

# : BUILDING PERFORMANCE CONCENTRATION - MARCH

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## In Workflow

1. U Program Review (dforgacs@illinois.edu; eastuby@illinois.edu; aledward@illinois.edu)
2. 1767 Committee Chair (stallmyr@illinois.edu)
3. 1767 Head (boubekri@illinois.edu)
4. KR Dean (nicturn@illinois.edu; mmedward@illinois.edu)
5. University Librarian (jpwilkin@illinois.edu)
6. Grad\_College (agrindly@illinois.edu; jch@illinois.edu; lowry@illinois.edu)
7. Provost (kmartens@illinois.edu)
8. Senate EPC (bjlehman@illinois.edu)
9. Senate (jtempel@illinois.edu)
10. U Senate Conf (none)
11. Board of Trustees (none)
12. IBHE (none)
13. DMI (eastuby@illinois.edu; aledward@illinois.edu; dforgacs@illinois.edu)

## Approval Path

1. Mon, 11 Nov 2019 16:00:02 GMT  
Deb Forgacs (dforgacs): Approved for U Program Review
2. Mon, 11 Nov 2019 16:17:47 GMT  
John Stallmeyer (stallmyr): Approved for 1767 Committee Chair
3. Mon, 11 Nov 2019 17:35:52 GMT  
Mohamed Boubekri (boubekri): Approved for 1767 Head
4. Mon, 18 Nov 2019 20:08:05 GMT  
Nicole Turner (nicturn): Approved for KR Dean
5. Mon, 18 Nov 2019 20:09:06 GMT  
John Wilkin (jpwilkin): Approved for University Librarian
6. Tue, 04 Feb 2020 18:30:45 GMT  
Allison McKinney (agrindly): Approved for Grad\_College
7. Tue, 04 Feb 2020 20:52:11 GMT  
Kathy Martensen (kmartens): Approved for Provost

## New Proposal

Date Submitted: Sun, 10 Nov 2019 22:15:08 GMT

## Viewing:: Building Performance Concentration - MARCH

Changes proposed by: John Stallmeyer

## Proposal Type

### Proposal Type:

Concentration (ex. Dietetics)

Proposal Title:

**if this proposal is one piece of a multi-element change please include the other impacted programs here. *example: A BS revision with multiple concentration revisions***

Concentration in Building Performance in the Master of Architecture (M.ARCH) Program. This is one of 3 new concentrations being proposed for the M.ARCH program (also Health and Wellbeing concentration, key 934, and Urbanism concentration, key 878).

**EP Control Number**

ER.20.116

**Official Program Name**

Building Performance Concentration - MARCH

**Effective Catalog Term**

Fall 2020

**Sponsor College**

Fine & Applied Arts

**Sponsor Department**

Architecture

**Sponsor Name**

Stallmeyer

**Sponsor Email**

stallmyr@illinois.edu

**Program Description and Justification**

Provide *abrief* description and justification of the program, including highlights of the program objectives, and the careers, occupations, or further educational opportunities for which the program will prepare graduates, when appropriate.

The Concentration in Building Performance in the Master of Architecture (M.Arch) Program at the University of Illinois at Urbana-Champaign provides students the opportunity to develop an in-depth understanding of building performance through the integrated design and analysis of environmental, enclosure, structural and related systems. Coursework enables students to engage contemporary architectural issues related to sustainability, environmentally responsible use of energy and materials, human comfort and health, and constructability. In addition to completing architectural design studios focused on technology and performance, students will select from a series of specialized elective courses in building technologies, energy modeling and simulation, building-envelope design, climate-responsive design, daylighting, advanced structural design and analysis, and integrated design processes. The Concentration thus gives students a strong foundation and expertise in the various principles and technologies that contribute to the design of high-performance buildings in contemporary architectural practice.

**Is this program interdisciplinary?**

No

**Corresponding Program(s):**

**Corresponding Program(s)**

Architecture, MARCH

**Academic Level**

Graduate

**Additional concentration notes (e.g., estimated enrollment, advising plans, etc.)**

Graduate students who want to complete the Concentration must formally declare their intention to do so by the end of the first semester of study and request a Building Performance faculty member to serve as their primary Advisor. The Advisor must agree to mentor and advise the student in course selection.

This Concentration can be completed within the normal timeframe of the M.Arch degree.

**Is This a Teacher Certification Program?**

No

**Will specialized accreditation be sought for this program?**

No

**Enrollment**

**Number of Students in Program (estimate)**

**Year One Estimate**

15

**5th Year Estimate (or when fully implemented)**

30

**Delivery Method**

**This program is available:**

On Campus

**Budget**

**Will the program or revision require staffing (faculty, advisors, etc.) beyond what is currently available?**

No

## Resource Implications

### Facilities

**Will the program require new or additional facilities or significant improvements to already existing facilities?**

No

### Technology

**Will the program need additional technology beyond what is currently available for the unit?**

No

### Non-Technical Resources

**Will the program require additional supplies, services or equipment (non-technical)?**

No

## Resources

### Faculty Resources

**Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. Describe how the unit will support student advising, including job placement and/or admission to advanced studies.**

This Concentration consists of courses already being taught within the School of Architecture. No additional faculty resources are required.

