ARCHITECTURE

The Department of Architecture remains steadfastly committed to a tectonic conception of architectural practice. Students learn how to put a building together and how to derive formal poetics from constructive assembly. This passionate commitment to conventional tectonics is complemented and challenged by many avenues of experimentation and research that confront professional norms. Elective courses propose alternative practices and theories for architecture by speculating on thermodynamic form, cultural geography, performative envelopes, digital prototyping, and new ecological and programmatic compositions for water management. Sponsored studios leverage expertise from the professional community in unique partnerships that benefit students and also have an impact on the community and region—in many cases through constructed works.

Maximum curriculum choice is considered a hallmark of the architecture curriculum at UWM. After completing the core educational requirements, students are able to construct an educational path from a wide array of elective seminars, independent study, research assistantships, and studios that best suits their personal values and aspirations. Our goal is for students to be committed to architecture as a form of disciplinary inquiry that is compositionally ambitious, technically provocative, and to continually reinvent professional ethics and beauty.

Students in the School of Architecture and Urban Planning (SARUP) are passionate about architecture, and accomplished and dedicated faculty and alumni work tirelessly to provide the best experience to those they are mentoring. SARUP students benefit by studying in a small and strong school that offers individual attention and guidance within the context of an urban campus in a culturally vibrant city.

- Architectural Studies, BS
- Architectural Studies, Minor
- Architecture, MArch
- Architecture, MArch/Urban Planning, MUP
- Architecture, MArch: Ecological Design
- Architecture, MArch: Preservation Studies
- Architecture, MArch: Real Estate Development
- Architecture, MS
- Architecture, PhD

**Limitations**

The Department reserves the right to cap admissions into the minor on the basis of course availability. Students in the major have first priority registration for all courses in the Department. In cases of full capacity, students enrolled in the minor will be ranked and admitted into the program or into a course on the basis of overall GPA.

For more information about requirements for the minor, contact Tammy Taylor, Undergraduate Advisor, School of Architecture and Urban Planning, AUP 225, ttaylor@uwm.edu, (414) 229-4015.

**Accident and Health Insurance**

Use of the School's woodworking shop requires that students provide evidence of personal accident and health insurance to the School of Architecture and Urban Planning Dean's Office.

**Architecture Courses**

**ARCH 100 Architectural Making I**
3 cr. Undergraduate.
An introductory course about architecture and architectural making. 2D and 3D form and space tested through the theoretical, pragmatic, and contextual issues that influence architecture.

**Prerequisites:** none.

**General Education Requirements:** A

**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.

**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ARCH 101 Introduction to Architectural Theory**
3 cr. Undergraduate.
A survey of architectural design theory through research analysis and criticism of works and ideas of significant architects and architectural theorists.

**Prerequisites:** none.

**General Education Requirements:** A

**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ARCH 102 Architectural Thinking I**
3 cr. Undergraduate.
Broad overview of the histories and theories that have shaped the discipline of architecture: its histories, theories and methodologies.

**Prerequisites:** none.

**Last Taught:** Fall 2017, Fall 2016, Fall 2015.

**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ARCH 103 Architectural Making II**
3 cr. Undergraduate.
Survey and application of twentieth century design techniques in architecture.

**Prerequisites:** none.

**Last Taught:** Spring 2018, Spring 2017, Spring 2016.

**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)

**ARCH 104 Architectural Thinking II**
3 cr. Undergraduate.
Canonical buildings since 1800 alongside their accompanying theoretical texts are evaluated within the discipline and allied fields of inquiry.

**Prerequisites:** none.

**Last Taught:** Spring 2018, Spring 2017, Spring 2016.

**Current Offerings:** [http://uwm.edu/schedule](http://uwm.edu/schedule)
ARCH 110 New Student Orientation
1 cr. Undergraduate.
An overview of the School of Architecture and Urban Planning, the architecture and urban planning professions, academic requirements, and student resources.
Prerequisites: none.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 190 Special Topics:
1-3 cr. Undergraduate.
Presentation of new material on experimental basis. Material appropriate for testing interest and ability in architecture. Specific credits and any prereqs announced in Schedule of Classes whenever course is offered.
Prerequisites: none.
Course Rules: May be retaken w/chg in topic to 9 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 282 Visualization 1
3 cr. Undergraduate.
Development of precise standards of drawing and the history and techniques of descriptive and analytical drawing.
Prerequisites: acceptance to Level 2; or cons instr.
Last Taught: Fall 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 283 Visualization 2
3 cr. Undergraduate.
Exploration of the potential for representation to communicate generative, atmospheric, and presentational qualities.
Prerequisites: Arch 282(P).
Current Offerings: http://uwm.edu/schedule

