. Explores changes in the values and ethics of preservation and urban conservation to set the framework for judgments and choices that may be made in building projects. Topics include issues related to tradition and innovation, various types of historic preservation, such as “living” museums and private restoration, reconstruction and adaptive reuse, conservation and heritage tourism. (3 credits) Spring

**HP 382L – Architectural Conservation Lab**

*Co-listed with HP 582L*

*Prerequisite: HP 301*

This course surveys the manufacture, composition, properties, uses, craft traditions, and conservation of traditional building materials and systems – wood, metal, glass, decorative finishes, and masonry – and the architectural context in which they are employed. Lectures, readings and discussions are supplemented by site visits, field trips, workshops and laboratory exercises

to understand historic American construction technology and contemporary conservation practices. (4 credits) Spring

**HP 384L – Preservation Planning Lab**

*Prerequisites: HP 175, 301, 342 or Junior standing*

A laboratory and field-based course that will examine the issues involved in preserving the environmental context of specific historic resources. General reading and analysis will include issues in town, rural, landscape and urban conservation. Lab projects in GIS, digital imaging, and other techniques for recording and evaluation historic context will be assigned. In addition, will involve field applications to nearby landscape, rural, town, and/or urban locations. (4 credits) Fall

**HP 391 – Architecture and Preservation Abroad**

*Prerequisite: Senior standing*

Course includes on-site examination of historically significant domestic and public architecture combined with the investigation of the practice of preservation, restoration and adaptive reuse work abroad. Lectures and presentations by local practitioners and authorities are included and emphasized. (4 credits) Fall

**HP 430 – Special Topics in Historic Preservation**

*Prerequisite: Junior standing*

Presentations by faculty and other experts in specific aspects of the historic preservation field. Students may take this course more than once, depending on the topic offered in any given semester. (3 credits) Special offering

**HP 451 – Thesis in Historic Preservation**

*Prerequisite: Senior standing and approval of faculty and Dean*

Serves as the culminating academic experience for outstanding students in the major. Students work closely with a faculty supervisor in a self-defined and self-directed study of an aspect of historic preservation. Students are encouraged to select a focus which demonstrates original and critical thinking, and contributes to available scholarship. Research results are in many cases of publishable quality and/or serve as the basis for scholarly presentations to professional groups. (3 credits) Special offering

**HP 452 – Senior Seminar**

*Prerequisite: Senior standing*

Each seminar focuses on a topic of historic preservation in depth. Students produce several medium-length papers on select aspects of the subject topic. Topics include a range of subjects within the expertise of the faculty and the interest of students. Class discussions are augmented by visiting lectures and site visits. (3 credits) Spring

**HP 469 – Preservation Internship**

*Co-listed with HP 569*

Students devote at least 140 hours to an internship with a government office or agency, nonprofit organization, or private company. An internship must be academically significant and related to the student's professional development as a preservationist. Each student is responsible for seeking and finding an internship. To facilitate the search process, students work with faculty and our network of community partners, alumni and other professionals. An internship is formalized through a work plan and agreement between the host organization and student, under direction of faculty. An internship is evaluated through interim and final reports from the intern and supervisor and a formal presentation by the student. (non-credit) Summer

**HP 501 – Fundamentals of Historic Preservation**

This course examines the built environment and its evolution, interpretation and management employing historic preservation tools and practices to include: the conceptual and philosophi-

cal framework with reference to theories, charters and legislation; government, nonprofit and corporate involvement at the international, federal, state and local level; preservation planning in urban, town and rural settings; architectural inventory, documentation, assessment and treatment techniques. The course includes case studies, field trips and guest lecturers. (3 credits) Fall

#### HP 524L — Archival Research

Research in historical preservation entails: site-specific research related to the physical fabric of a building, community, engineering feature, landscape or archaeological site; or more generalized research on context—social, cultural, and technological. This course employs the research methods and resources needed to complete the nomination of a site to National Register of Historic Places (NR) in accordance with National Park Service standards, particularly as they relate to Statement of Significance and Description. Classroom discussions will be linked to a series of field trips to a wide range of archival repositories and relevant neighboring sites. Through these, students consider the significance or meaning of a place, how we determine these attributes, and how we conduct research that supports our argument. Additional work will address how other scholarly research is informed by application of these methods. (4 credits) Fall

#### HP 525 — Preservation Economics

The course examines the major issues in financing activities within the historic preservation field. The financial physics of preserving and rehabilitating historic buildings (using incentive programs) are explored through research, applied project work and site visits. The methods and sources of funding for preservation agencies (both governmental and non-profit) are learned through budget analysis and seminars with agency leaders and fund-raising professionals. (3 credits) Spring

#### HP 526 — Preservation Law and Regulation

The course is designed to provide students with working knowledge of the public policy issues, legal structure and regulatory functions in the field of historic preservation. Student activities will be designed to teach working knowledge of relevant legal subjects, including historic preservation ordinances, state and federal preservation statutes, relevant case precedents and important constitutional issues. (3 credits) Spring

