ARCH 172  **Drawing and Modeling**  credit: 3 hours.
Introduction to the architectural graphic communication skills that architects use to visualize, analyze, and record creative thoughts: freehand sketching, architectural delineation, and digital applications.

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**ARCH 199  Undergraduate Open Seminar**  credit: 1 TO 5 hours.
May be repeated.

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Instructor Approval Required

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Credit Hours: 3 hours
Camp Honors/Chanc Schol course.
Topic: Architectural Design & Digital Fabrication This section for Chancellor's Scholars only; other students may only enroll with consent of instructor and the Campus Honors Program.
Restricted to Chancellor's Scholar-CHPHonors students.

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Credit Hours: 3 hours
Camp Honors/Chanc Schol course. This section is for Chancellor's Scholars only; others may enroll with the permission of the Campus Honors Program and the instructor. Topic: Architecture and the Built Environment. Restricted to Chancellor’s Scholar-CHPHonors students.

ARCH 222  **Islamic Gardens & Architecture**  credit: 3 hours.
Same as LA 222. See LA 222.
This course satisfies the General Education Criteria for a:
Cultural Studies - Non-West
Humanities – Hist & Phil

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Humanities - Hist & Phil, and Cultural Studies - Non-West course.

ARCH 232  **Structural Fundamentals**  credit: 4 hours.
The study of forces, their distribution, and their impact on building structure. Topics include: equilibrium of rigid bodies in two and three dimensions; trusses; shear and bending moments in beams; arches and frames; stresses, strains, and deformations in axially loaded members; direct shear and bearing stresses; torsion; beam stresses and deflections; introduction to the design of structural members; and architectural applications. Prerequisite: MATH 220 or MATH 221, and MATH 231 or PHYS 101.

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ARCH 274  **Representation**  credit: 3 or 4 hours.
Develops understanding of the representation of ideas, values, and meaning in the built environment. Focuses on three topic areas: analysis, technical communication, and modeling. Exposure to multiple software tools and mastery of basic skills in each.

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</table>
ARCH 314  **History of World Landscapes**  credit: 4 hours.

Same as LA 314. See LA 314.

The Natalie Alpert prize is given for the best term paper(s).

This course satisfies the General Education Criteria for a:
- Advanced Composition
- Humanities – Hist & Phil
- Cultural Studies - Western

**ARCH 341  **Environment Tech HVAC**  credit: 4 hours.

Study of the control of thermal environment, mechanical and related building sub-systems, and their integration into the overall building design. The specific topics include: thermal comfort and behavioral implications; fundamentals of thermal behavior of buildings; the principles of heat and moisture in buildings; indoor air quality and “Sick Building Syndrome”; energy and sustainability implications of building design; and mechanical systems including HVAC and plumbing systems. Prerequisite: ARCH 233.

Students must register for one lab and one lecture section.
### ARCH 342  Environment Tech Ltg & Acoust  
**credit: 4 hours.**

Study of the control of luminous and sonic environments, the supporting building systems, and their integration into the overall building design. Specific topics include: lighting fundamentals; light sources; effects of lighting on comfort and performance; lighting calculations and design; energy economy and sustainability; acoustic fundamentals; room acoustics; noise control; and basic electrical and sound systems. Prerequisite: ARCH 233.

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### ARCH 352  Mech of Mat & Design Appl  
**credit: 4 hours.**

Study of stresses, strains, and deformations in axially loaded members; direct shear and bearing stresses; torsion; beam stresses and deflections; stresses under combined loading; column buckling; design of structural members; introduction to statically indeterminate structures; architectural applications. Prerequisite: ARCH 351.

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**ARCH 374  Arch Design and the City**  credit: 5 hours.
Building design in the community setting; creation of place; introductory urban design and site planning issues, including universal design and accessibility; human-built environment relationship issues; architectural design and presentation methods; required field trips. Prerequisite: ARCH 373.

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Credit Hours: 5 hours
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Restricted to Architectural Studies or Architecture major(s).

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Restricted to Architectural Studies or Architecture major(s).

**ARCH 400  Senior Honors in Architecture**  credit: 1 TO 4 hours.
For candidates for honors in Architecture. Independent guided study and research in a selected area of architecture. 1 to 4 undergraduate hours. No graduate credit. May be repeated to a maximum of 6 hours with consent of Director of School. Prerequisite: Senior standing in architecture, a University grade-point average of 3.0 or, in special cases, consent of Director of School.

