



Proposal to the Senate Educational Policy Committee

PROPOSAL TITLE: Proposal to Revise the Bachelor of Science in Architectural Studies (BSAS) in the School of Architecture, College of Fine and Applied Arts.

SPONSOR: Peter Mortensen, Director, School of Architecture, 217-333-1331, pmortens@illinois.edu.

COLLEGE CONTACT: Linda Robbennolt, Interim Associate Dean for Undergraduate Academic Affairs—Academic Programs, College of Fine and Applied Arts, 217-333-6061, faa-uaa@illinois.edu.

BRIEF DESCRIPTION: The proposed revision of the BSAS curriculum (1) creates earlier engagement with design studio instruction, (2) aligns design and technical coursework at critical junctures, (3) moves certain technical content from the BSAS to the M.Arch program of study, and (4) updates undergraduate course content such that it remains well informed by the design and technical research conducted by faculty in the School of Architecture. The table presented in **Appendix A** compares core courses in current and proposed versions of the major. This proposal is to be considered in tandem with the Proposal to Revise the Master of Architecture (M.Arch) in the School of Architecture, College of Fine and Applied Arts.

JUSTIFICATION: The BSAS, a pre-professional undergraduate degree, leads to the Master of Architecture (M.Arch), the graduate degree that prepares students for licensure and practice in the profession of architecture. The M.Arch degree is accredited by the National Architectural Accrediting Board (NAAB), which specifies the learning outcomes (“student performance criteria” or SPCs in NAAB parlance) that students must achieve in the accredited curriculum. In its current form, the BSAS addresses SPCs (for example, in the areas of integrative design and building technologies) that are better satisfied at the graduate level. That the current BSAS addresses these SPCs is a legacy of the school’s old divisional structure and its long defunct accredited five-year undergraduate degree, the B.Arch. The revised BSAS and M.Arch curricula are responsive to a faculty that is now arranged in research-oriented interdisciplinary program areas. Moreover, the course offerings allocated to the two curricula, and their sequencing within the curricula, align with curricula found at peer and aspirational peer institutions. As a consequence, the proposed BSAS can be completed with 120 credit hours, as opposed to the 127 credit hours required in the current degree program. Even at 120 credit hours, students completing the revised BSAS will have latitude to complement core courses in architecture with interdisciplinary coursework

completed outside the school. Students completing the proposed BSAS will be well prepared to compete for admission to M.Arch programs at Illinois and its peers and aspirational peers.

BUDGETARY AND STAFF IMPLICATIONS: *(Please respond to each of the following questions.)*

1) Resources

- a. How does the unit intend to financially support this proposal?

As with the current version of the BSAS, most instructional costs related to the revised BSAS will be supported primarily by the combination of state general revenue funds and tuition income that is allocated by the campus through the college. Some instruction may periodically be supported by income from restricted gifts to the school, as is currently the case.

- b. How will the unit create capacity or surplus to appropriately resource this program? If applicable, what functions or programs will the unit no longer support to create capacity?

Not applicable (see response to item 1a, above).

- c. Will the unit need to seek campus or other external resources? If so, please provide a summary of the sources and an indication of the approved support.

No. The school will not draw on campus or external resources to support ongoing operation of the proposed BSAS program of study. To cover costs associated with transitioning from the current to the revised curriculum, the school has reserved an adequate portion of an unrestricted gift it recently received.

- d. Please provide a letter of acknowledgment from the college that outlines the financial arrangements for the proposed program.

See the letter of acknowledge from the College of Fine and Applied Arts attached as **Appendix B**.

2) Resource Implications

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

An analysis of the current and proposed BSAS and M.Arch curricula indicates that, when fully implemented, the two revised curricula will require no new instructional staff (tenure-system faculty, specialized faculty, and teaching assistants) to operate efficiently. **Appendix C** provides specifics.

- b. Please address the impact on course enrollment in other units and provide an explanation of discussions with representatives of those units. *(A letter of acknowledgement from units impacted should be included.)*

Like the current version of the BSAS, the revised BSAS requires students to complete UP 101, Introduction to City Planning. There will be no change in the number of BSAS students enrolling in UP 101 each fall, when the course is usually offered.

- c. Please address the impact on the University Library (*A letter of estimated impact from the University Librarian must be included for all new program proposals. If the impact is above and beyond normal library business practices, describe provisions for how this will be resourced.*)

Together, the current and revised BSAS and M.Arch curricula cover essentially the same learning outcomes (NAAB SPCs), meaning that implementation of the revised curriculum should not require the University Library (and, specifically, the Ricker Library of Architecture and Art) to acquire new holdings, alter management of course reserves, or adjust open hours.

- d. Please address the impact on technology and space (e.g. computer use, laboratory use, equipment, etc.)

The School of Architecture maintains computer and printer labs, a fabrication lab, and a woodshop, all supported in part by college-wide undergraduate tuition differential income (to cover staff and equipment) and user charges (to cover printing). It is not expected that the revised BSAS curriculum will appreciably alter use of these facilities and services, and so operational costs associated with technology and space should be unaffected.

For new degree programs only:

- 3) Briefly describe how this program will support the University's mission, focus, and/or current priorities. Include specific objectives and measurable outcomes that demonstrate the program's consistency with and centrality to that mission.
- 4) Please provide an analysis of the market demand for this degree program. What market indicators are driving this proposal? What type of employment outlook should these graduates expect? What resources will be provided to assist students with job placement?
- 5) If this is a proposed graduate program, please discuss the programs intended use of waivers. If the program is dependent on waivers, how will the unit compensate for lost tuition revenue?

DESIRED EFFECTIVE DATE: (*Proposals may not be implemented until they go through all necessary levels of approval. The Provost's office will inform the sponsors in writing when they may implement their proposal. Proposed changes may not be publicized as final on any web sites, printed documents, etc. until written confirmation of final approval is issued.*)

Fall 2017.

STATEMENT FOR PROGRAMS OF STUDY CATALOG: (*All proposals must include either a new or revised version of the entry in the Programs of Study Catalog, if applicable. Entries will be published as approved by the Senate. Future changes in the statement for*

Programs of Study Catalog which reflect changes in the curriculum, must go through the normal review process at the appropriate levels.)

