

# Cover Sheet: Request 14566

## Bachelor of Design in Architecture Curriculum Change

### Info

Process	Major Curriculum Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Mark Mcglothlin mmcglath@ufl.edu
Created	12/19/2019 3:30:59 PM
Updated	2/11/2020 4:24:02 PM
Description of request	This request addresses a proposed change to the Building Technology and Digital Topics/Media coursework within the Bachelor of Design in Architecture Curriculum. Accompanying new course requests have been created as part of this proposed change.

### Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	DCP - Architecture 011502000	Mark Mcglothlin		12/19/2019
Architecture_UG Catalog 2019_20 Base.docx					12/19/2019
College	Approved	DCP - College of Design, Construction and Planning	Abdol Chini		12/19/2019
No document changes					
Associate Provost for Undergraduate Affairs	Approved	PV - Associate Provost for Undergraduate Affairs	Casey Griffith		1/23/2020
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			1/23/2020
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
Academic Assessment Committee Notified					
No document changes					
College Notified					
No document changes					

# Major|Modify\_Curriculum for request 14566

## Info

**Request:** Bachelor of Design in Architecture Curriculum Change

**Description of request:** This request addresses a proposed change to the Building Technology and Digital Topics/Media coursework within the Bachelor of Design in Architecture Curriculum.

Accompanying new course requests have been created as part of this proposed change.

**Submitter:** Mark Mcglothlin mmcglath@ufl.edu

**Created:** 12/19/2019 10:12:10 PM

**Form version:** 3

## Responses

**Major Name** Architecture

**Major Code** ARC

**Degree Program Name** Bachelor of Design

**Undergraduate Innovation Academy Program** No

**Effective Term** Earliest Available

**Effective Year** Earliest Available

**Current Curriculum for Major** The existing curriculum for the Bachelor of Design in Architecture major is a 120 credit degree program, consisting of a mixture of design studios, history/theory coursework, topical technology courses (such as structures and environmental courses), digital media courses, and a complement of general education courses, electives, and required UF courses. There is a total of 81 credits of ARC-designated coursework in the undergraduate curriculum. The majority of these credits align with design studio courses (42 credits), with the remaining course credit distribution as follows; History/Theory - 15 credits, Building Technology - 15 credits, Digital Topics/Media - 9 credits. Model Semester Plan is provided (see attached, referenced from 2019-20 Undergraduate Catalog).

**Proposed Curriculum Changes** The changes that are proposed will consolidate the topics of seven existing building technology courses and digital topics/media courses and replace the existing courses with a series of five new, integrated building technology courses. The changes will not affect the associated credits of these courses (21 credits of existing courses, 21 credits of new courses). Modifications to the Model Semester Plan are provided (see attached, referenced from 2019-20 Undergraduate Catalog with Track Changes).

As a summary, the existing courses and new courses are noted below:

ARC2180 Introduction to Digital Architecture (3CR) - Replace with ARC2XXX Introduction to Building Technology (3CR)

ARC2461 Materials and Methods of Construction 1 (3CR) - Replace with ARC2XXX Integrated Building Technology 1 (3CR)

ARC3181 Advanced Topics in Digital Architecture (3CR) and ARC3505 Introduction to Architectural Structures (3CR)- Replace with ARC3XXX Integrated Building Technology 2 (6CR)

ARC3463 Materials and Methods of Construction 2 (3CR) and ARC3610 Environmental Technology 1 (3CR) - Replace with ARC3XXX Integrated Building Technology 3 (6CR)

ARC4620 Environmental Technology 2 (3CR) - Replace with ARC4XXX Integrated Building Technology 4 (3CR)

Existing Credit Load of these seven courses: 21CR

Proposed Credit Load of new courses: 21CR

Note: These course are not available through UF Online.

**UF Online Curriculum Change** No

**Pedagogical Rationale/Justification** The architectural profession has long been understood to exist at the intersection of the arts and sciences, wherein a range of technical subjects needed to be intersected with the broader aspirations of the design process. Earlier curricular models addressed

this intersection by offering courses that were dedicated to specific technical subjects (such as structures, or environmental technologies). These courses were aligned with corresponding design studios, with the intent of finding opportunities for each to inform the other.