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Instructor Approval Required

**ARCH 401  Independent Study**  credit: 0 TO 4 hours.

Independent guided study and investigation in a selected area of architecture. 0 to 4 undergraduate hours. 0 to 4 graduate hours. Approved for both letter and S/U grading. May be repeated. Prerequisite: Junior standing in architecture, written proposal approved by a sponsoring faculty member and the approval of the Director of the School.

Work may be taken in the following Architectural areas: Design, History, Theory, Structures, Practice and Technology.

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Credit Hours: 1 hours

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Credit Hours: 1 hours

**ARCH 409  Special Topics in Spanish Arch**  credit: 3 hours.

Explores aspects of the architecture and urban design of Spain from antiquity until the present. 3 undergraduate hours. 3 graduate hours. May be repeated to a maximum of 6 hours. Prerequisite: ARCH 210.

<table>
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This course meets in Barcelona, Spain.

**ARCH 415  Modernity’s Mirror: Nineteenth-Century Architecture 1750-1900**  credit: 3 hours.

The course examines architecture and urbanism in the long nineteenth century (c1750-1900), focusing on Europe and North America. Significant attention will be paid to architectural responses to rapid technological and social changes, including industrialization and the rise of consumer culture, nationalism and colonialism, migration and urbanization, and changes to class and gender norms. We will also consider ancient and medieval architectural revivalism as anchors for political, social, and cultural meaning in the modern world. 3 undergraduate hours. 3 graduate hours. Prerequisite: ARCH 210 or ARTH 112, or consent of instructor.

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<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
</table>
ARCH 416  **Modern American Architecture**  credit: 3 hours.  
Development of American architecture and urban planning from the seventeenth century to the present. 3 undergraduate hours. 3 graduate hours. Prerequisite: ARCH 210, ARTH 112, or consent of instructor.

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<tr>
<th>CRN</th>
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<th>Section</th>
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<th>Days</th>
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<td>39951</td>
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</table>

ARCH 434  **Environmental Control Systems I**  credit: 5 hours.  
Study of the control of thermal, luminous, and sonic environments with an emphasis on passive means of controls. Specific topics include: thermal comfort and behavioral implications; fundamentals of thermal behavior of buildings; the principles of heat and moisture in buildings; lighting fundamentals; light sources; effects of lighting on comfort and performance; energy economy and sustainability; acoustic fundamentals; room acoustics; noise control; basic electrical, plumbing, vertical transportation, and life safety systems. 5 undergraduate hours. 5 graduate hours. Prerequisite: Concurrent enrollment in ARCH 374 or consent of instructor.

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<td>68847</td>
<td>Lecture</td>
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<td>11:00 AM - 12:20 PM</td>
<td>TR</td>
<td>115 - David Kinley Hall</td>
<td>Boubekri, M Strand, R</td>
</tr>
</tbody>
</table>

ARCH 452  **Theory of Reinforced Concrete**  credit: 4 hours.  
Concrete materials; behavior of reinforced concrete construction; behavior and design of structural elements, one-way slabs, beams, and girders; columns; ACI code requirements; and introduction to continuity in reinforced concrete structures.  undergraduate hours. 4 graduate hours. Prerequisite: ARCH 352.

Students must register for one lab and one lecture section.

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<tr>
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<td>AB2</td>
<td>06:30 PM - 07:50 PM</td>
<td>T</td>
<td>102B - Architecture Building</td>
<td>Aminmansour, A</td>
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</table>
ARCH 468  **Overseas Architectural Studies**  credit: 3 hours.
This course is designed to enrich the professional development of students in a study abroad location. Students participate in thematic workshops, seminars, lectures and field trips focused on understanding and analyzing architectural and urbanistic landmarks and settings on site through both directed and independent assignments. 3 undergraduate hours. No graduate credit. May be repeated in separate terms up to 6 hours. Prerequisite: Senior standing in the School of Architecture.

ARCH 472  **Arch Des in Landscape & Cities**  credit: 6 hours.
Intermediate architectural design methods, fundamentals, principles and concepts focusing on buildings in landscape and urban contexts. 6 undergraduate hours. 6 graduate hours. Prerequisite: ARCH 471 and concurrent enrollment in ARCH 233.