For the Degree of Bachelor of Science in Architectural Studies

The Bachelor of Science in Architectural Studies (BSAS) lays the foundation for design in two and three dimensions. Design education is complemented by course work in history, structures, and technology. Students who earn the BSAS graduate ready to enter an accredited, two-year Master of Architecture program such as the one offered at Illinois. Some students who earn the BSAS opt to pursue other graduate degrees or careers in areas allied with architecture.

In ~~this~~the BSAS curriculum, normal progress is imperative. A student failing to complete any required course more than one semester later than the time designated in the curriculum is prohibited from progressive registration in architectural courses until the deficiency is corrected. To continue at the sophomore level and beyond, a student must have a cumulative grade point average of 2.00 (A = 4.0) for all University course work attempted. For the Bachelor of Science in Architectural Studies degree, a total of ~~427~~120 semester hours are required.

First Year

First Semester

ARCH 401	Introduction to Architecture	171	Concepts and
<u>Theories of Architectural Design</u>		3	
MATH 220 or 221	Calculus		5-4
General education ⁴ <u>Education</u> ¹			6-7
FAA 101	Arts at Illinois		2
	Semester Hours		16

Second Semester

ARCH 172	Drawing and Modeling		3
ARCH 210	Introduction to the History of Architecture		3
MATH 231 or PHYS 101	Calculus II		3-5
Composition I ²			4
ARCH 210	Intro to the Hist of Arch		3
General education ⁴			6
<u>Education</u> ¹			3
	Semester Hours		16

Second Year

First Semester

ARCH 271	Graphics for		
<u>Architects</u>	<u>4273</u>		Re
<u>presentation</u>	3		
ARCH 231	Anatomy of Buildings		4
UP 101 (or approved urban studies substitute) ⁵	Introduction to City Planning		3

General Education or Electives ^{1,3}		4
Education ¹		3
General Education or Electives ^{1,3}		3
Semester Hours		16

Second Semester

ARCH 272274	Strategies of Arch Architectural Design	43
ARCH 233	Construction of Buildings 232	4
Architectural History ⁴	Structural Fundamentals	3
General Education or Electives ^{1,3}		56
Electives ³		3
Semester Hours		16

Third Year

First Semester

ARCH 344371	Design and Urbanism	6
ARCH 321	Environment Tech HVAC	4 ₁
Architecture, and Global Health		3
ARCH 373	Arch 433	Design of
Steel and the Landscape	5Reinforced Concrete Structures	4
Architectural History ⁴ Electives ³		3
ARCH 351	Statics Dynamics	4
Semester Hours		16

Second Semester

ARCH 372	Design and Human Experience	6
ARCH 342	Environment Tech Ltg Acoust	4Environmental
Controls Systems I		5
ARCH 352	Mech of Mat Design Appl	Structural Systems and
Construction Methods		4
ARCH 374	Arch Design and the City	5
Architectural History ⁴		3
Semester Hours		1615

Fourth Year

First Semester

ARCH 451	Theory	
473	Design Steel Timber	4
ARCH 475	Arch Design Development and Performance	6
Architectural History ⁴		3
Electives ³		64
Semester Hours		1613

Second Semester

ARCH 452	Theory of Reinforced Concrete	4
ARCH 474	Design and Making	6
Electives ³		126

Semester Hours **1612**

Total Hours: **127120**

- ~~1— See current University of Illinois General Education requirements.1 See current University of Illinois General Education requirements.~~

The General Education quantitative reasoning requirement I is satisfied by the required MATH 220 or MATH 221 course; the quantitative reasoning II requirement is satisfied by the MATH 231 or PHYS 101 course. Students considering a concentration in Building Structures or Structural Engineering should take MATH 231. The Advanced Composition requirement may be fulfilled by either a separate, approved Advanced Composition course or by an Advanced Composition course which also satisfies one of the general education distribution list requirements. If by the latter, electives would be taken to make up the credit deficiency.

General Education foreign language requirement 0-12 hours: Students entering the University of Illinois as freshmen in fall 2000 or later need to complete the foreign language requirement in order to graduate. To satisfy this requirement, students must complete a third semester level college foreign language course. This requirement may also be satisfied by three years of the same foreign language in high school. Students entering the University of Illinois without three years of the same foreign language in high school must take a foreign language placement test to determine the courses in which to enroll.

- 2 The Composition I requirement may be fulfilled by any of the following courses or course sequences (placement is determined by examination): ESL 111 and ESL 112; RHET 100, RHET 101, and RHET 102; or RHET 105; or CMN 111 and CMN 112.
- 3 For information about electives, see the Undergraduate Handbook at the FAA website. ~~FAA website~~. A maximum of nine hours may be taken as professional electives.
- 4 Architectural history: All students in the undergraduate program in architecture must fulfill the architectural history requirement: ~~three courses~~one course in addition to ARCH 210. Select from: ARCH 222, ARCH 402, ARCH 403, ARCH 407, ARCH 409, Section B (Barcelona only), ARCH 410, ARCH 411, ARCH 412, ARCH 413, ARCH 414, ARCH 415, ARCH 416, ARCH 417, or ARCH 418.
- 5 The UP 101 requirement can be fulfilled by substituting one of the following approved courses: ARCH 418; GEOG 204, GEOG 210, and GEOG 483.

CLEARANCES: (Clearances should include signatures and dates of approval. These signatures must appear on a separate sheet. If multiple departments or colleges are sponsoring the proposal, please add the appropriate signature lines below.)