ARCH 300 Architectural History and Theory
3 cr. Undergraduate/Graduate.
Introduction to architectural history and its theoretical base. The course covers classical architecture to the present, focusing on the theories underlying architecture of a period.
Prerequisites: acceptance to Level 2 or arch studies minor; or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 301 Architecture Systems 1
3 cr. Undergraduate/Graduate.
The behavior of structures, structural materials and planning, and the principles and performance of building envelope systems.
Prerequisites: acceptance to level 2 or arch studies minor; or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Spring 2015.
Current Offerings: http://uwm.edu/schedule

ARCH 302 Architecture and Human Behavior
3 cr. Undergraduate/Graduate.
Introduction to behavioral, social and cultural factors and their implications for the design and planning of the built environment.
Prerequisites: jr st & acceptance to level 2 or arch studies minor; or grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 303 Architecture Systems 2
3 cr. Undergraduate/Graduate.
Investigation of environmental control and life safety requirements and their implications on architectural form and design.
Prerequisites: acceptance to level 2 or arch studies minor; or grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 304 Contemporary Criticism and Urbanism
3 cr. Undergraduate/Graduate.
Disciplinary methods and themes through rigorous readings of texts and objects concerning contemporary architectural criticism, and histories and theories of urban form and urban planning.
Prerequisites: jr st.
Last Taught: Fall 2017.
Current Offerings: http://uwm.edu/schedule

ARCH 310 Fundamentals of Architectural Design I
6 cr. Undergraduate.
Formal concepts that order the production of architecture, using physical and virtual models, sketches, and drafted, scaled, orthographic drawings. Issues related to site, function and environment.
Prerequisites: acceptance to Level 2.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 320 Fundamentals of Architectural Design II
6 cr. Undergraduate.
Architectural design as a synthetic discipline that considers material/spatial experience, contextual analysis, formal concepts, and social/cultural relationships. Material/graphic representation explored in models, drawings, collage and renderings.
Prerequisites: Arch 310(P).
Current Offerings: http://uwm.edu/schedule

ARCH 340 Urban Design
3 cr. Undergraduate/Graduate.
Survey of urban design, including the study of precedents, recent philosophy, design vocabulary, behavioral responses, and implementation strategies.
Prerequisites: jr st; acceptance to Level 2 or arch studies minor & Arch 300(P); or grad st.
Last Taught: Fall 2016, Fall 2014, Fall 2012, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ARCH 350 Greening Milwaukee
3 cr. Undergraduate.
City wide environmental organizations are organized into lecture series on the state of sustainable issues. Thirty hours of service are required.
Prerequisites: soph st.
Last Taught: Fall 2016, Fall 2015, Fall 2014, Fall 2013.
Current Offerings: http://uwm.edu/schedule

ARCH 380 Drawing in Architecture
3 cr. Undergraduate/Graduate.
Visual communication skills are developed in relation to basic design theory and architectural design process.
Prerequisites: jr st & acceptance to level 2 or arch studies minor; or grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule
ARCH 382 Introduction to Building Information Modeling (BIM)  
3 cr. Undergraduate/Graduate.  
Prerequisites: jr st & acceptance to level 2 or arch studies minor or grad st.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

ARCH 383 Landscape Architecture  
3 cr. Undergraduate/Graduate.  
Introduction to the history of landscape architecture as well as the process of contemporary landscape architecture and its relationship to contemporary architecture.  
Prerequisites: jr st & acceptance to level 2 or arch studies minor; or grad st.  
Current Offerings: http://uwm.edu/schedule

ARCH 390 Special Topics:  
1-3 cr. Undergraduate.  
Provides a format for the development and presentation of new material. Specific credits and any additional prereqs announced in Schedule of Classes whenever course is offered.  
Prerequisites: jr st; acceptance to Level 2 or arch studies minor.  
Course Rules: May be retaken w/chg in topic to max of 12 cr.  
Current Offerings: http://uwm.edu/schedule