ARCH 475  **Arch Design & Development**  credit: 6 hours.
Schematic design and development of a small-scale public building emphasizing the integration of the basic elements of building; materials, details, structure, technology, program, life safety, and universal design. 6 undergraduate hours. 6 graduate hours. Prerequisite: ARCH 374 or ARCH 472.

ARCH 476  **Arch Design & Exploration**  credit: 6 hours.
Exploration of boundaries of architecture and the built environment. Focused exploration into specific design topics, such as issue-oriented building problems, urban design theory, intermediate building design and site planning theory, human-environment relationship theory, interdisciplinary design, and architectural design and presentation methods. 4 undergraduate hours. 4 graduate hours. Prerequisite: ARCH 475.

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Restricted to Architectural Studies or Architecture major(s).

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Restricted to Architectural Studies or Architecture major(s).

Topic: Beyond the Grid: Generative Design with Innovative Structural System

ARCH 491  Arch Professional Internship  credit: 0 hours.
Full-time or part-time professionally supervised field experience in design intended to introduce students to the practice of architecture in a commercial firm or agency of government. Students work in the school-approved firm or agency of their choice. Written work reports and reflective experiential learning reports are required. 0 undergraduate hours. 0 graduate hours. Approved for S/U grading only. May be repeated in separate terms a maximum of 3 times. Prerequisite: Graduate standing or upper-level undergraduate standing, or consent of instructor. For students enrolled in the BSAS and M.Arch. programs of study only.

<table>
<thead>
<tr>
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</table>

Restricted to Architectural Studies or Architecture major(s).

ARCH 499  Off-Campus Study  credit: 0 TO 12 hours.
Provides opportunity for approved off-campus study. Detailed proposal for study off campus must be submitted for approval to the appropriate committee in the School prior to such study. Final determination of credit and its application toward the degree is made after a review of the student’s off-campus work by the above committee and the Director of School. 0 to 12 undergraduate hours. 0 to 12 graduate hours. Approved for both letter and S/U grading. Prerequisite: Senior or graduate standing in architecture and approval of program prior to registration.

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Credit Hours: 12 hours
Spring Semester in Munich

ARCH 501  Architectural Practice  credit: 3 hours.
Role of the architect in the building enterprise, professional ethics, and the conduct of professional practice; legal aspects of architectural practice and building construction; introduction of business management, marketing, operational procedures, financial planning, and cost control of architectural practices; and the administration of construction contracts. Prerequisite: Graduate standing or consent of instructor.

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Restricted to Graduate - Urbana-Champaign. Enrollment restricted to Master of Architecture students who will graduate in 2018.

ARCH 510  **History of World Landscapes**  credit: 4 hours.
Same as LA 513. See LA 513.

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<td>A</td>
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<td></td>
<td></td>
<td>Chawla, S Kraszewska, K Lee, K Samayeen, N</td>
</tr>
</tbody>
</table>

ARCH 517  **Architectural History 1850-Present**  credit: 3 hours.
This course is a survey of significant buildings, movements, and figures of modern and contemporary architecture, with a focus on contextualizing built environments as the embodiment of social, cultural, political, economic, and technological developments of their time. It outlines the development of modern, postmodern, and contemporary architectural thought. Key themes include industrialization and modernization, the development of the modern movement in twentieth-century architecture, non-Western modernism, the development of postmodernism as an architectural movement, regionalism, globalization and architecture, the sustainability movement, and the development of digital technology in architecture. 3 graduate hours. No professional credit.

<table>
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<tr>
<th>CRN</th>
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<th>Days</th>
<th>Location</th>
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<td>AD2</td>
<td>11:00 AM - 11:50 AM</td>
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<td>Bross, B</td>
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</tbody>
</table>
Restricted to Architecture major(s). Restricted to Graduate - Urbana-Champaign.

**ARCH 544  Bldg Sys & Design Integration**  credit: 0 TO 4 hours.
Advanced course on building design for greater performance, including the study of: the anatomical and functional variations of building subsystems and their design implications; inter-system relationships and synergistic integration of building subsystems into the overall building; and the strategies for designing buildings of high functional performance and greater overall value. Term paper is required for 4 hours credit. Prerequisite: Graduate standing in Architecture or consent of instructor.