The advancement of digital technologies has had a profound impact on the way that building technologies and the design process are understood, and with this shift has come an awareness that older, topically-siloed attitudes about design thinking and building technologies have lost their relevance. As an example of the extents of this shift, it can be noted that many, if not all, Architectural Registration Exams have moved away from subject-based exams in favor of integrated exams, wherein the issues of design and building technologies can be addressed simultaneously.

Our goal with the proposed changes to our undergraduate curriculum are intended to replace an older curricular model that has been rooted in the topically-siloed courses, and replace these courses with an integrated set of courses that allow students to better understand the interwoven relationship between design work, digital tools, and building technologies. In doing so, we intend that our students will graduate better prepared to engage a highly dynamic and evolving discipline.

**Impact on Enrollment, Retention, Graduation** No impact on enrollment is anticipated

**Assessment Data Review** SLO's are assessed through studio reviews. As the changes to the curriculum do not affect studios directly, there is no change to the assessment methods at this time.

That noted, the proposed realignment between design studios and the proposed integrated technology courses should enhance student understanding of relationship of design work and building technologies, and with this enhanced understanding, we anticipate even stronger student work as part of our SLO assessment process.

**Academic Learning Compact and Academic Assessment Plan** The changes that are proposed do not directly affect the Academic Learning Compact or Academic Assessment Plan.

**Catalog Copy** Yes

## ARCHITECTURE MAJOR

A student's creativity and individuality are rewarded in the School of Architecture's studio-based learning experience. Students benefit from the close student-to-teacher ratios and a true interdisciplinary learning environment.

### ABOUT THIS PROGRAM

- College: [Design, Construction and Planning](#)
- Degree: Bachelor of Design | *B.Des., a preprofessional degree*
- Credits for Degree: 120
- [Additional Information](#)

*To graduate with this major, students must complete all university, college, and major requirements.*

- [Overview](#)
- [Critical Tracking](#)
- [Model Semester Plan](#)
- [Academic Learning Compact](#)

### Overview

Many students supplement their education with study-abroad and off-site learning opportunities in Vicenza, Asia, Mexico, Nantucket and more. An extensive library, modern computer labs, woodshop, 3D fabrication lab and beautiful college environment facilitate creativity. Students regularly exhibit their models and drawings in the college's gallery.

The studio sequence progressively and thoroughly explores various formal, conceptual and technical considerations and how they interrelate in the creation of space. The ideas and experience that students gain in design studio are reinforced and amplified by support courses in history, theory, structural tectonics, building technology and construction materials and methods.

Field trips to broaden and expand students' educational experience are required and will be paid for by students. Students may also be required to attend state and national professional meetings.

The School of Architecture's preprofessional Bachelor of Design program prepares students for graduate school studies toward the accredited two-year Master of Architecture degree or for jobs in private practice.

### NATIONAL ARCHITECTURAL ACCREDITING BOARD

Most states require architects to hold accredited degrees. Two types of degrees accredited by the National Architectural Accrediting Board (NAAB) are the Bachelor of Architecture (5 years) and the Master of Architecture (1, 2 or 3 years depending on institution). Both degrees are structured for registration and licensure. UF's four-year preprofessional degree is not accredited by the NAAB; the two-year Master of Architecture degree is an accredited degree.

### Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida [Common Course Prerequisites](#) may be used for transfer students.

#### SEMESTER 1

- Complete [DCP 1003](#) in Semester 1 or 2<sub>1</sub>
- Complete [ARC 1301](#) and [ARC 1701](#)
- 2.75 UF GPA required

#### SEMESTER 2

- Complete [DCP 1003](#), if not completed in Semester 1<sub>1</sub>
- Complete [ARC 1302](#) and [ARC 1702](#)
- 2.75 UF GPA required

### SEMESTER 3

- Complete ARC2180, ARC2201, ARC2303
- Complete MAC1147 or PHY2053
- 2.75 UF GPA required

### SEMESTER 4

- Complete ARC2303 and ARC2461
- Complete [MAC 1147](#) and [PHY 2053](#)
- Complete pin-up requirement
- 2.75 UF GPA required

### SEMESTER 5

- Complete ARC3320, ARC3505 and [ARC 3743](#)

1

Summer transfer students should complete DCP 1003 by Semester 4.