ARCH 391 Directed Research  
3 cr. Undergraduate.  
Student participation in research projects under faculty supervision.  
Prerequisites: jr st; acceptance to Level 2 or arch studies minor & cons instr.  
Course Rules: May not be retaken for cr.  
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.  
Current Offerings: http://uwm.edu/schedule

ARCH 392 Independent Studies  
3 cr. Undergraduate.  
Independent investigation of issues related to architecture.  
Prerequisites: jr st; acceptance to Level 2 or arch studies minor & cons instr.  
Course Rules: May not be retaken for cr.  
Current Offerings: http://uwm.edu/schedule

ARCH 410 Architectural Design I  
6 cr. Undergraduate.  
Design projects explore basic issues: clients' needs; site planning; masonry, wood, and steel construction; health and safety. Composition employs analysis of precedent.  
Prerequisites: Arch 320(P).  
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

ARCH 420 Architectural Design II  
6 cr. Undergraduate.  
Design projects explore complex contexts and programs. Solutions employ hybrid construction technologies, and codes for safety and accessibility; they also integrate interior and exterior spaces.  
Prerequisites: Arch 410(P).  
Current Offerings: http://uwm.edu/schedule

ARCH 497 Study Abroad:  
3-12 cr. Undergraduate.  
Studio and/or field study designed to provide relevant course work for a study abroad program in architecture.  
Prerequisites: acceptance to Level 2 or arch studies minor & Study Abroad Program.  
Course Rules: May be retaken w/chg in topic.  
Current Offerings: http://uwm.edu/schedule

ARCH 510 Survey of Structural Analysis and Design  
3 cr. Undergraduate/Graduate.  
Statics, strength of materials and analysis of simple structural elements and systems. Design and economics of simple building structures.  
Prerequisites: sr st & Arch 301(P); or grad st.  
Current Offerings: http://uwm.edu/schedule

ARCH 516 Building Construction  
3 cr. Undergraduate/Graduate.  
Review and analysis of architectural construction systems in relation to building projects of various scales. Construction techniques and contract documentation are covered.  
Prerequisites: sr st, Arch 301(P) & 303(P); or grad st.  
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

ARCH 520 Environmental Systems: Illumination and Thermal Comfort  
3 cr. Undergraduate/Graduate.  
The impact of visual and thermal comfort requirements on the design of building enclosures, lighting systems and HVAC systems.  
Prerequisites: sr st, Arch 301(P) & 303(P); or grad st.  
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2014.  
Current Offerings: http://uwm.edu/schedule

ARCH 521 Environmental Systems: Resources-Fluid Distribution Systems  
3 cr. Undergraduate/Graduate.  
Water resources supplies and treatment, distribution and disposal systems. Atmospheric and thermal comfort. Air treatment, distribution systems, and related energy systems for human comfort.  
Prerequisites: sr st & Arch 303(P); or grad st.  
Current Offerings: http://uwm.edu/schedule

ARCH 522 Environmental Systems: Lighting and Acoustical Design  
3 cr. Undergraduate/Graduate.  
The development and application of visual/auditory comfort criteria, lighting and acoustical design, and their architectural design implications.  
Prerequisites: sr st & Arch 303(P); or grad st.  
Last Taught: Fall 2015, Spring 2013, Spring 2012, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

ARCH 523 Environmental Systems: Water Resources Systems  
3 cr. Undergraduate/Graduate.  
Water resources supplies and treatment, distribution and disposal systems. Atmospheric and thermal comfort. Air treatment, distribution systems, and related energy systems for human comfort.  
Prerequisites: sr st & Arch 303(P); or grad st.  
Last Taught: Fall 2015, Spring 2013, Spring 2012, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

ARCH 524 Environmental Systems: Site Planning and Design  
3 cr. Undergraduate/Graduate.  
Site planning, design and development, real estate market analysis, and related public and private sector issues.  
Prerequisites: sr st & Arch 303(P); or grad st.  
Last Taught: Fall 2014, Spring 2012, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

ARCH 525 Environmental Systems: Systems Integration  
3 cr. Undergraduate/Graduate.  
Design projects explore complex contexts and programs. Solutions employ hybrid construction technologies, and codes for safety and accessibility; they also integrate interior and exterior spaces.  
Prerequisites: Arch 410(P).  
Current Offerings: http://uwm.edu/schedule