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Credit Hours: 4 hours
Restricted to Graduate - Urbana-Champaign.

**ARCH 553  Adv Reinforced Concrete Design**  credit: 3 hours.
Critical review of the analysis, methods, and specifications involved in the design and behavior of reinforced concrete structures for buildings, including tall buildings, plates, and shells; computer applications. Prerequisite: ARCH 551; credit or concurrent registration in ARCH 560 or consent of instructor.

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<th>CRN</th>
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</table>

Restricted to Graduate - Urbana-Champaign.

**ARCH 556  Advanced Structural Planning**  credit: 4 hours.
Study of the loads, functional and spatial requirements, and construction problems in the selection and design of structural systems for buildings; cost estimates; and integration of mechanical and electrical equipment. Prerequisite: ARCH 552 and ARCH 553; credit or concurrent registration in ARCH 554 and ARCH 555, or consent of instructor.

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<tr>
<th>CRN</th>
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<td>TR</td>
<td>301 - Architecture Building</td>
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</table>
ARCH 558  **Structural Wood Design**  credit: 3 hours.
Analysis and design of wood structures for buildings; response of wood buildings to gravity and lateral loads; design of structural
elements: beams, columns, beam-columns, members in tension, and trusses using NDS specifications; connections; plywood panels;
diaphragms and shear walls. Prerequisite: ARCH 451 or equivalent.

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<th>CRN</th>
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<th>Time</th>
<th>Days</th>
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</table>

ARCH 560  **Advanced Structural Analysis**  credit: 3 hours.
Advanced theory and analysis of statically indeterminate structures, recognizing effects due to temperature, settlement, and fabrication
errors; matrix methods focusing on computer analysis techniques; introduction to plastic analysis and design. Prerequisite: ARCH 551.

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</table>

ARCH 563  **Soc/Beh Research Designed Env**  credit: 4 hours.
Introduction to methods and techniques of systematically generating social and behavioral information relevant to the programming,
design, and evaluation of physical environments. Same as LA 563. Prerequisite: Graduate standing in architecture, landscape
architecture, or urban and regional planning.

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ARCH 571  **Design: Detail and Architectonics**  credit: 6 hours.
Design studio investigations of multiple techniques and methodologies addressing the design and fabrication of small-scale
architectural constructions, explorations of specific sites and places, and interdisciplinary projects. Field trips may be required. Shop
safety orientation required. 6 graduate hours. No professional credit. May be repeated in separate terms to a maximum of 12 hours.
Prerequisite: Graduate standing or consent of instructor.

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<td>Days</td>
<td>Location</td>
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Credit Hours: 6 hours
Restricted to Graduate - Urbana-Champaign.

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Restricted to Graduate - Urbana-Champaign.

ARCH 572  **Design: Behavior and Environment**  credit: 6 hours.
Design studio explorations responding to social, economic, political and behavioral dimensions of human existence and settlement. Projects investigate the experience of physical environments at the human scale and socially sustaining design strategies addressing diverse human needs. Field trips may be required. 6 graduate hours. No professional credit. May be repeated in separate terms to a maximum of 12 hours. Prerequisite: Graduate standing or consent of instructor.

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Credit Hours: 6 hours
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<td>MWF</td>
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<td>Lewis, C</td>
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<th>Instructor</th>
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<td>Laboratory</td>
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<td>MWF</td>
<td>-</td>
<td>Bollo, C</td>
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</tbody>
</table>

Restricted to Graduate - Urbana-Champaign.

ARCH 573  **Design: Technology and Performance**  credit: 6 hours.
Design studio investigations of buildings and systems focusing on structure, enclosure, technology and performance. Integration of building materials, components and systems and their impact on the design, construction, and sustainability of buildings. Field trips may be required. 6 graduate hours. No professional credit. May be repeated in separate terms to a maximum of 12 credit hours. Prerequisite: Graduate standing or consent of instructor.

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<tr>
<th>CRN</th>
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<th>Section</th>
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Restricted to Graduate - Urbana-Champaign.

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Restricted to Graduate - Urbana-Champaign.
ARCH 574  Design: Architecture and Urban Design  credit: 6 hours.
Design studio investigations of issues that impact urban habitats, buildings and people. Architecture and urban design, preservation, and adaptation of new and existing buildings, cities, districts, public realms and urban environments. Designing and preserving buildings and communities in a sustainable manner. Field trips may be required. 6 graduate hours. No professional credit. May be repeated in separate terms to a maximum of 12 credit hours. Prerequisite: Concurrent enrollment in ARCH 536 or consent of instructor.