### Model Semester Plan

Students are required to complete [IDS 1161](#) in semester 1 or 2.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

*This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.*

#### Semester One

##### CREDITS

ARC1301      Architectural Design 1 (Critical Tracking)

4

ARC1701      Architectural History 1 (Critical Tracking; Gen Ed Humanities and International)

3

DCP1003      Creating Our Built Environment ((Critical Tracking))

1

Gen Ed Mathematics

3

State Core Gen Ed Social and Behavioral Sciences

3

##### Credits

**14**

#### Semester Two

ARC1302      Architectural Design 2 (Critical Tracking)

4

ARC1702      Architectural History 2(Critical Tracking; Gen Ed Humanities and International)

3

IDS1161      What is the Good Life (Gen Ed Humanities)

3

Gen Ed Biological or Physical Sciences

3

Gen Ed Composition: Writing Requirement

Gen Ed Composition, Writing Requirement

3

**Credits**

16

**Semester Three**

ARC2180 Introduction to Digital Architecture (Critical Tracking)

3

ARC2201 Theory of Architecture 1 (Critical Tracking; Gen Ed Humanities)

3

ARC2303 Architectural Design 3 (Critical Tracking)

5

MAC1147 Precalculus Algebra and Trigonometry (Critical Tracking; State Core Ed Mathematics)

1

4

**Credits**

15

**Semester Four**

ARC2304 Architectural Design 4 (Critical Tracking)

5

ARC2461 Materials and Methods of Construction 1 (Critical Tracking)

3

PHY2053 Physics 1 (Critical Tracking; State Core Gen Ed Physical Sciences)

1

4

Gen Ed Social and Behavioral Sciences

3

**Credits**

15

**Semester Five**

ARC3320 Architectural Design 5 (Critical Tracking)

6

ARC3505 Introduction to Architectural Structures (Critical Tracking)

3

ARC3743 Architectural History 3 (Critical Tracking)

3

State Core Gen Ed Composition; Writing Requirement

3

**Credits**

Credits

15

**Semester Six**

ARC3181            Advanced Topics in Digital Architecture

2

or

3

or

ARC4310C

ARC3321            Architectural Design 6

3

ARC3610            Environmental Technology 1

3

State Core Gen Ed Humanities

3

**Credits**

15

**Semester Seven**

ARC4220            Architectural Theory 2

3

ARC4322            Architectural Design 7

6

ARC4620            Environmental Technology 2

3

Elective

3

3

**Credits**

15

**Semester Eight**

Select one:

3

ARC3181            Advanced Topics in Digital Architecture

2

ARC4310C            Building Information Modeling

2

Elective

3

3  
ARC3463 Materials and Methods of Construction 2

3  
ARC4323 Architectural Design 8

6

### Credits

15

### Total Credits

120

### Plan of Study Grid

1 The School of Architecture requires students to complete [MAC 1147](#) and [PHY 2053](#) before semester 5. Due to the rigorous nature of design studio, students should complete these courses during the summer semesters. [MAC 2233](#) is recommended before graduating because of the admissions requirements of some graduate programs.

2 The School of Architecture requires students to complete [ARC 3181](#) or [ARC 4310C](#) before graduating, in semester 6 or 8. Students should try to complete both courses.

3 Any 3000-level or higher academic course, any 1000-level or higher foreign language where the student is not a native speaker and where the course is taken at an SUS institution, or any course sequence toward a minor.

*This program is limited access. At the end of semester 4, students will be selected according to a competitive ranking of all applicants by overall GPA, architectural GPA and faculty evaluation of design quality in the annual pin-up exhibits.*

### Academic Learning Compact

The Bachelor of Design requires students to demonstrate and to understand the creative design process and associated skills as they relate to problem solving and spatial organization. Students will develop skills in spatial design, graphic communication, materials, technology and environmental issues. Programs analyze existing and projected examples of build form, define fundamental principles and knowledge of the discipline, develop students' skills in the formation and projection of spatial experience and relate creativity to cultural and physical environment.

### Before Graduating Students Must

- Follow and achieve national accreditation (NAAB) guidelines for terminal project and portfolio assessments.
- Receive acceptable review and assessment of studio work from faculty, industry professionals and peers.
- Complete requirements for the baccalaureate degree, as determined by faculty.

### Students in the Major Will Learn to

#### Student Learning Outcomes (SLOs)

#### Content

1. Implement a creative and synthetic design process to produce unique and appropriate architectural proposals.
2. Create presentations utilizing appropriate disciplinary vocabulary and graphic skills that support design methodologies.
3. Acquire, interpret and analyze information as the basis for design proposals.