Signatures:

Peter Mortensen

March 23, 2016

Unit Representative:

Frankie Palmuff

Date:

April 11 - 2016

Graduate College Representative:

Date:

Council on Teacher Education Representative:

Date:

**Proposal to Revise the Bachelor of Science in Architectural Studies (BSAS)
in the School of Architecture, College of Fine and Applied Arts**

Appendices

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APPENDIX A - CORE COURSES IN CURRENT AND PROPOSED CURRICULUM

BACHELOR OF SCIENCE IN ARCHITECTURAL STUDIES (BSAS) - CORE COURSES					
Current Number	Current Title	Current Hours	Proposed Number	Proposed Title	Proposed Hours
ARCH 101	Introduction to Architecture	3	ARCH 171	Concepts and Theories of Architectural Design	3
ARCH 210	Intro to the Hist of Arch	3	ARCH 210	Introduction to the History of Architecture	3
ARCH 231	Anatomy of Buildings	4	ARCH 231	Anatomy of Buildings	4
ARCH 233	Construction of Buildings	4			
			ARCH 232	Structural Fundamentals	4
ARCH 271	Graphics for Architects	4	ARCH 172	Drawing and Modeling	3
			ARCH 273	Representation	3
ARCH 272	Strategies of Arch Design	4	ARCH 274	Strategies of Architectural Design	3
			ARCH 321	Environment, Architecture, and Global Health	3
ARCH 341	Environment Tech HVAC	4			
ARCH 342	Environment Tech Ltg Acoust	4			
ARCH 351	Statics Dynamics	4			
ARCH 352	Mech of Mat Design Appl	4			
ARCH 373	Arch Design and the Landscape	5	ARCH 371	Architecture and Urbanism	6
ARCH 374	Arch Design and the City	5	ARCH 372	Design and Human Experience	6

ARCH 222, 40X, or 41X	Architectural History (select three): ARCH 222, Islamic Gardens and Architecture; ARCH 402, Intro to Hist of Arch Theory; ARCH 403, Spec Topics in Arch History; ARCH 407, Rome: The Eternal City; ARCH 409, Special Topics in Arch History (for students in Barcelona study abroad program only); ARCH 410, Ancient Egyptian & Greek Arch; ARCH 411, Ancient Roman Architecture; ARCH 412, Medieval Architecture; ARCH 413, Renaissance Architecture; ARCH 414, Baroque & Rococo Arch; ARCH 415, Neoclass & Nineteen Cent Arch; ARCH 416, Modern American Architecture; ARCH 417, Twentieth-Century Architecture; ARCH 418, Hist of the Urban Environment	9	ARCH 222, 40X, or 41X	Architectural History (select one): ARCH 222, Islamic Gardens and Architecture; ARCH 402, Intro to Hist of Arch Theory; ARCH 403, Spec Topics in Arch History; ARCH 407, Rome: The Eternal City; ARCH 409, Special Topics in Arch History (for students in Barcelona study abroad program only); ARCH 410, Ancient Egyptian & Greek Arch; ARCH 411, Ancient Roman Architecture; ARCH 412, Medieval Architecture; ARCH 413, Renaissance Architecture; ARCH 414, Baroque & Rococo Arch; ARCH 415, Neoclass & Nineteen Cent Arch; ARCH 416, Modern American Architecture; ARCH 417, Twentieth-Century Architecture; ARCH 418, Hist of the Urban Environment	3
			ARCH 433	Design of Steel and Reinforced Concrete Structures	4
			ARCH 434	Environmental Control Systems I	5
			ARCH 435	Structural Systems and Construction Methods	4
ARCH 451	Theory Design Steel Timber	4			
ARCH 452	Theory of Reinforced Concrete	4			
ARCH 475	Arch Design Development	6	ARCH 473	Architectural Design and Performance	6
			ARCH 474	Architectural Design and Making	6
UP 101	Introduction to City Planning	3	UP 101	Introduction to City Planning	3
Core Credit Hours		74	Core Credit Hours		69
	General Education Requirements	24		General Education Requirements	24
	General Education Requirments/Electives	9		General Education Requirments/Electives	9
	Electives	18		Electives	16
	College Requirement	2		College Requirement	2
Total Credit Hours		127	Total Credit Hours		120

Appendix B

Letter of Acknowledgment from the College of Fine and Applied Arts
Regarding Financial Arrangements for Proposed Curriculum Revision

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

College of Fine and Applied Arts

Office of the Dean
100 Architecture Building
608 East Lorado Taft Drive
Champaign, Illinois 61820



5 April 2016

Senate Educational Policy Committee
University of Illinois
608 South Wright Street
Urbana, IL 61801

Dear Committee:

The College of Fine and Applied Arts acknowledges the School of Architecture's proposal to revise the Bachelor of Science in Architectural Studies (BSAS).

No additional external resources will be required by the School of Architecture to deliver this revised curriculum. Revenue generated through the campus budget model will be credited to the School of Architecture consistent with FAA's budgeting procedures.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kathleen Harleman', written in a cursive style.

Kathleen Harleman
Acting Dean

telephone 217.333.1660 • fax 217.244.8381

APPENDIX C - RESOURCE ANALYSIS

BACHELOR OF SCIENCE IN ARCHITECTURAL STUDIES (BSAS) - CORE COURSES								
Current Number	Current Title	2015-2016 Faculty Assignments	2015-2016 TA Assignments	Proposed Number	Proposed Title	Estimated 2017-2018 Faculty Assignments (Minimum)	Estimated 2017-2018 Faculty Assignments (Maximum)	Estimated 2017-2018 TA Assignments
ARCH 101	Introduction to Architecture	1	1					
				ARCH 171	Concepts and Theories of Architectural Design	1	2	4
ARCH 210	Intro to the Hist of Arch	1	4	ARCH 210	Introduction to the History of Architecture	1	1	4
ARCH 231	Anatomy of Buildings	1	6	ARCH 231	Anatomy of Buildings	1	1	6
ARCH 233	Construction of Buildings	1	6					
				ARCH 232	Structural Fundamentals	1	1	5
ARCH 271	Graphics for Architects	2	8	ARCH 172	Drawing and Modeling	1	2	4
				ARCH 273	Representation	1	2	4
ARCH 272	Strategies of Arch Design	2	8	ARCH 274	Strategies of Architectural Design	1	2	4
				ARCH 321	Environment, Architecture, and Global Health	1	1	3
ARCH 341	Environment Tech HVAC	2	6					
ARCH 342	Environment Tech Ltg Acoust	2	6					
ARCH 351	Statics Dynamics	1	4					
ARCH 352	Mech of Mat Design Appl	1	4					
ARCH 373	Arch Design and the Landscape	5	1	ARCH 371	Architecture and Urbanism	6	6	0
ARCH 374	Arch Design and the City	5	1	ARCH 372	Design and Human Experience	6	6	0
ARCH 222, 40X, or 41X	Architectural History (select three): ARCH 222, ARCH 402, ARCH 403, ARCH 407, ARCH 409 (for students in Barcelona study abroad program only), ARCH 410, ARCH 411, ARCH 412, ARCH 413, ARCH 414, ARCH 415, ARCH 416, ARCH 417, ARCH 418	6	7	ARCH 222, 40X, or 41X	Architectural History (select one): ARCH 222, ARCH 402, ARCH 403, ARCH 407, ARCH 409 (for students in Barcelona study abroad program only), ARCH 410, ARCH 411, ARCH 412, ARCH 413, ARCH 414, ARCH 415, ARCH 416, ARCH 417, ARCH 418	2	3	3
				ARCH 433	Design of Steel and Reinforced Concrete Structures	1	1	5
				ARCH 434	Environmental Control Systems I	1	1	5
				ARCH 435	Structural Systems and Construction Methods	1	2	5
ARCH 451	Theory Design Steel Timber	1	3					
ARCH 452	Theory of Reinforced Concrete	1	3					
ARCH 475	Arch Design Development	6	1	ARCH 473	Architectural Design and Performance	6	6	0
				ARCH 474	Architectural Design and Making	6	6	0