ARCH 526 Environmental Systems: Urban Design  
3 cr. Undergraduate/Graduate.  
Design projects explore complex contexts and programs. Solutions employ hybrid construction technologies, and codes for safety and accessibility; they also integrate interior and exterior spaces.  
Prerequisites: Arch 410(P).  
Current Offerings: http://uwm.edu/schedule

ARCH 527 Environmental Systems: Sustainability and Design  
3 cr. Undergraduate/Graduate.  
The development and application of visual/auditory comfort criteria, lighting and acoustical design, and their architectural design implications.  
Prerequisites: sr st & Arch 303(P); or grad st.  
Last Taught: Fall 2013, Spring 2012, Fall 2011.  
Current Offerings: http://uwm.edu/schedule

ARCH 528 Environmental Systems: International Practice  
3 cr. Undergraduate/Graduate.  
The impact of visual and thermal comfort requirements on the design of building enclosures, lighting systems and HVAC systems.  
Prerequisites: sr st, Arch 301(P) & 303(P); or grad st.  
Last Taught: Fall 2017, Fall 2016, Spring 2016, Fall 2014.  
Current Offerings: http://uwm.edu/schedule
ARCH 533 Topics in Architectural Theory
3 cr. Undergraduate/Graduate.
This variable content course will focus on the study of a particular architectural theory or the work of an individual architect and its theoretical base.
Prerequisites: sr st & Arch 300(P) or grad st.

ARCH 534 Field Study
3 cr. Undergraduate/Graduate.
Theoretical developments and their historical contexts are explored in a particular setting. Focus and setting are announced in advance.
Prerequisites: jr st, Arch 300(P).

ARCH 550 Seminar in Building Types and Settings
3 cr. Undergraduate/Graduate.
Development and usage of various building types and settings based upon social, behavioral, political, and economic factors.
Prerequisites: sr st, Arch 300(P) or 302(P), or cons instr.

ARCH 551 American Vernacular Architecture
3 cr. Undergraduate/Graduate.
Introductory seminar on the historical development of all forms of vernacular and popular architecture. Buildings are analyzed in detail within their cultural contexts.
Prerequisites: sr st & Arch 300(P); or grad st.

ARCH 553 Vernacular Buildings and Groupings
3 cr. Undergraduate/Graduate.
Study of the patterns and characteristics of human settlements and individual structures built according to local traditions.
Prerequisites: sr st & Arch 300(P); or grad st.

ARCH 560 Introduction to Historic Preservation
3 cr. Undergraduate/Graduate.
Research, discussion and case study development to explore political, social/historical, economic and design/restoration issues of preservation and adaptive use of buildings.
Prerequisites: sr st & Arch 300(P); or grad st.

ARCH 561 Measured Drawing for Architects
3 cr. Undergraduate/Graduate.
History and theory of measured drawings, field measuring and recording techniques, and production of drawings based on procedures of the Historic American Building Survey.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 562 Preservation Technology Laboratory
3 cr. Undergraduate/Graduate.
Laboratory focusing on the historic preservation of architectural detail. Students will examine historic technologies, write papers on them, and execute them in detail.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 563 Vernacular Buildings and Groupings
3 cr. Undergraduate/Graduate.
Study of the patterns and characteristics of human settlements and individual structures built according to local traditions.
Prerequisites: sr st & Arch 300(P); or grad st.

ARCH 564 Measured Drawing for Architects
3 cr. Undergraduate/Graduate.
History and theory of measured drawings, field measuring and recording techniques, and production of drawings based on procedures of the Historic American Building Survey.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 565 Introduction to Historic Preservation
3 cr. Undergraduate/Graduate.
Research, discussion and case study development to explore political, social/historical, economic and design/restoration issues of preservation and adaptive use of buildings.
Prerequisites: sr st & Arch 300(P); or grad st.

ARCH 566 Preservation Technology Laboratory
3 cr. Undergraduate/Graduate.
Laboratory focusing on the historic preservation of architectural detail. Students will examine historic technologies, write papers on them, and execute them in detail.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 567 Measured Drawing for Architects
3 cr. Undergraduate/Graduate.
History and theory of measured drawings, field measuring and recording techniques, and production of drawings based on procedures of the Historic American Building Survey.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 568 Introduction to Historic Preservation
3 cr. Undergraduate/Graduate.
Research, discussion and case study development to explore political, social/historical, economic and design/restoration issues of preservation and adaptive use of buildings.
Prerequisites: sr st & Arch 300(P); or grad st.