#### HP 530 Special Topics in Historic Preservation

*Prerequisite, Graduate standing, or Senior standing with permission of the instructor*

Variable content course dealing with significant themes, periods and individuals in Historic Preservation. The course is offered in a graduate seminar format, with graduate academic and scholarly expectations as well as support for faculty and student pursuits. The course may be taken more than once depending on topical content. (3 credits) *Special offering*

#### HP 542 — Professional Practice in Historic Preservation

This course prepares students for practical work in the profession. Through research, case studies, visits to/practitioners and informational interviews, students investigate specialized fields and opportunities in the public and private sector. Students evaluate the wide range of preservation career paths to inform their personal goals. Internship proposals are completed in preparation for the fulfillment of an internship required for graduation. (3 Credits) – Fall

#### HP 551 — History and Philosophy of Historic Preservation

*Co-listed with HP 351*

Historical overview of the variety of philosophical approaches present in the preservation movement from Ruskin to the latest Charters. Explores changes in the values and ethics of preservation and urban conservation to set the framework for judgements and choices that may be made in building projects. Topics include issues related to tradition and innovation and various types of historic preservation such as “living” museums and private restoration, reconstructing and adaptive use, conservation and heritage tourism. (3 credits) Spring

#### HP 569 — Preservation Internship

*Co-listed with HP 469*

Students devote at least 140 hours to an internship with a government office or agency, nonprofit organization, or private company. An internship must be academically significant and related to the student's professional development as a preservationist. Each student is responsible for seeking and finding an internship. To facilitate the search process, students work with faculty and our network of community partners, alumni and other professionals. An internship is formalized through a work plan and agreement between the host organization and student, under direction of faculty. An internship is evaluated through interim and final reports from the intern and supervisor and a formal presentation by the student. (*non-credit*) Summer

#### HP 582L – Architectural Conservation Lab

*Co-listed with HP 382L*

This course surveys the manufacture, composition, properties, uses, craft traditions, and conservation of traditional building materials and systems – wood, metal, glass, decorative finishes, and masonry – and the architectural context in which they are employed. Lectures, readings and discussions are supplemented by site visits, field trips, workshops and laboratory exercises to understand historic American construction technology and contemporary conservation practices. (4 credits) Spring

#### HP 631 — Preservation Graduate Thesis Seminar

*Prerequisite: HP351 or HP 551*

This seminar serves as the first part of the cumulating academic experience for students in the graduate-degree program. The seminar is focused on the development of issues towards a thesis proposal through research, readings, discussions, papers and presentations, augmented by lectures by faculty and visiting lecturers. This includes attention to theoretical, philosophical and ethical concepts. Students work closely with the faculty supervisor in a self-defined and self-directed study of an aspect of historic preservation. Students are encouraged to select a focus that demonstrates original and critical thinking and contributes to available scholarship. The product is a thesis proposal document that embodies the work of the semester. (3 credits) Fall

#### HP 651 — Graduate Thesis in Historic Preservation

*Prerequisite: HP 631*

The thesis serves as the final part of the culminating academic experience for students in the graduate thesis program. Students work closely with a faculty supervisor (and external readers) on the self-defined and self-directed study of an aspect of historic preservation formulated in the Graduate Thesis Seminar in Historic Preservation. This final document should be of publishable quality and/or serve as the basis for scholarly presentations to professional groups. (3 credits) Spring

#### HP 681L — Historic Rehabilitation Workshop

This workshop develops components of a certified historic rehabilitation project in light of federal, state and local preservation regulations and incentives, with a focus on the Federal Historic Preservation Tax Incentives program and with reference to the NPS, IRS, SHPO and other players. Students work on a site conducting documentation, condition assessment, and treatment recommendations, interpretation and application of the Secretary of the Interior's Standards, zoning study, code analysis, program and design development, outline specifications and drawings, and other components. Site-specific work will be informed by visits to rehabilitated structures and meetings with professionals. (4 credits) Fall

#### HP 682L — Preservation Planning Workshop

*Prerequisite: HP 526 or permission of the instructor*

This workshop approaches site-specific, field-based projects informed by an understanding of laws, codes and regulations, incentives and financing, initiatives, players, and an array of planning and conservation practices. Typically, the class is conducted in partnership with and for a

governmental entity, organization or community group. Students' organization, management and graphic/oral/written presentation skills; use of research resources, documentation techniques and computer applications; and teamwork are critical. Students will be challenged to take a multifaceted approach and consider diverse stakeholders. (4 credits) Spring

## HISTORY

### HIST 101 – History of Western Civilization I

*Fulfills a course requirement in the History Core Concentration*

Examines Western civilization from its birth in Greece and the Near East through the ancient, medieval, and Renaissance worlds to about A.D. 1600. (3 credits) Fall