MASTER OF ARCHITECTURE (M.Arch) - CORE COURSES								
ARCH 501	Architectural Practice	1	1	ARCH 501	Architectural Practice	1	1	1
ARCH 502	Structural Planning	1	2					
ARCH 5XX	[Professional Issues Elective]	11	0					
				ARCH 517	Architectural History 1850 to the Present	1	1	3
				ARCH 536	Planning and Design of Structural Systems	2	2	4
				ARCH 537	Environmental Control Systems II	2	2	4
				ARCH 538	Integrative Design of Buildings	2	2	0
ARCH 571	Design:Detail & Architectonics	4	0	ARCH 571	Design: Detail and Architectonics	5	5	0
ARCH 572	Design: Behavior & Environment	4	0	ARCH 572	Design: Behavior and Environment	5	5	0
ARCH 573	Design:Technology &Performance	8	0	ARCH 573	Design: Technology and Performance	5	5	0
ARCH 574	Design:Arch/Urban&Preservation	7	0	ARCH 574	Design: Architecture and Urban Design	5	5	0
				ARCH 575	Integrative Architecture Design Studio	6	6	0
ARCH 577	Theory of Architecture	1	2	ARCH 577	Theories of Architecture	1	1	3
		75	74			72	78	67

Appendix D

Comparison of Current and Proposed Statements for the Programs of Study Catalog

- Current statement for Bachelor of Science in Architectural Studies
- Proposed statement for Bachelor of Science in Architectural Studies
- Comparison of current and proposed statements for Bachelor of Science in Architectural Studies

For the Degree of Bachelor of Science in Architectural Studies - CURRENT

In this curriculum, normal progress is imperative. A student failing to complete any required course more than one semester later than the time designated in the curriculum is prohibited from progressive registration in architectural courses until the deficiency is corrected. To continue at the sophomore level and beyond, a student must have a cumulative grade point average of 2.00 (A = 4.0) for all University course work attempted. For the Bachelor of Science in Architectural Studies degree, a total of 127 semester hours are required.

First Year

First Semester

ARCH 101	Introduction to Architecture	3
MATH 220 or 221	Calculus	5-4
General education ¹		6-7
FAA 101	Arts at Illinois	2
	Semester Hours	16

Second Semester

MATH 231 or PHYS 101	Calculus II	3-5
Composition I ²		4
ARCH 210	Intro to the Hist of Arch	3
General education ¹		6
	Semester Hours	16

Second Year

First Semester

ARCH 271	Graphics for Architects	4
ARCH 231	Anatomy of Buildings	4
UP 101 (or approved urban studies substitute) ⁵	Introduction to City Planning	3
General Education or Electives ^{1,3}		4
	Semester Hours	16

Second Semester

ARCH 272	Strategies of Arch Design	4
ARCH 233	Construction of Buildings	4
Architectural History ⁴		3
General Education or Electives ^{1,3}		5
	Semester Hours	16

Third Year

First Semester

ARCH 341	Environment Tech HVAC	4
ARCH 373	Arch Design and the Landscape	5
Architectural History ⁴		3
ARCH 351	Statics Dynamics	4
	Semester Hours	16

Second Semester

ARCH 342	Environment Tech Ltg Acoust	4
ARCH 352	Mech of Mat Design Appl	4
ARCH 374	Arch Design and the City	5
Architectural History ⁴		3
	Semester Hours	16

Fourth Year

First Semester

ARCH 451	Theory Design Steel Timber	4
ARCH 475	Arch Design Development	6
Electives ³		6
	Semester Hours	16

Second Semester

ARCH 452	Theory of Reinforced Concrete	4
Electives ³		12
	Semester Hours	16

Total Hours: 127

1 See current University of Illinois General Education requirements.

The General Education quantitative reasoning requirement I is satisfied by the required MATH 220 or MATH 221 course; the quantitative reasoning II requirement is satisfied by the MATH 231 or PHYS 101 course. Students considering a concentration in Building Structures or Structural Engineering should take MATH 231. The Advanced Composition requirement may be fulfilled by either a separate, approved Advanced Composition course or by an Advanced Composition course which also satisfies one of the general education distribution list requirements. If by the latter, electives would be taken to make up the credit deficiency. General Education foreign language requirement 0-12 hours: Students entering the University of Illinois as freshmen in fall 2000 or later need to complete the foreign language requirement in order to graduate. To satisfy this requirement, students must complete a third semester level college foreign language course. This requirement may also be satisfied

by three years of the same foreign language in high school. Students entering the University of Illinois without three years of the same foreign language in high school must take a foreign language placement test to determine the courses in which to enroll.