ARCH 570 Historic American Building Survey
3 cr. Undergraduate/Graduate.
Laboratory focusing on the historic preservation of architectural detail. Students will examine historic technologies, write papers on them, and execute them in detail.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 571 Measured Drawing for Architects
3 cr. Undergraduate/Graduate.
History and theory of measured drawings, field measuring and recording techniques, and production of drawings based on procedures of the Historic American Building Survey.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 572 Introduction to Historic Preservation
3 cr. Undergraduate/Graduate.
Research, discussion and case study development to explore political, social/historical, economic and design/restoration issues of preservation and adaptive use of buildings.
Prerequisites: sr st & Arch 300(P); or grad st.

ARCH 573 Preservation Technology Laboratory
3 cr. Undergraduate/Graduate.
Laboratory focusing on the historic preservation of architectural detail. Students will examine historic technologies, write papers on them, and execute them in detail.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 574 Measured Drawing for Architects
3 cr. Undergraduate/Graduate.
History and theory of measured drawings, field measuring and recording techniques, and production of drawings based on procedures of the Historic American Building Survey.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 575 Introduction to Historic Preservation
3 cr. Undergraduate/Graduate.
Research, discussion and case study development to explore political, social/historical, economic and design/restoration issues of preservation and adaptive use of buildings.
Prerequisites: sr st & Arch 300(P); or grad st.

ARCH 576 Preservation Technology Laboratory
3 cr. Undergraduate/Graduate.
Laboratory focusing on the historic preservation of architectural detail. Students will examine historic technologies, write papers on them, and execute them in detail.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 577 Measured Drawing for Architects
3 cr. Undergraduate/Graduate.
History and theory of measured drawings, field measuring and recording techniques, and production of drawings based on procedures of the Historic American Building Survey.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 578 Introduction to Historic Preservation
3 cr. Undergraduate/Graduate.
Research, discussion and case study development to explore political, social/historical, economic and design/restoration issues of preservation and adaptive use of buildings.
Prerequisites: sr st & Arch 300(P); or grad st.

ARCH 579 Preservation Technology Laboratory
3 cr. Undergraduate/Graduate.
Laboratory focusing on the historic preservation of architectural detail. Students will examine historic technologies, write papers on them, and execute them in detail.
Prerequisites: sr st & Arch 301(P); or grad st.

ARCH 580 Graphic Techniques for Architects
3 cr. Undergraduate/Graduate.
Architectural presentation techniques focusing on the application of various graphic media including color pencil, pastel, watercolor, marker, and air-brush.
Prerequisites: sr st & acceptance to level 2; or grad st.

ARCH 581 Law and Professional Practice for Architects
3 cr. Undergraduate/Graduate.
An introduction to architectural practice; content includes office procedures, contract management, legal constraints.
Prerequisites: sr st & acceptance to level 2 or arch studies minor; or grad st.

ARCH 582 Urban Landscape Architecture
3 cr. Undergraduate/Graduate.
Study of historic and contemporary exterior urban space, urban site planning methodology; design and detailing of exterior urban space; pedestrian and vehicular movement; use of plant materials.
Prerequisites: sr st & acceptance to level 2 or arch studies minor; or grad st.

ARCH 583 Emerging Digital Technology
3 cr. Undergraduate/Graduate.
Laboratory focusing on the theory and application of emerging digital tools to contemporary problems of architectural design and professional practice. Proficiency in MicroStation, Rhino, formZ, or SketchUp required.
Prerequisites: jr st & acceptance to Level 2 or arch studies minor; or grad st.

ARCH 584 Research Methods in Architecture
3 cr. Undergraduate/Graduate.
Review of various data collection and analysis methods used in architectural research and design; exploration of the epistemological foundations of our knowledge about the built environment.
Prerequisites: sr st & acceptance to Level 2; or grad st.

ARCH 585 Architectural Design Studio
3 cr. Undergraduate/Graduate.
Course rules.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 586 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 587 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 588 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 589 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 590 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 591 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 592 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 593 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 594 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 595 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 596 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 597 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 598 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.