#### Critical Thinking

4. Communicate about the discipline to a variety of audiences using a variety of formats and approaches.
5. Acquire skills in drawing, electronic imaging, materials and environmental issues.

#### Communication

6. Create conceptually clear and expressive design proposals based on appropriate prioritization of issues, thoughtful analysis of project parameters and critical reflection of schematic ideas



thoughtful analysis of project parameters and critical reflection of schematic ideas.

7. Produce designs built upon the relationship between human behavior and perception in relation to the built environment.

### Curriculum Map

*I = Introduced; R = Reinforced; A = Assessed*

Courses	SLO 1	SLO 2	SLO 3	SLO 4	SLO 5	SLO 6	SLO 7
<a href="#">ARC 3181</a>					I	R	R
<a href="#">ARC 3320</a>	R, A	R, A	R, A	R, A	R, A	R, A	R, A
<a href="#">ARC 3321</a>	R, A	I, R, A	R, A	R, A	R, A	R, A	R, A
<a href="#">ARC 3463</a>					R	R	R
<a href="#">ARC 3503</a>				R	R		R
<a href="#">ARC 3610</a>					I	I	I
<a href="#">ARC 3743</a>						R	R
<a href="#">ARC 4220</a>	R				R	R	R
<a href="#">ARC 4322</a>	R, A	R, A	R, A	R, A	R, A	R, A	R, A
<a href="#">ARC 4323</a>	I, R, A	R, A	R, A	R, A	R, A	R, A	R, A
<a href="#">ARC 4620</a>	R	R	R				R

### Academic Learning Compact 7

#### Assessment Types

- Projects
- Design studio juries
- Semester studio curriculum reviews

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#### SEMESTER 2

- Complete DCP 1003, if not completed in Semester 1<sub>1</sub>
- Complete [ARC 1302](#) and [ARC 1702](#)
- 2.75 UF GPA required

### SEMESTER 3

- Complete ARC2XXX Intro to Bldg Tech, ARC2201, ARC2303
- Complete MAC1147 or PHY2053
- 2.75 UF GPA required

### SEMESTER 4

- Complete ARC2303 and ARC2XXX Integrated Tech 1
- Complete [MAC 1147](#) and [PHY 2053](#)
- Complete pin-up requirement
- 2.75 UF GPA required

### SEMESTER 5

- Complete ARC3320, ARC3XXX Integrated Tech 2 and [ARC 3743](#)  
1

Summer transfer students should complete DCP 1003 by Semester 4.

### SEMESTER 6

- Complete ARC3321, ARC3XXX Integrated Tech 3

### SEMESTER 7

- Complete ARC4322, ARC4XXX Integrated Tech 4.

### SEMESTER 8

- Complete ARC4323

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#### Credits

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4

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3

INS1161 What is the Good Life (Gen Ed Humanities)

3

Gen Ed Biological or Physical Sciences

3

Gen Ed Composition; Writing Requirement

3

**Credits**

**16**

**Semester Three**

ARC2XXX      Introduction to Building Technologies (Critical Tracking)

3

ARC2201      Theory of Architecture 1 (Critical Tracking; Gen Ed Humanities)

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ARC2303      Architectural Design 3 (Critical Tracking)

5

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**Credits**

**15**

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**Credits**

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ARC4322          Architectural Design 7

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Elective

3

3

**Credits**

15

**Semester Eight**

Select one:

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ARC4310C          Building Information Modeling

2

Elective

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State Core Gen Ed; Writing Requirement

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<a href="#">ARC 3321</a>	R, A	I, R, A	R, A	R, A	R, A	R, A	R, A
ARC 4XXX					R	R	R
ARC 3XXX				R	R		R
ARC 3 XXX					I	I	I
<a href="#">ARC 3743</a>						R	R
<a href="#">ARC 4220</a>	R				R	R	R
<a href="#">ARC 4322</a>	R, A	R, A	R, A	R, A	R, A	R, A	R, A
<a href="#">ARC 4323</a>	I, R, A	R, A	R, A	R, A	R, A	R, A	R, A
ARC 3XXX	R	R	R				R
ARC 4XXX	R	R	R		R	R	R
<b>Academic Learning Compact 7</b>							

Assessment Types

- Projects
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- Semester studio curriculum reviews