- 2 The Composition I requirement may be fulfilled by any of the following courses or course sequences (placement is determined by examination): ESL 111 and ESL 112; RHET 100, RHET 101, and RHET 102; or RHET 105; or CMN 111 and CMN 112.
- 3 For information about electives, see the Undergraduate Handbook at the FAA website. A maximum of nine hours may be taken as professional electives.
- 4 Architectural history: All students in the undergraduate program in architecture must fulfill the architectural history requirement: three courses in addition to ARCH 210. Select from: ARCH 222, ARCH 402, ARCH 403, ARCH 407, ARCH 409, Section B (Barcelona only), ARCH 410, ARCH 411, ARCH 412, ARCH 413, ARCH 414, ARCH 415, ARCH 416, ARCH 417, or ARCH 418.
- 5 The UP 101 requirement can be fulfilled by substituting one of the following approved courses: ARCH 418; GEOG 204, GEOG 210, and GEOG 483.

For the Degree of Bachelor of Science in Architectural Studies - PROPOSED

The Bachelor of Science in Architectural Studies (BSAS) lays the foundation for design in two and three dimensions. Design education is complemented by course work in history, structures, and technology. Students who earn the BSAS graduate ready to enter an accredited, two-year Master of Architecture program such as the one offered at Illinois. Some students who earn the BSAS opt to pursue other graduate degrees or careers in areas allied with architecture.

In the BSAS curriculum, normal progress is imperative. A student failing to complete any required course more than one semester later than the time designated in the curriculum is prohibited from progressive registration in architectural courses until the deficiency is corrected. To continue at the sophomore level and beyond, a student must have a cumulative grade point average of 2.00 (A = 4.0) for all University course work attempted. For the Bachelor of Science in Architectural Studies degree, a total of 120 semester hours are required.

First Year

First Semester

ARCH 171	Concepts and Theories of Architectural Design	3
MATH 220 or 221	Calculus	5-4
General Education ¹		6-7
FAA 101	Arts at Illinois	2
	Semester Hours	16

Second Semester

ARCH 172	Drawing and Modeling	3
ARCH 210	Introduction to the History of Architecture	3
MATH 231 or PHYS 101	Calculus II	3-5
Composition I ²		4
General Education ¹		3
	Semester Hours	16

Second Year

First Semester

ARCH 273	Representation	3
ARCH 231	Anatomy of Buildings	4
UP 101 (or approved urban studies substitute) ⁵	Introduction to City Planning	3
General Education ¹		3
General Education or Electives ^{1,3}		3
	Semester Hours	16

Second Semester

ARCH 274	Strategies of Architectural Design	3
ARCH 232	Structural Fundamentals	4
General Education or Electives ^{1,3}		6
Electives ³		3
	Semester Hours	16

Third Year

First Semester

ARCH 371	Design and Urbanism	6
ARCH 321	Environment, Architecture, and Global Health	3
ARCH 433	Design of Steel and Reinforced Concrete Structures	4
Electives ³		3
Semester Hours		16

Second Semester

ARCH 372	Design and Human Experience	6
ARCH 342	Environmental Controls Systems I	5
ARCH 352	Structural Systems and Construction Methods	4
Semester Hours		15

Fourth Year

First Semester

ARCH 473	Design and Performance	6
Architectural History ⁴		3
Electives ³		4
Semester Hours		13

Second Semester

ARCH 474	Design and Making	6
Electives ³		6
Semester Hours		12

Total Hours: 120

1 See current University of Illinois [General Education requirements](#).

The General Education quantitative reasoning requirement I is satisfied by the required [MATH 220](#) or [MATH 221](#) course; the quantitative reasoning II requirement is satisfied by the [MATH 231](#) or [PHYS 101](#) course. Students considering a concentration in Building Structures or Structural Engineering should take [MATH 231](#). The Advanced Composition requirement may be fulfilled by either a separate, approved Advanced Composition course or by an Advanced Composition course which also satisfies one of the general education distribution list requirements. If by the latter, electives would be taken to make up the credit deficiency.

General Education foreign language requirement 0-12 hours: Students entering the University of Illinois as freshmen in fall 2000 or later need to complete the foreign language requirement in order to graduate. To satisfy this requirement, students must complete a third semester level college foreign language course. This requirement may also be satisfied by three years of the same foreign language in high school. Students entering the University of Illinois without three years of the same foreign language in high school must take a foreign language placement test to determine the courses in which to enroll.

- 2 The Composition I requirement may be fulfilled by any of the following courses or course sequences (placement is determined by examination): ESL 111 and ESL 112; RHET 100, RHET 101, and RHET 102; or RHET 105; or CMN 111 and CMN 112.
- 3 For information about electives, see the Undergraduate Handbook at the FAA website. A maximum of nine hours may be taken as professional electives.
- 4 Architectural history: All students in the undergraduate program in architecture must fulfill the architectural history requirement: one course in addition to ARCH 210. Select from: ARCH 222, ARCH 402, ARCH 403, ARCH 407, ARCH 409, Section B (Barcelona only), ARCH 410, ARCH 411, ARCH 412, ARCH 413, ARCH 414, ARCH 415, ARCH 416, ARCH 417, or ARCH 418.
- 5 The UP 101 requirement can be fulfilled by substituting one of the following approved courses: ARCH 418; GEOG 204, GEOG 210, and GEOG 483.

For the Degree of Bachelor of Science in Architectural Studies - COMPARISON

The Bachelor of Science in Architectural Studies (BSAS) lays the foundation for design in two and three dimensions. Design education is complemented by course work in history, structures, and technology. Students who earn the BSAS graduate ready to enter an accredited, two-year Master of Architecture program such as the one offered at Illinois. Some students who earn the BSAS opt to pursue other graduate degrees or careers in areas allied with architecture.

In ~~this~~the BSAS curriculum, normal progress is imperative. A student failing to complete any required course more than one semester later than the time designated in the curriculum is prohibited from progressive registration in architectural courses until the deficiency is corrected. To continue at the sophomore level and beyond, a student must have a cumulative grade point average of 2.00 (A = 4.0) for all University course work attempted. For the Bachelor of Science in Architectural Studies degree, a total of ~~127~~120 semester hours are required.