ARCH 599 Advanced Architectural Design
3 cr. Undergraduate/Graduate.
Prerequisites: sr st & Arch 301(P) or grad st.
ARCH 586 Programing for Architectural Design
3 cr. Undergraduate/Graduate.
Analysis and development of architectural programs: goals, user requirements, socio-cultural determinants, design criteria, site selection and analysis, building type analysis, code analysis, and cost projections.
Prerequisites: sr st & Arch 302(P); or grad st.
Last Taught: Fall 2017, Spring 2017, Spring 2016, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 587 Post-Occupancy Evaluation of Built Environments
3 cr. Undergraduate/Graduate.
Evaluation of built environments: technical, functional, and socio-behavioral factors; design of post-occupancy evaluation studies and instruments; and analysis of a built environment.
Prerequisites: sr st & Arch 302(P); or grad st.
Current Offerings: http://uwm.edu/schedule

ARCH 650 Intermediate Design Studio:
6 cr. Undergraduate.
Intermediate concepts and methods of architectural design relevant to contemporary theory and practice.
Prerequisites: Arch 420(P).
Course Rules: May be retaken w/chg in topic to max of 12 cr.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

ARCH 716 Art of Detailing
3 cr. Graduate.
Seminar/workshop dealing with creative aspects of architectural construction technology. Building details are analyzed with respect to technical appropriateness, durability, context and design consequences.
Prerequisites: grad st; Arch 516(P) & 1 600 or above level studio; Arch 501(R) or 510(R).
Last Taught: Spring 2013, Fall 2010, Fall 2009, Fall 2008.
Current Offerings: http://uwm.edu/schedule

ARCH 723 Fundamentals of Ecological Architecture
3 cr. Graduate.
Investigation of the ecological issues affecting an architectural design process that aims to produce buildings, landscapes and cities with minimal demands on the environment.
Prerequisites: grad st. Counts as repeat of ARCH 790 with same title.
Last Taught: Spring 2018, Spring 2017, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 749 Urban Design as Public Policy
3 cr. Graduate.
Orients students in urban planning to urban design problems as matters of public policy with focus on the analysis and implementation of urban design proposals rather than on the techniques used to generate such proposals.
Prerequisites: grad st.
Course Rules: Not open to students who have cr in UrbPlan 857 which is identical to Arch 749.
Last Taught: Fall 2015, Fall 2011, Fall 2010, Fall 2009.
Current Offerings: http://uwm.edu/schedule

ARCH 750 Proseminar in Environment Design Research
3 cr. Graduate.
Intensive review of important findings in environmental design from research and professional literature and analysis of impacts on the built environment.
Prerequisites: grad st; Arch 585(C), or cons instr.
Current Offerings: http://uwm.edu/schedule

ARCH 751 Theories of Environment Design Research
3 cr. Graduate.
Systematic review and critique of the major concepts, models, and theories of environmental design; their adequacy relative to current data; needed tests; applicability to environmental policy, planning, and design.
Prerequisites: grad st; Arch 750(P); UrbPlan 740(P)or equiv; or cons instr.
Current Offerings: http://uwm.edu/schedule

ARCH 760 History of Building Technology
3 cr. Graduate.
An examination of evolving technology in architecture from antiquity to the mid-twentieth century, concentrating on examples in the united states; includes field trips.
Prerequisites: grad st; Arch 300.
Current Offerings: http://uwm.edu/schedule

ARCH 780 The Built Environment and Real Estate Development
3 cr. Graduate.
A course providing an understanding of the relationships between economics and architectural design and skills in manipulation of variables in both areas on real projects.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 782 Visualization 1
3 cr. Graduate.
Development of precise standards of drawing and the history and techniques of descriptive and analytical drawing.
Prerequisites: grad st
Last Taught: Fall 2017, Fall 2016, Fall 2015.
Current Offerings: http://uwm.edu/schedule

ARCH 783 Visualization 2
3 cr. Graduate.
Exploration of the potential for representation to communicate generative, atmospheric, and presentational qualities.
Prerequisites: grad st; Arch 782(P)
Current Offerings: http://uwm.edu/schedule

