

## PROGRAM OF STUDY

### Concentration in Building Performance

in the Master of Architecture program at the University of Illinois at Urbana-Champaign

This Concentration can be completed within the normal timeframe of the M.Arch degree. Successful completion of the Concentration will be noted on the student's official transcript.

#### Required Coursework

Students who declare the Concentration must complete a minimum of 21 credit hours of coursework with a focus on building performance. Specific course requirements are detailed below.

#### ARCHITECTURE STUDIOS: 12 credit hours

Two semesters of graduate-level design studios (6 hours each) as described below.

- ARCH 573 Design: Technology & Performance (two semesters):  
Taught by faculty members whose primary Program Area affiliation is Building Performance or as approved by the Chair of the Building Performance Program Area. Each studio course will have a unique topical focus, design project, and project site. These studios also form part of the normal M.Arch Core Curriculum, which requires four semesters of 500-level design studios. If a 573 course is cross-listed as ARCH 575, then it will also satisfy the M.Arch core requirement for one semester of 575.

#### ELECTIVES: 9 credit hours

Elective courses on Building Performance topics as described below totaling at least 9 credit hours (generally three courses @ 3 hours each). These courses also fulfill elective requirements for the M.Arch degree.

- ARCH 544: Building Systems and Design Integration
- ARCH 576 Seminars:  
Students may select from seminars taught by Building Performance faculty, which include:
  - ARCH 576-BT: Design at the Intersection of Building and Technology
  - ARCH 576-CLI: Climate Design
  - ARCH 576-EXP: Experimental Envelopes
  - ARCH 576-FPS: Theory of Function, Programming, and Space Organization
  - ARCH 576-HPB: High Performance Building Design
  - ARCH 576-PIN: Parametric Integration
  - New ARCH 576 courses in Building Performance as they become available
- ARCH 594 Special Problems in Building Science & Technology  
Students may select from courses taught by Building Performance faculty, which include:
  - ARCH 594-BCS: Building Energy Case Studies
  - ARCH 594-DD: Daylighting Design
  - ARCH 596-GDS: Assessment of Green Design Strategies Through Simulation
  - ARCH 594-M: Building Mechanical Systems
  - ARCH 594-SIM: Building Energy Simulation
  - New ARCH 594 courses as they become available

*(list continues on next page)*

- ARCH 595 Special Problems in Structural Theory & Design  
Students may select from courses taught by Building Performance faculty, which include:
  - ARCH 595-EQ: Seismic Analysis and Design
  - ARCH 595-IN: Integrated Design and Construction of Buildings
  - New ARCH 595 courses as they become available
  
- ARCH 597 Special Problems in Architectural Design (Independent Study)  
Students may fulfill up to 3 credit hours for the Concentration with an Independent Study project or projects under the supervision of a faculty member whose primary Program Area affiliation is Building Performance or as approved by the Chair of the Building Performance Program Area. Students must complete an ARCH 597 Independent Study Proposal Form, obtain signed approval from the faculty member who will supervise the study, and submit the proposal to the Graduate Office for final approval and enrollment permission.
  
- Other Graduate Courses  
Faculty in other Program Areas may on occasion offer 400- or 500-level courses that are appropriate for the Building Performance Concentration. Courses offered in other departments of the University, such as Engineering and Urban & Regional Planning, may also address topics in Building Performance. With prior approval, students may fulfill up to 3 credit hours for the Concentration with such coursework. In such cases, the Chair of Building Performance in consultation with the student's Advisor and after reviewing a formal written request from the student may approve the course for fulfillment of the Concentration.

### **Declaring the Concentration**

Students who declare the Concentration in Building Performance are required to submit to their selected Advisor, at the end of their first semester of study and not later than the first day of classes of the second semester, a Plan of Study that outlines their intended coursework during each semester of the M.Arch program. This plan must be signed by the student and the Advisor and submitted to the Chair of the Building Performance Program Area and the Director of Graduate Studies not later than the second week of classes in the student's second semester of study (see attached form).

# Declaration of Intention to Pursue The Concentration in Building Performance

in the Master of Architecture program at the University of Illinois at Urbana-Champaign

Please complete this form and indicate on page two your planned program of study.

I intend to pursue the Concentration in Building Performance. I have spoken with the Advisor listed below and they have reviewed my proposed plan of study.

**Name of Student:**

\_\_\_\_\_ (PRINT) \_\_\_\_\_ (SIGN) \_\_\_\_\_ (MM/DD/YYYY)

I have spoken with and advised the student named above. I agree to serve as their primary Advisor for the Concentration in Building Performance. I have reviewed and approved their plan of study as shown on page 2.

**Name of Building Performance Faculty Member Serving as Advisor:**

\_\_\_\_\_ (PRINT) \_\_\_\_\_ (SIGN) \_\_\_\_\_ (MM/DD/YYYY)

**Chair of the Building Performance Program Area:**

\_\_\_\_\_ (PRINT) \_\_\_\_\_ (SIGN) \_\_\_\_\_ (MM/DD/YYYY)

**Director of Graduate Studies:**

\_\_\_\_\_ (PRINT) \_\_\_\_\_ (SIGN) \_\_\_\_\_ (MM/DD/YYYY)

**Typical Plan of Study**

M.Arch degree requires 62 credit hours (min.), including 46 hours of core requirements.

Concentration requirements include 12 hours of ARCH 573 Studio (which are also part of the core) and at least 9 hours of approved electives.

If you are altering the semesters in which you are planning to take the core courses, please work with your Advisor to adjust this plan as required.

**First Semester**

- ARCH 536: Planning and Design of Structural Systems 4 hours
  - ARCH 57X: Design Studio 6 hours
  - ARCH 577: Theories of Architecture 4 hours
  - Elective: \_\_\_\_\_ hours
- TOTAL FIRST SEMESTER CREDIT: \_\_\_\_\_ hours

**Second Semester**

- ARCH 517: Contemporary Architectural History 3 hours
  - ARCH 57X: Design Studio 6 hours
  - Elective(s): \_\_\_\_\_ hours
  - \_\_\_\_\_ hours
- TOTAL SECOND SEMESTER CREDIT: \_\_\_\_\_ hours

**Third Semester**

- ARCH 537: Architectural Control Systems 4 hours
  - ARCH 57X/575: Design Studio 6 hours
  - Elective(s): \_\_\_\_\_ hours
  - \_\_\_\_\_ hours
- TOTAL THIRD SEMESTER CREDIT: \_\_\_\_\_ hours

**Fourth Semester**

- ARCH 501: Professional Practice 3 hours
  - ARCH 538: Design and Construction Futures 4 hours
  - ARCH 57X/575: Design Studio 6 hours
  - Elective(s): \_\_\_\_\_ hours
  - \_\_\_\_\_ hours
- TOTAL FOURTH SEMESTER CREDIT: \_\_\_\_\_ hours

**CORE CREDIT TOTAL:** 46 hours  
**+ ELECTIVE CREDIT TOTAL:** \_\_\_\_\_ hours  
**= DEGREE TOTAL:** \_\_\_\_\_ hours (62 minimum)