

New Proposal

Date Submitted: 09/02/22 8:18 am

Viewing: **: Architecture: Detail and
Fabrication, MARCH**

Last edit: 10/25/22 1:45 pm

Changes proposed by: Nicole Turner

In Workflow

1. **U Program Review**
2. **1767 Committee Chair**
3. **1767 Head**
4. **KR Dean**
5. **University Librarian**
6. **Grad_College**
7. **Provost**
8. **Senate EPC**
9. Senate
10. U Senate Conf
11. Board of Trustees
12. IBHE
13. HLC
14. DOE
15. DMI

Approval Path

1. 09/09/22 10:57 am
Emily Stuby (eastuby):
Approved for U Program Review
2. 09/14/22 11:24 am
David Isern (disern):
Approved for 1767 Committee Chair
3. 09/16/22 2:33 pm
Francisco Rodriguez-Suarez (paco70):
Approved for 1767 Head
4. 09/22/22 12:48 pm
Nicole Turner (nicturn):

- Approved for KR
Dean
- 5. 09/22/22 12:49
pm
John Wilkin
(jpwilkin):
Approved for
University
Librarian
- 6. 10/04/22 2:43 pm
Allison McKinney
(agrindly):
Approved for
Grad_College
- 7. 10/06/22 3:58 pm
Brooke Newell
(bsnewell):
Approved for
Provost

Proposal Type

Proposal Type:
Concentration (ex. Dietetics)

Administration Details

Official Program Name	Architecture: Detail and Fabrication, MARCH	
Diploma Title	Master of Architecture in Architecture, Detail and Fabrication Concentration	
Sponsor College	Fine & Applied Arts	
Sponsor Department	Architecture	
Sponsor Name	David J Isern	
Sponsor Email	disern@illinois.edu	
College Contact	Nicole Turner	College Contact Email
	nicturn@illinois.edu	
College Budget Officer	Greg Anderson	
College Budget Officer Email	gnanders@illinois.edu	

List the role for rollbacks (which role will edit the proposal on questions from EPC, e.g., Dept Head or Initiator) and/or any additional stakeholders. Purpose: List here who will do the editing work if proposal needs rolled back. And any other stakeholders.

KR Dean

Does this program have inter-departmental administration?

No

Proposal Title

Effective Catalog Term Fall 2023

Proposal Title (either Establish/Revise/Eliminate the Degree Name in Program Name in the College of XXXX, i.e., Establish the Bachelor of Science in Entomology in the College of Liberals Art and Sciences, include the Graduate College for Grad Programs)

Establish a concentration in Detail and Fabrication in the Master of Architecture in Architecture in the College of Fine and Applied Arts and the Graduate College

Does this proposal have any related proposals that will also be revised during the next 6 weeks? Consider Majors, Minors, Concentrations & Joint Programs in your department. Please know that this information is used administratively to move related proposals through workflow efficiently. Example: If you are revising the BS proposal and one related concentration within the next 6 weeks, "This BS proposal (key 567) is related to the Concentration A proposal (key 145)."

Program Justification

Provide a brief 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 Detail and Fabrication Concentration in the Master of Architecture Program at the University of Illinois at Urbana Champaign provides students with the opportunity to gain design and technical knowledge that culminates in the Professional Degree in Architecture that allows the graduates to pursue their Architecture license.

A series of required and elective courses exposes students to the large and evolving methods, techniques, and skills needed in the profession as well as gives the students a strong foundation to be critical thinkers and leaders in the Architecture Profession.

Concentration coursework enables students to explore in more detail areas that the Architecture profession is in need of or has the potential to generate innovative and cutting-edge processes and outcomes. Concentrations also allow the students to graduate with knowledge that allows them to focus on their future career path, making them more competitive in the job market and in the profession.

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 outside of the sponsoring department impacted by the creation/revision of this program?

No

Program Regulation and Assessment

Plan to Assess and Improve Student Learning

Illinois Administrative Code: 1050.30(b)(1)(D) Provision is made for guidance and counseling of students, evaluations of student performance, continuous monitoring of progress of students toward their degree objectives and appropriate academic record keeping.

List the program's student learning outcomes. Each outcome should identify what students are expected to know and/or be able to do upon completing this program.

Detail and Fabrication

Upon completion of this concentration the students will have an understanding of the following:

1. Understanding of combined conceptual development of design, details, and materials.
2. Hands-on material experience.
3. Understanding of the possibilities available through custom-made and mass-produced fabrication methods.
4. Understanding of scale as part of the conceptual approach and fabrication and technology.
5. Knowledge of digital tools such as 3D printers, robotic arms, scanners, and other fabrication equipment.
6. Understanding of methods to help resolve and contribute to the design process and environment.
7. Understanding and applicability of design at a human scale.
8. Understanding how to make positive and long-lasting contributions to the built environment.