ARCH 785 Advanced Research Methods in Architecture
3 cr. Graduate.
Advanced treatment of existing and emerging qualitative and quantitative research and analysis methods, including research designs, scholarly, structural, field, survey, experimental and multivariate methods.
Prerequisites: grad st; Arch 585; UrbPlan 740 or equiv or cons instr.
Current Offerings: http://uwm.edu/schedule
ARCH 788 Green Building Seminar
3 cr. Graduate.
Investigation and research into the environmental and architectural opportunities and constraints of building and landscape materials.
Prerequisites: grad st. Counts as repeat of ARCH 790 with same title.
Current Offerings: http://uwm.edu/schedule

ARCH 790 Special Topics:
1-3 cr. Graduate.
Development and presentation of new material on an experimental, one-term basis. Specific cr & any additional prereqs announced in schedule of classes whenever course is offered.
Prerequisites: grad st.
Course Rules: Retakeable with change in topic to max of 9 cr.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 791 Master's Level Directed Research
1-3 cr. Graduate.
Student participation in research projects under faculty supervision.
Prerequisites: grad st; cons instr.
Course Rules: Retakeable to 3 cr max.
Last Taught: Spring 2018, Fall 2017, Summer 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 792 Master's Level Independent Studies and Research
1-3 cr. Graduate.
Independent investigation of issues related to architecture.
Prerequisites: grad st; cons instr.
Course Rules: Retakeable to 3 cr max.
Current Offerings: http://uwm.edu/schedule

ARCH 794 Pre-Thesis or Master's Project Research
3 cr. Graduate.
Background preparation and research completed prior to master’s thesis or project.
Prerequisites: grad st; eligibility for thesis or master’s project next semester.
Current Offerings: http://uwm.edu/schedule

ARCH 797 Study Abroad:
3-12 cr. Graduate.
Studio and/or field study designed to provide relevant course work for a study abroad program in architecture.
Prerequisites: grad st; acceptance to Study Abroad Program.
Course Rules: Retakeable to 12 cr max w/chg in topic.
Current Offerings: http://uwm.edu/schedule

ARCH 810 Architectural Design I
6 cr. Graduate.
This design studio introduces students to theories and methodologies of architectural design. Design projects explore various design procedures, graphic techniques, and building tectonics.
Prerequisites: grad st.
Last Taught: Fall 2017, Fall 2016, Fall 2015, Fall 2014.
Current Offerings: http://uwm.edu/schedule

ARCH 820 Architectural Design II
6 cr. Graduate.
This design studio further develops the theories and methodologies of architectural design. Design projects emphasize specific issues of theory, structure, context, program, and graphic communication.
Prerequisites: grad st; Arch 810(P).
Current Offerings: http://uwm.edu/schedule

ARCH 825 Comprehensive Design Studio:
6 cr. Graduate.
Advanced design studio emphasizing schematic design to detailed development of programmatic spaces, structural and environmental systems, life-safety provisions, wall sections, and building materials and assemblies.
Prerequisites: grad st & Arch 516(C).
Course Rules: Retakeable w/ chg in topic to 12 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 8288 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

ARCH 850 Advanced Design Studio:
6 cr. Graduate.
This studio emphasizes advanced concepts and methods of architectural design relevant to contemporary theory and practice. Retakeable with change in topic to max of 18 cr.
Prerequisites: grad st.
Last Taught: Spring 2018, Fall 2017.
Current Offerings: http://uwm.edu/schedule

ARCH 888 Candidate for Degree
0 cr. Graduate.
Available for graduate students who must meet minimum credit load requirements.
Prerequisites: grad st
Current Offerings: http://uwm.edu/schedule

ARCH 890 Master's Thesis
6 cr. Graduate.
Production of a written thesis under the supervision of a faculty committee selected by student.
Prerequisites: grad st; cons advisor; cons chair if taken before final semester.
Last Taught: Spring 2017, Spring 2015, Fall 2014, Fall 2011.
Current Offerings: http://uwm.edu/schedule

ARCH 891 Master's Project
6 cr. Graduate.
Production of an independent design project under the supervision of a faculty committee selected by student.
Prerequisites: grad st; cons advisor; cons chair if taken before final semester.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule
ARCH 990 Doctoral Dissertation
3-12 cr. Graduate.
Research toward the completion of the PhD dissertation under the direction of the candidate’s dissertation chair and committee.
Prerequisites: grad st; admis to candidacy for the PhD; & cons PhD prog comm.
Course Rules: May be retaken.
Current Offerings: http://uwm.edu/schedule