First Year

First Semester

ARCH 101	Introduction to Architecture	171	Concepts and Theories of Architectural Design	3
MATH 220 or 221	Calculus			5-4
General education ¹	Education ¹			6-7
FAA 101	Arts at Illinois			2
	Semester Hours			16

Second Semester

ARCH 172	Drawing and Modeling			3
ARCH 210	Introduction to the History of Architecture			3
MATH 231 or PHYS 101	Calculus II			3-5
Composition I ²				4
ARCH 210	Intro to the Hist of Arch			3
General education ¹				6 Education ¹
				3
	Semester Hours			16

Second Year

First Semester

ARCH 271	Graphics for Architects			4 273
	Representation			3
ARCH 231	Anatomy of Buildings			4
UP 101 (or approved urban studies substitute) ⁵			Introduction to City Planning	
	3			

General Education or Electives ^{1,3}	4	Education ¹	3
General Education or Electives ^{1,3}			3
Semester Hours			16

Second Semester

ARCH 272/274	Strategies of Arch Architectural Design		4
ARCH 233	Construction of Buildings	232	Structural Fundamentals
			4
Architectural History ⁴			3
General Education or Electives ^{1,3}			5
Electives ³			3
Semester Hours			16

Third Year

First Semester

ARCH 341/371	Design and Urbanism		6
ARCH 321	Environment Tech HVAC	4	Architecture, and Global Health
			3
ARCH 373	Arch 433		Design of Steel and the Landscape
		5	Reinforced Concrete Structures
			4
Architectural History ⁴	Electives ³		3
ARCH 351	Statics Dynamics		4
Semester Hours			16

Second Semester

ARCH 372	Design and Human Experience		6
ARCH 342	Environment Tech Ltg Acoust	4	Environmental Controls
	Systems I		5
ARCH 352	Mech of Mat Design Appl		Structural Systems and
	Construction Methods		4
ARCH 374	Arch Design and the City		5
Architectural History ⁴			3
Semester Hours			16

Fourth Year

First Semester

ARCH 451	Theory 473		Design Steel Timber
			4
ARCH 475	Arch Design Development and Performance		6
Architectural History ⁴			3
Electives ³			6

	Semester Hours	<u>1613</u>
Second Semester		
ARCH 452	Theory of Reinforced Concrete	4
ARCH 474	Design and Making	6
Electives ³		<u>126</u>
	Semester Hours	<u>1612</u>
	Total Hours:	<u>127120</u>

- 1 ~~University of Illinois General Education requirements.1~~ ~~See current~~
See current
University of Illinois General Education requirements.

The General Education quantitative reasoning requirement I is satisfied by the required MATH 220 or MATH 221 course; the quantitative reasoning II requirement is satisfied by the MATH 231 or PHYS 101 course. Students considering a concentration in Building Structures or Structural Engineering should take MATH 231. The Advanced Composition requirement may be fulfilled by either a separate, approved Advanced Composition course or by an Advanced Composition course which also satisfies one of the general education distribution list requirements. If by the latter, electives would be taken to make up the credit deficiency. General Education foreign language requirement 0-12 hours: Students entering the University of Illinois as freshmen in fall 2000 or later need to complete the foreign language requirement in order to graduate. To satisfy this requirement, students must complete a third semester level college foreign language course. This requirement may also be satisfied by three years of the same foreign language in high school. Students entering the University of Illinois without three years of the same foreign language in high school must take a foreign language placement test to determine the courses in which to enroll.

- 2 The Composition I requirement may be fulfilled by any of the following courses or course sequences (placement is determined by examination): ESL 111 and ESL 112; RHET 100, RHET 101, and RHET 102; or RHET 105; or CMN 111 and CMN 112.
- 3 For information about electives, see the Undergraduate Handbook at the ~~FAA website: FAA website~~. A maximum of nine hours may be taken as professional electives.
- 4 Architectural history: All students in the undergraduate program in architecture must fulfill the architectural history requirement: ~~three courses~~ one course in addition to ARCH 210. Select from: ARCH 222, ARCH 402, ARCH 403, ARCH 407, ARCH 409, Section B (Barcelona only), ARCH 410, ARCH 411, ARCH 412, ARCH 413, ARCH 414, ARCH 415, ARCH 416, ARCH 417, or ARCH 418.
- 5 The UP 101 requirement can be fulfilled by substituting one of the following approved courses: ARCH 418; GEOG 204, GEOG 210, and GEOG 483.

APPENDIX E - SUMMARY OF CATALOG INFORMATION FOR CORE COURSES IN PROPOSED REVISIONS OF BSAS AND M.ARCH CURRICULA

Course	UG Course Hours	G Course Hours	Class Schedule Information	Prerequisites	Concurrent Enrollment Statement
ARCH 171	3		2 75-minute lectures per week	None	None
ARCH 172	3		2 75-minute lectures per week	ARCH 171 or consent of instructor	ARCH 231 or consent of instructor
ARCH 231	4		2 150-minute meetings (1 class, 1 lab) per week	None	None
ARCH 232	4		3 75-minute meetings (2 lectures and 1 lab) per week	MATH 220 or MATH 221, and MATH 231 or PHYS 101	None
ARCH 273	3		2 75-minute lectures per week	ARCH 272 or consent of instructor	None
ARCH 274	3		2 75-minute lectures per week	ARCH 273 or consent of instructor	None
ARCH 321	3		2 75-minute meetings (1 75-minute active-learning workshop and 1 75-minute online lecture) per week	None	None
ARCH 371	6		3 230-minute studio classes per week	ARCH 272 or consent of instructor	None
ARCH 372	6		3 230-minute studio classes per week	ARCH 321 or consent of instructor	None
ARCH 433	4	4	3 75-minute meetings (2 lectures and 1 lab) per week	ARCH 232	None
ARCH 434	5	5	4 75-minute meetings (2 lectures and 2 labs) per week	None	ARCH 374 or consent of instructor
ARCH 435	4	4	3 75-minute meetings (2 lectures and 1 lab) per week	ARCH 231 and ARCH 232	None
ARCH 473	6	6	3 230-minute studio classes per week	ARCH 371 and ARCH 372	None
ARCH 474	6	6	3 230-minute or 2 345-minute studio classes per week	ARCH 473	None
ARCH 517		3	3 50-minute meetings (2 lectures and 1 discussion section) per week	None	None
ARCH 536		4	3 75-minute meetings (2 lectures and 1 lab) per week	ARCH 232 and ARCH 433 or consent of instructor	None
ARCH 537		4	3 75-minute meetings (2 lectures and 1 lab) per week	ARCH 434 or consent of instructor	None
ARCH 538		4	3 75-minute meetings (2 lectures and 1 lab) per week	ARCH 536 and ARCH 537	None
ARCH 571		6	3 230-minute studio classes per week	Graduate standing or consent of instructor	None
ARCH 572		6	3 230-minute studio classes per week	Graduate standing or consent of instructor	None
ARCH 573		6	3 230-minute studio classes per week	Graduate standing or consent of instructor	None