### HIST 102 – History of Western Civilization II

*Fulfills a course requirement in the History Core Concentration*

Examines European politics, cultural achievements, and society from the 17th century to the present. (3 credits) Spring

### HIST 151 – United States History I: From Colonial Times to Reconstruction

*Fulfills a course requirement in the American Studies Core Concentration*

*Fulfills a course requirement in the History Core Concentration*

Surveys the political, economic, social, diplomatic, and cultural development of the United States from its Colonial period through Reconstruction. (3 credits) Fall

### HIST 152 – United States History II: Reconstruction to the Present

*Fulfills a course requirement in the American Studies Core Concentration*

*Fulfills a course requirement in the History Core Concentration*

Surveys the political, economic, social, diplomatic, and cultural development of the United States from the Reconstruction to the present. (3 credits) Spring

### HIST 203 – Dimensions of History and Lab

*Prerequisite: HIST 101, 102, 151,152 or permission of instructor*

Examines the basic concerns of historians in the modern world, focusing on the development of history as an academic discipline, philosophies of history, and historical method. The lab stresses analysis and critique of models of historical writing, interpretation of primary source materials, and elements of style and form appropriate for scholarly publications in the historical field, through a series of writing assignments of increasing sophistication (4 credits) Fall, Spring

### HIST 281 – A Survey of East Asian History

*Prerequisite – HIST 101,102 or permission from instructor*

*Fulfills a course requirement in the History Core Concentration*

An introductory course that emphasizes the political, religious, cultural, and historical influences of East Asia from antiquity to the modern era, with special emphasis on Asia's response to Western intrusion, its interpretation of Asian nationalisms, and its efforts to foster a unique Asian identity. (3 credits) Special offering

### HIST 282 – A Survey of Modern African History

*Prerequisite – HIST 101,102 or permission from instructor*

*Fulfills a course requirement in the History Core Concentration*

An introductory course that analyzes the continent during and after colonial rule, with an examination of the era of European control, the growth of African nationalism, and the victories and defeats of independence. (3 credits) Special offering

### HIST 283 – Survey of Latin American History

*Prerequisite – HIST 101,102 or permission from instructor*

*Fulfills a course requirement in the History Core Concentration*

This course presents a synthesis of the historical development of Latin America from the Pre-Columbian era to the present. The course is organized in chronological fashion and examines topics such as Pre-Columbian states, the colonial period, the movement for independence, and neocolonialism. (3 credits) Special Offering

### HIST 310 – Studies in European History

*Prerequisite – HIST 101,102 or permission from instructor*

*Fulfills a course requirement in the History Core Concentration*

Each semester this course is offered a new topic is chosen for in-depth study. Students may suggest topics to the instructor. Sample subjects include: History of Science and Technology, Socialism and Communism; The Totalitarians; Modern Jewish History; Voyages of Discovery. This course may be repeated for credit, but students may study a single topic only once (3 credits) Special Offering

### HIST 315 – Studies in National Histories

*Prerequisite – HIST 101,102 or permission from instructor*

*Fulfills a course requirement in the History Core Concentration*

Each semester that this course is offered, one modern European nation's development is explored. This course may be repeated for credit, but students may study a single nation only once. (3 credits) Special offering

### HIST 316 – Studies in African National History

*Prerequisite – HIST 101,102 or permission from instructor*

*Fulfills a course requirement in the History Core Concentration*

This course examines the historical development of one specific country or sub-region of Africa. The course will focus on both larger political, economic, and social transformations as well as changes in the daily lives of people. Countries or regions to be studied could include: South Africa, Egypt, Ethiopia and The Congo. (3 credits) Special Offering

### HIST 317 – Studies in Asian National History

*Prerequisite – HIST 101,102 or permission from instructor*

*Fulfills a course requirement in the History Core Concentration*

This course examines the historical development of one specific country or sub-region in Asia. The course will focus on both the larger political, economic, and social transformations as well as changes in the daily lives of people. Countries or regions to be studied could include: Modern China, Modern Japan, and Modern Korea. (3 credits) Special Offering

### HIST 318 – Studies in Latin American National History

*Prerequisite – HIST 101,102 or permission from instructor*

*Fulfills a course requirement in the History Core Concentration*

This course examines the historical development of one specific country or sub-region in Latin America. The course will focus on both the larger political, economic, and social transformations as well as changes in the daily lives of people. Countries or regions to be studied could include: Mexico, Brazil, and the Andes. (3 credits) Special Offering

### HIST 320 – Ancient History

*Prerequisite – HIST 101,102 or permission from instructor*

*Fulfills a course requirement in the History Core Concentration*

Europe and the Near East from ca. 500BCE – 500 CE, concentrating on Hellenic and Hellenistic history including the Greek polis system; the wars between Greece and Persia; the conquests of Alexander the Great; Rome from the founding of the city to the fall of the Empire; religious history both pagan and monotheistic. (3 credits) Special Offering