ARCH 991 Doctoral Level Research
1-3 cr. Graduate.
Research work for doctoral students in Architecture.
Prerequisites: grad st; cons instr
Course Rules: Retakable to 12 cr max.
Last Taught: Spring 2018, Fall 2017, Spring 2017, Fall 2016.
Current Offerings: http://uwm.edu/schedule

ARCH 992 Doctoral Level Independent Work
1-3 cr. Graduate.
Independent study on topics selected in agreement with supervising professor.
Prerequisites: grad st; cons instr
Course Rules: Retakable to 12 cr max.
Current Offerings: http://uwm.edu/schedule

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Degree</th>
<th>School</th>
<th>Graduate Faculty</th>
<th>Emeritus Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sherry Ahrentzen</td>
<td>Professor</td>
<td>PhD</td>
<td>Princeton University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jasmine Benyamin</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>Princeton University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nikole Bouchard</td>
<td>Assistant Professor</td>
<td>MArch</td>
<td>Princeton University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uriel Cohen</td>
<td>Professor</td>
<td>PhD</td>
<td>University of Virginia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chris T. Cornelius</td>
<td>Associate Professor</td>
<td>MArch</td>
<td>University of Virginia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kevin Forseth</td>
<td>Associate Professor</td>
<td>MArch</td>
<td>Stanford University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert Greenstreet</td>
<td>Professor, Dean</td>
<td>PhD</td>
<td>Oxford Brookes University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Donald L. Hanlon</td>
<td>Professor</td>
<td>MArch</td>
<td>University of Washington</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thomas C. Hubka</td>
<td>Professor</td>
<td>MArch</td>
<td>University of California - Los Angeles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raymond Issacs</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California - Berkeley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frederick Jules</td>
<td>Professor</td>
<td>MArch</td>
<td>Princeton University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mark Keane</td>
<td>Professor</td>
<td>MArch</td>
<td>University of Illinois</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Linda R. Krause</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of California - Berkeley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whitney Moon</td>
<td>Assistant Professor</td>
<td>PhD</td>
<td>University of California - Los Angeles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeffery Ollswang</td>
<td>Professor</td>
<td>MSc</td>
<td>University of California - Berkeley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harvey Rabinowitz</td>
<td>Professor</td>
<td>MArch</td>
<td>Columbia University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amos Rapoport</td>
<td>Distinguished Professor</td>
<td>MArch</td>
<td>Columbia University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kyle Reynolds</td>
<td>Assistant Professor</td>
<td>MArch</td>
<td>Princeton University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Douglas Ryhn</td>
<td>Professor</td>
<td>MSc</td>
<td>University of Michigan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brian Schermer</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Michigan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthony Schnarsky</td>
<td>Associate Professor</td>
<td>MArch</td>
<td>University of California, Berkeley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arijit Sen</td>
<td>Associate Professor</td>
<td>PhD</td>
<td>University of Wisconsin - Milwaukee</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James W. Shields</td>
<td>Associate Professor</td>
<td>MArch</td>
<td>University of Wisconsin - Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gil Snyder</td>
<td>Associate Professor</td>
<td>MArch</td>
<td>Columbia University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Josef Stagg</td>
<td>Associate Professor</td>
<td>DArch</td>
<td>University of Michigan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kyle Talbott</td>
<td>Associate Professor</td>
<td>MArch</td>
<td>Texas A&amp;M University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filip Tejchman</td>
<td>Assistant Professor</td>
<td>MSAAD</td>
<td>Columbia University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alexander Timmer</td>
<td>Assistant Professor</td>
<td>MArch</td>
<td>Harvard University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael Utzinger</td>
<td>Associate Professor</td>
<td>MSE</td>
<td>University of Wisconsin - Madison</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Karl Wallick</td>
<td>Associate Professor, Chair</td>
<td>MArch</td>
<td>University of Pennsylvania</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James H. Wasley</td>
<td>Professor</td>
<td>MArch</td>
<td>Rice University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gerald Weisman</td>
<td>Professor</td>
<td>PhD</td>
<td>Rice University</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Contact Information

Department of Architecture
2131 E. Hartford Avenue
Milwaukee, WI 53211

Phone: (414) 229-5564
sarup-ugrad@uwm.edu
sarup-grad@uwm.edu

uwm.edu/sarup/architecture/ (http://uwm.edu/sarup/architecture)