ARCH 574		6	3 230-minute studio classes per week	None	ARCH 536 or consent of instructor
ARCH 575		6	3 230-minute studio classes per week	ARCH 536 and ARCH 537	None
ARCH 577		4	4 50-minute meetings (2 lectures and 2 discussion sections) per week	ARCH 517 or consent of instructor	None

APPENDIX F - ACCOUNTING OF NEW ARCH-RUBRIC COURSE NUMBERS TO BE ADOPTED IN PROPOSED BSAS AND M.ARCH CURRICULA

New Course	New Course Title	Course number was last used in...	...when it was associated with this Course ID...	...which Course ID subsequently has been associated with this course...	...as recently as...
ARCH 171	Concepts and Theories of Architectural Design	FA06	000649	ARCH 271	FA15
ARCH 172	Drawing and Modeling	SP04	000650	ARCH 272	SP16
ARCH 232	Structural Fundamentals	SP06	000656	ARCH 233	SP16
ARCH 273	Representation	Never			
ARCH 274	Strategies of Architectural Design	Never			
ARCH 321	Environment, Architecture, and Global Health	Never			
ARCH 371	Architecture and Urbanism	S204	000691	ARCH 475	FA15
ARCH 372	Design and Human Experience	SP04	000692	ARCH 476	SP16
ARCH 433	Design of Steel and Reinforced Concrete Structures	Never			
ARCH 434	Environmental Control Systems I	FA03	000708	ARCH 534	FA06
ARCH 435	Structural Systems and Construction Methods	Never			
ARCH 473	Architectural Design and Performance	Never			
ARCH 474	Architectural Design and Making	Never			
ARCH 517	Architectural History 1850 to the Present	SP08	000702		
ARCH 536	Planning and Design of Structural Systems	Never			
ARCH 537	Environmental Control Systems II	Never			
ARCH 538	Integrative Design of Buildings	SP05	000710		
ARCH 575	Integrative Architecture Design Studio	Never			

APPENDIX G - DISPOSITION OF CURRENT BSAS AND M.ARCH CORE COURSES AFTER FULL IMPLEMENTATION OF PROPOSED REVISION OF CURRICULA

Current Number	Current Title	Current Hours	Proposed Action After Full Implementation of Proposed BSAS and M.Arch Curricula	Current or Proposed Number	Current or Proposed Title	Current or Proposed Hours
ARCH 101	Introduction to Architecture	3	Revise	ARCH 171	Concepts and Theories of Architectural Design	3
ARCH 210	Intro to the Hist of Arch	3	Retain	ARCH 210	Introduction to the History of Architecture	3
ARCH 222	Islamic Gardens and Architecture	3	Retain	ARCH 222	Islamic Gardens and Architecture	3
ARCH 231	Anatomy of Buildings	4	Retain	ARCH 231	Anatomy of Buildings	4
			Add	ARCH 232	Structural Fundamentals	4
ARCH 233	Construction of Buildings	4	Delete			
ARCH 271	Graphics for Architects	4	Revise	ARCH 172	Drawing and Modeling	3
			Add	ARCH 273	Representation	3
ARCH 272	Strategies of Arch Design	4	Revise	ARCH 274	Strategies of Architectural Design	3
			Add	ARCH 321	Environment, Architecture, and Global Health	3
ARCH 341	Environment Tech HVAC	4	Delete			
ARCH 342	Environment Tech Ltg Acoust	4	Delete			
ARCH 351	Statics Dynamics	4	Delete			
ARCH 352	Mech of Mat Design Appl	4	Delete			
ARCH 373	Arch Design and the Landscape	5	Revise	ARCH 372	Design and Human Experience	6
ARCH 374	Arch Design and the City	5	Revise	ARCH 371	Architecture and Urbanism	6
ARCH 402	Intro to Hist of Arch Theory	3	Retain	ARCH 402	Intro to Hist of Arch Theory	3
ARCH 403	Spec Topics in Arch History	3	Retain	ARCH 403	Spec Topics in Arch History	3
ARCH 407	Rome: The Eternal City	3	Retain	ARCH 407	Rome: The Eternal City	3
ARCH 409	Special Topics in Arch History (Barcelona)	3	Retain	ARCH 409	Special Topics in Arch History (Barcelona)	3
ARCH 410	Ancient Egyptian & Greek Arch	3	Retain	ARCH 410	Ancient Egyptian & Greek Arch	3
ARCH 411	Ancient Roman Architecture	3	Retain	ARCH 411	Ancient Roman Architecture	3
ARCH 412	Medieval Architecture	3	Retain	ARCH 412	Medieval Architecture	3
ARCH 413	Renaissance Architecture	3	Retain	ARCH 413	Renaissance Architecture	3
ARCH 414	Baroque & Rococo Arch	3	Retain	ARCH 414	Baroque & Rococo Arch	3
ARCH 415	Neoclass & Nineteen Cent Arch	3	Retain	ARCH 415	Neoclass & Nineteen Cent Arch	3
ARCH 416	Modern American Architecture	3	Retain	ARCH 416	Modern American Architecture	3
ARCH 417	Twentieth-Century Architecture	3	Retain	ARCH 417	Twentieth-Century Architecture	3
ARCH 418	Hist of the Urban Environment	3	Retain	ARCH 418	Hist of the Urban Environment	3