Describe how, when, and where these learning outcomes will be assessed.

Describe here:

The concentration will be assessed yearly at the close of the Spring Semester. Assessment will take place in three formats: student assessments, course work, and overall faculty review of program.

Identify faculty expectations for students' achievement of each of the stated student learning outcomes. What score, rating, or level of expertise will signify that students have met each outcome? Provide rating rubrics as necessary.

1. All concentration students will have a group or individual town hall meeting as well as ask them 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 the 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.

Explain the process that will be implemented to ensure that assessment results are used to improve student learning.

The faculty of the program area will collaborate to develop a plan for modifications to content of core courses to address areas needing improvement.

Program

Description and

Requirements

Attach Documents

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.

Attach Program of
Study-related
information such
as sample
sequences (for
undergraduate
programs) or

college-level forms.

Catalog Page Text - Overview Tab

Description of program for the catalog page. This is not official content, it is used to help build the new catalog page for the program. Can be edited in the catalog by the college or department.

Students declaring the Detail and Fabrication Concentration are required to submit, at the end of their first semester of study and not later than the first day of classes of the second semester, a planned schedule that outlines their coursework for the next three semesters. This plan must be signed by the student and the Advisor and submitted to the Chair of the Detail and Fabrication 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 hours of coursework with a focus on detail and fabrication.

Course List

Code	Title	Hours
Architecture Studios		12
To be taken from a faculty member whose primary Program Area affiliation is Detail and Fabrication or as approved by the chair of the Detail and Fabrication Program Area		
ARCH 571	Design: Detail and Architectonics	6
ARCH 571	Design: Detail and Architectonics	6

Course List

Code	Title	Hours
Architecture Graduate Courses		9
These courses may also fulfill elective requirements for the M.Arch. degree. Students will complete three, 3 credit hour courses to earn the 9 hours for this section.		
ARCH 518	Recording Historic Buildings	3
ARCH 519	Conserv of Building Materials	3
ARCH 576	Architectural Design Seminar (Students may select from seminars taught by Detail and Fabrication faculty, including section FAB Age of Digital Reproduction, section PUP Picking Up the Pieces, section WFW Wood Furniture Workshop, and new ARCH 576 courses in Detail and Fabrication as they become available)	3
ARCH 593	Special Problems in Detail and Fabrication (Students may select from courses taught by Detail and Fabrication faculty. New ARCH 593 courses as they become available.)	3
ARCH 590	Directed Research (Students may fulfill up to 6 credit hours for the Concentration with a Faculty Directed Research Project or Projects under the supervision of a faculty member whose primary Program Area affiliation is Detail and Fabrication or as approved by the Chair of the Detail and Fabrication Program Area. Students must complete an ARCH 590 Faculty Directed Research 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.)	0 to 6

Other Graduate Courses

Code Title Hours

Faculty in other Program Areas may on occasion offer 400 or 500 level courses that are appropriate for the Detail and Fabrication Concentration. Courses offered in other departments of the University, such as Art and Design and Engineering, may also address topics in Detail and Fabrication. With prior approval, students may fulfill up to 3 credit hours for the Concentration with such coursework. In such cases, the Chair of Detail and Fabrication 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.

Course List

Code Title Hours

Total Hours to earn the Concentration in Detail and Fabrication for the M.Arch.21

Program Relationships

Corresponding

Program(s):

Corresponding Program(s)
Architecture, MARCH

Program Features

Academic Level Graduate

Is This a Teacher Certification Program?

No

Will specialized accreditation be sought for this program?

No

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

Students who declare the Concentration in Detail and Fabrication 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 Detail and Fabrication 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.

Delivery Method

This program is available:

On Campus - Students are required to be on campus, they may take some online courses.

Enrollment

Number of Students in Program (estimate)

Year One Estimate	10	5th Year Estimate (or when fully implemented)	15
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Budget

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

No

Additional Budget Information

Attach File(s)

Financial Resources

How does the unit intend to financially support this proposal?

This proposal does not require additional financial support from the unit.

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

No

Attach letters of support

Is this program requesting self-supporting status?

No

Attach File(s)

Faculty Resources

Please address the impact on faculty resources including any changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc.

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

Advising will be supported by the Detail and Fabrication 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.

Library collections, resources and services are sufficient to support the graduate concentration in Detail and Fabrication.