Advising will be supported by the Building Performance Area Faculty and the Chair of the Area in consultation with the M.ARCH advisor.

### Library Resources

**Describe your proposal's impact on the University Library's resources, collections, and services. If necessary please consult with the appropriate disciplinary specialist within the University Library.**

None

### Instructional Resources

**Will there be any reduction in other course offerings, programs or concentrations by your department as a result of this new program/proposed change?**

No

**Does this new program/proposed change result in the replacement of another program?**

No

**Does the program include other courses/subjects impacted by the creation/revision of this program?**

No

## **Financial Resources**

**How does the unit intend to financially support this proposal?**

This proposal introduces no additional financial burden on the unit.

**Will the unit need to seek campus or other external resources?**

No

## **Program Regulation and Assessment**

**Briefly describe the plan to assess and improve student learning, including the program's learning objectives; when, how, and where these learning objectives will be assessed; what metrics will be used to signify student's achievement of the stated learning objectives; and the process to ensure assessment results are used to improve student learning. (Describe how the program is aligned with or meets licensure, certification, and/or entitlement requirements, if applicable).**

The concentration will be assessed yearly at the close of the Spring Semester. Assessment will take place in three formats.

1. Students in the concentration will be asked to assess the concentration courses in writing in terms of the courses learning objectives, whether the program is meeting their expectations, meeting student goals, and the efficacy of specific courses in meeting these goals. Students will be asked to suggest areas for improvement. These student assessments will be shared with all program area faculty. These assessments will be anonymous and will be conducted by the chair of the Program Area.
2. Student Learning objectives will be measured using their performance in concentration course work. A report of same will be made available to all Program Area Faculty.
3. Faculty of the program area will meet at the close of each Spring semester to assess the concentration, its learning objectives and the ability of students to meet these objectives based on summaries of 1 and 2 above. Faculty will suggest areas needing improvement and these will be shared with all Program Area Faculty. The faculty of the program area will collaborate to develop a plan for modifications to content of core courses to address areas needing improvement.

**Is the career/profession for graduates of this program regulated by the State of Illinois?**

Yes

**If yes, please describe.**

The architecture profession is regulated by the Illinois Department of Professional Regulation. Licensure is required for the practice of Architecture in the State.

## Program of Study

"Baccalaureate degree requires at least 120 semester credit hours or 180 quarter credit hours and at least 40 semester credit hours (60 quarter credit hours) in upper division courses" (source: <https://www.ibhe.org/assets/files/PrivateAdminRules2017.pdf>). For proposals for new bachelor's degrees, if this minimum is not explicitly met by specifically-required 300- and/or 400-level courses, please provide information on how the upper-division hours requirement will be satisfied.

**All proposals must attach the new or revised version of the Academic Catalog program of study entry. Contact your college office if you have questions.**

**For new programs, attach Program of Study**

PROGRAM OF STUDY\_Concentration in Building Performance\_V2[1] (3)revised.docx

Catalog Page Text

**Catalog Page Text: Description of program for the catalog page. This is not official content, it is used to help build the catalog pages for the program. Can be edited in the catalog by the college or department.**

The Concentration in Building Performance in the Master of Architecture (M.Arch) Program at the University of Illinois at Urbana-Champaign provides students the opportunity to develop an in-depth understanding of building performance through the integrated design and analysis of environmental, enclosure, structural and related systems. Coursework enables students to engage contemporary architectural issues related to sustainability, environmentally responsible use of energy and materials, human comfort and health, and constructability. In addition to completing architectural design studios focused on technology and performance, students will select from a series of specialized elective courses in building technologies, energy modeling and simulation, building-envelope design, climate-responsive design, daylighting, advanced structural design and analysis, and integrated design processes. The Concentration thus gives students a strong foundation and expertise in the various principles and technologies that contribute to the design of high-performance buildings in contemporary architectural practice.

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.

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.

### Statement for Programs of Study Catalog

Students who declare the Concentration must complete a minimum of 21 credit hours of coursework with a focus on building performance.

Code	Title	Hours
<b>Required Architecture Studios</b>		<b>12</b>
To be taken from a faculty member whose primary Program Area affiliation is Building Performance or as approved by the chair of the Building Performance Program Area		
ARCH 573	Design: Technology and Performance	6
ARCH 573	Design: Technology and Performance	6
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.		

Code	Title	Hours
<b>Elective Courses</b>		<b>9</b>
These courses also fulfill elective requirements for the M.Arch. degree.		

Students must complete 9 hours of coursework in the School of Architecture focused on issues of building performance and taught by Faculty in the Building Performance Program area. Faculty offer a wide variety of graduate courses that vary by semester. Students should consult with their advisor on a course of study that includes coursework suited to the student's interests.

#### 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 units of the University 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.

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.

<b>Code</b>	<b>Title</b>	<b>Hours</b>
<b>Total Hours to earn the Concentration in Building Performance for the M.Arch.</b>		<b>21</b>

## EP Documentation

## DMI Documentation

Key: 933

## **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.

#### **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)