			Add	ARCH 433	Design of Steel and Reinforced Concrete Structures	4
			Add	ARCH 434	Environmental Control Systems I	5
			Add	ARCH 435	Structural Systems and Construction Methods	4
ARCH 451	Theory Design Steel Timber	4	Retain as Elective	ARCH 451	Theory Design Steel Timber	
ARCH 452	Theory of Reinforced Concrete	4	Retain as Elective	ARCH 452	Theory of Reinforced Concrete	
ARCH 475	Arch Design Development	6	Revise	ARCH 473	Architectural Design and Performance	6
			Add	ARCH 474	Architectural Design and Making	6
ARCH 501	Architectural Practice	3	Retain	ARCH 501	Architectural Practice	3
ARCH 502	Structural Planning	3	Delete			
ARCH 5XX	[Professional Issues Elective]	3	Retain			
			Add	ARCH 517	Architectural History 1850 to the Present	3
			Add	ARCH 536	Planning and Design of Structural Systems	4
			Add	ARCH 537	Environmental Control Systems II	4
			Add	ARCH 538	Integrative Design of Buildings	4
ARCH 571	Design: Detail & Architectonics	6	Retain	ARCH 571	Design: Detail and Architectonics	6
ARCH 572	Design: Behavior & Environment	6	Retain	ARCH 572	Design: Behavior and Environment	6
ARCH 573	Design: Technology & Performance	6	Retain	ARCH 573	Design: Technology and Performance	6
ARCH 574	Design: Arch/Urban & Preservation	6	Retain	ARCH 574	Design: Architecture and Urban Design	6
			Add	ARCH 575	Integrative Architecture Design Studio	6
ARCH 577	Theory of Architecture	3	Retain	ARCH 577	Theories of Architecture	4

Note: ARCH-rubric courses not listed here that appear in the current Courses of Instruction document are to be retained.

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

University Library
Office of Dean of Libraries
and University Librarian
230 Main Library, MC-522
1408 West Gregory Drive
Urbana, IL 61801



March 28, 2016

Linda Robbennolt
Associate Dean, Academic Programs
College of Fine and Applied Arts
408 E Peabody Dr.
M/C 590

Dear Prof. Robbennolt:

Thank you for sending over the proposed curricular changes in the College of Fine and Applied Arts that you transmitted on March 24, 2016. Those proposals included:

- Proposal to Revise the Undergraduate Music Minor in the School of Music, College of Fine and Applied Arts
- Proposal to Establish a New Degree, Bachelor of Science in Computer Science and Music (CS+Music), in the School of Music, College of Fine and Applied Arts
- Proposal to Revise the Bachelor of Science in Architectural Studies (BSAS) in the School of Architecture, College of Fine and Applied Arts.
- Proposal to Revise the Master of Architecture (M.Arch) in the School of Architecture, College of Fine and Applied Arts.

Based upon the documents received, it is our belief that there will be no significant impact on collection development, instruction, or other operations.

If additional services or materials are required as the program develops, we will be happy to discuss those needs as they emerge.

Sincerely,

A handwritten signature in black ink, appearing to read 'John P. Wilkin'.

John P. Wilkin
Junita J. and Robert E. Simpson
Dean of Libraries and University Librarian

e-c: Kirstin Dougan
Melanie Emerson
Thomas Teper
John Wagstaff

Name of existing Illinois (UIUC) degree: _____

Name of non-Illinois partnering institution: _____

Location of non-Illinois partnering institution:

State of Illinois US State: _____ Foreign country: _____

- B. Proposal to create a new academic unit (college, school, department, program or other academic unit):

Name of proposed new unit: _____

- C. Proposal to rename an existing academic unit (college, school, department, or other academic unit):

Current name of unit: _____

Proposed new name of unit: _____

- D. Proposal to reorganize existing units (colleges, schools, departments, or program):

1. Proposal to change the status of an existing and approved unit (e.g. change from a program to department)

Name of current unit including status: _____

2. Proposal to transfer an existing unit:

Current unit's name and home: _____

Proposed new home for the unit: _____

3. Proposal to merge two or more existing units (e.g., merge department A with department B):

Name and college of unit one to be merged: _____

Name and college of unit two to be merged: _____

Proposed name and college of new (merged) unit: _____

4. Proposal to terminate an existing unit:

Current unit's name and status: _____

- E. **Other educational policy proposals** (e.g., academic calendar, grading policies, etc.)

Nature of the proposal: _____

Revised 10/2012

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

EP.17.02

Office of the Provost and Vice Chancellor
for Academic Affairs

Swanlund Administration Building
601 East John Street
Champaign, IL 61820



August 18, 2016

Bettina Francis, Chair
Senate Committee on Educational Policy
Office of the Senate
228 English Building, MC-461

Dear Professor Francis:

Enclosed is a copy of a proposal from the College of Fine and Applied Arts to revise the Bachelor of Science in Architectural Studies. Originally submitted in spring, 2016 as EP.16.82, the College is resubmitting the same proposal since the Senate Educational Policy Committee was unable to complete a review in the spring.

Sincerely,

A handwritten signature in cursive script that reads "Kathryn A. Martensen".

Kathryn A. Martensen
Assistant Provost

Enclosures

c: L. Robbennolt
D. Poe
P. Mortensen

UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

EP.16.82

Office of the Provost and Vice Chancellor
for Academic Affairs

Swanlund Administration Building
601 East John Street
Champaign, IL 61820



April 13, 2016

Bettina Francis, Chair
Senate Committee on Educational Policy
Office of the Senate
228 English Building, MC-461

Dear Professor Francis:

Enclosed is a copy of a proposal from the College of Fine and Applied Arts to revise the Bachelor of Science in Architectural Studies.

Sincerely,

A handwritten signature in cursive script that reads 'Kathryn A. Martensen'.

Kathryn A. Martensen
Assistant Provost

Enclosures

c: L. Robbennolt
D. Poe
P. Mortensen