HLC Section

Credit Hours

Existing or repackaged curricula (Courses from existing inventory of courses):	Number of Credit Hours: 100	21 Percent of Total:
Revised or redesigned curricula (Courses for which content has been revised for the new program):	Number of Credit Hours: 0	0 Percent of Total:
New curricula (Courses developed for the new program that have never been offered):	Number of Credit Hours: 0	0 Percent of Total:
Total Credit Hours of the Program: 100	Number of Credit Hours: 100	21 Percent of Total:

New Faculty Required

Will new faculty expertise or new faculty members be needed to launch this program?

No

Please explain existing coverage:

Faculty already identify in an area within Architecture, such as those who teach in the Detail and Fabrication program area. Therefore, no new faculty are needed for the development of this concentration.

Additional Funds

Will the proposed program require a large outlay of additional funds by the institution?

No

Institutional Funding

Please explain institutional funding for proposed program:

The current institutional funding model encompasses the courses required for this concentration. Therefore, no additional funds are needed for this program.

EP Documentation

EP Control Number EP.23.013

Attach Rollback/Approval Notices [EP 23013 Concentration in Detail and Fabrication, MARCH.docx](#)

This proposal requires HLC inquiry No

DMI Documentation

Attach Final Approval Notices

Banner/Codebook Name

Program Code:

Minor Code	Conc Code	Degree Code	Major Code
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Senate Approval Date

Senate Conference Approval Date

BOT Approval Date

IBHE Approval Date

HLC Approval Date

DOE Approval Date

Effective Date:

Attached Document Justification for this request

Program Reviewer Comments **Brooke Newell (bsnewell) (10/24/22 10:28 am):** Slight modification of Program of Study, catalog page text per request of EPC Subcommittee Chair in conversation with sponsor.

Dear Jennie,

I am sorry for not sending you the repose. Thank you for sending me an email. I wrote the reply last week and did not send it. In my mind I had; therefore, I took it off my To-Do list. My apologies.

The reply to the questions below. Let me know if anything else comes up.

Best wishes,
David

David J. Isern, *ARdP, Assoc. AIA, APA, NOMA*
Associate Director for Academic Affairs

Director of Graduate Studies

School of Architecture

College of Fine & Applied Arts

University of Illinois Urbana-Champaign

From: Pahre, Jennie <jpahre@illinois.edu>

Date: Thursday, October 13, 2022 at 1:07 PM

To: Isern, David <disern@illinois.edu>

Cc: Turner, Nicole Marion Landwehr <nicturn@illinois.edu>

Subject: Re: EP 23.013, Concentration in Detail and Fabrication, MARCH

Dear David,

Thank you for your helpful explanation; I appreciate it.

I have just received three more late-breaking questions from another member of my subcommittee. I'm sorry to send them in bits and pieces-- rather than in one note.

They remaining questions are:

1. Should learning outcome 2 be changed, so that it can be more directly assessed?

(Note: This learning outcome says: "Hands-on material experience." It seems to me that, if the point is to simply ensure that a student has at least one hands-on experience, then the learning outcome is likely fine; however, if experience of a particular quality/quantity is the goal, then the learning outcome may need tweaking.)

There is no quota to be met for the certificate, no specific quantity although always striving for quality, as the students can focus and work with one type of material (i.e. concrete) or can focus on the process of material use (i.e. CNC printing that can use multiple material types). The reason why hand-on experience is there, is to differentiate this concentration from other concentrations within the school, and from across the academy, that take on fabrication at the computational/coding or theoretical levels. The students through course like 571 or 593 (electives) will have hands-on experience and work. This is part of the core of the architecture degree and a core value for the school in all facets.

2. Are students supposed to take ARCH 571 twice? It would be helpful to state that the course should be repeated.

ARCH 571 is a core studio class for our M.Arch degree. Arch 571 is part of the list of ARCH 57X that are core studio courses. Students can repeat any ARCH 57X twice if they like. To fulfill the concentration students, need to take ARCH 571 twice. The course is not repeated, meaning, there are many sections of ARCH 571, and students wouldn't take the same studio course (not the same topic, nor the same faculty) even if number is listed ARCH 571. (I hope this makes sense)

3. Why is ARCH 590 listed as 0-6 credits, if the requirement in the concentration is 3 credits?

ARCH 590 is direct research. The concentration requires a minimum of 21 credits total. Therefore, if the student decides to take on Direct Research with more than 3 credits, the student is able. This will allow them to meet the minimum requirements.

With thanks,

Jennie

JENNIFER N. PAHRE

Teaching Associate Professor and Director of Undergraduate Studies

College of Law

University of Illinois Urbana-Champaign

202 Law Building | M/C 594

Champaign, IL 61820

217.333.0712 | jpahre@illinois.edu

www.law.illinois.edu