<table>
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ARCH 576  Architectural Design Seminar  credit: 3 hours.
Presentations and discussions relative to various areas of architectural and environmental design concerns. May be repeated to a maximum of 15 hours. Prerequisite: Consent of instructor.

<table>
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<td>57426</td>
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<td>102A - Architecture Building</td>
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Arch, Cinema, Environ Behavior
Restricted to Graduate - Urbana-Champaign.
Topic: Architecture, Cinema, Environment and Behavior
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Credit Hours: 3 hours  
Architectural Programming  
Restricted to Graduate - Urbana-Champaign.  
Topic: Architectural Programming: Confronting Cultural Proposals in the Built Environment  
This course meets in the Plym Office, Room 105 ARCH.

<table>
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<tbody>
<tr>
<td>69652</td>
<td>Discussion/Recitation</td>
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Digital Design Seminar

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Credit Hours: 3 hours  
Parametric Integration  
Topic: Performance and Parametric Design

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Small Structures Big Ideas

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<tbody>
<tr>
<td>68797</td>
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Credit Hours: 3 hours  
Urban Progress  
Topic: Urban Progress  
This course is for Chicago studio students only.

<table>
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Urban Matters: Thresholds  
Restricted to Graduate - Urbana-Champaign.  
Urban Matters: Thresholds

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Work-Test-Flow

**ARCH 590  Directed Research**  credit: 0 TO 8 hours.  
Nature and scope of projects to be determined by consultation between student and faculty advisor; open to architecture and landscape architecture majors as well as those from other disciplines who wish to engage in interdisciplinary work. Approved for both letter and S/U grading. May be repeated in the same term up to 12 hours and separate terms up to 18 hours; MARCH students are limited to 12 hours. Prerequisite: Consent of instructor.
ARCH 591  Spec Prob Arch Hist & Pres  credit: 2 TO 4 hours.
Individual investigation of the work of particular architects, of specific buildings, and of the architecture of periods or regions; comparative studies; and aesthetic problems. May be repeated in separate terms to a maximum of 12 hours. Prerequisite: Twelve hours of architectural history or consent of instructor.

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<th>Location</th>
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<tbody>
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Instructor Approval Required

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Credit Hours: 3 hours
Restricted to Graduate - Urbana-Champaign.
Topic: Memory and Architecture

ARCH 593  Spec Prob Arch Practice & Mgt  credit: 2 TO 4 hours.
In-depth investigation of emerging issues and specific areas of research interest beyond what is covered in graduate courses of regular offering in the area of architectural practice and management. Students, as individuals or in groups, are expected to propose a research plan and methods for a specific topic of research interest in consultation with the instructor, and execute it under the guidance of the instructor through consultation on a regular basis. May be repeated in same and subsequent terms as topics vary to a maximum of 12 hours. Prerequisite: Advanced graduate standing and consent of instructor.

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<th>CRN</th>
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<td>69216</td>
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Credit Hours: 4 hours
Design & Construction Futures
Restricted to Graduate - Urbana-Champaign.

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<tr>
<td>62523</td>
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Credit Hours: 4 hours
Restricted to Graduate - Urbana-Champaign.
Topic: Professional Integration seminar. 4 credit hours. For Chicago Studio students only.

ARCH 597  Spec Prob Arch Design  credit: 2 TO 4 hours.
Individual investigation of building types and systems, aesthetic theories, design thesis programming and other problems in architectural design. May be repeated to a maximum of 16 hours. Prerequisite: Consent of instructor.

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<tr>
<th>CRN</th>
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<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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</table>
Departmental Approval Required
Restricted to Graduate - Urbana-Champaign.
For independent study, students must receive School approval for course proposal developed with course instructor. See http://www.arch.illinois.edu/resources/courses/IndependentStudy/ for Independent Study Approval Form.

ARCH 599  **Thesis Research**  credit: 0 TO 16 hours.
Approved for S/U grading only. May be repeated to a maximum of 16 hours. Prerequisite: Consent of instructor and graduate program coordinator.

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Instructor Approval Required