

College of Architecture and Urban Studies Myers-
Lawson School of Construction
Bachelor of Science
Major: Building Construction
For students entering under UG Catalog 2022-2023
131 credits required for degree

I. Pathways to General Education	45	credit hours
II. Degree Core Requirements	30	credit hours
III. Major Requirements	29	credit hours
IV. Track Requirements	27	credit hours
Total	131	credit hours

I. Pathways to General Education (45 credit hours)

1 Concept 1: Discourse

COMM	1015	Communication Skills (1f) or ENGL 1105 First Year Writing	3	_____
COMM	1016	Communication Skills (1f) Pre: 1015 or ENGL 1106 First Year Writing Pre: 1105	3	_____
ENGL	3764	Technical Writing (1a) Pre: 1106 or 1204 or COMM 1016, Jr Standing	3	_____

2 Concept 2: Critical Thinking in the Humanities

		Choose any Pathways 2 elective	3	_____
		Choose a course that double counts with Pathways 2 and 7 ¹	3	_____

3 Concept 3: Reasoning in the Social Sciences

ECON	2005	Principles of Econ or AAEC 1005 Econ Food Fiber Systems	3	_____
ECON	2006	Principles of Econ Pre: 2005 or AAEC 1006 Econ Food Fiber Systems	3	_____

4 Concept 4: Reasoning in the Natural Sciences

PHYS	2205 ⁴	General Physics Pre: MATH 1016 or MATH 1016H or MATH 1025 or MATH 2015 or MATH 1026 or MATH 1205 or MATH 1205H or MATH 1525 or MATH 1535 or MATH 1225 or MATH 1225H	3	_____
and PHYS	2215 ⁴	General Physics Lab Co: 2205	1	_____
GEOS	1004	Intro to Earth Science	3	_____
and GEOS	1104	Intro to Earth Science Lab	1	_____

5 Concept 5: Quantitative and Computational Thinking

MATH	1225	Calculus of a Single Variable (5f)	4	_____
ACIS	1004	Accounting Foundations (5f)	3	_____
BC	2214	Why Buildings Stand Up (5a) Pre: MATH 1225 or 1025	3	_____

6 Concept 6: Critique and Practice in Design and the Arts

		Choose any 6a Elective	3	_____
		Choose any 6d Elective	3	_____

7 Concept 7: Critical Analysis of Identity and Equity in the US¹

¹ Students are encouraged to pursue a course that satisfies both Pathways 2 and 7 so that they do not exceed 131 total credit hours. Consult the course catalog and your academic advisor for guidance on appropriate courses that double count in these areas.

II. Degree Core Requirements (30 credit hours)

In accordance with SCHEV guidelines, courses used to fulfill the SCHEV approved degree core may not also be used to meet Pathways for Building Construction or major requirements.

BC	1214	Introduction to Building Construction I	3	_____
BC	1224	Introduction to Building Construction II + Lab Pre: 1214 (C-)	3	_____
BC	2014	Construction Principles I Pre: 1224	3	_____
BC	2024	Construction Principles II Pre: 1214, 1224, 2014 or 4264 Co: 2064	3	_____
BC	2044	Buildings and Materials Pre: 2214 or CEM 2104 or CNST 2104	3	_____
BC	2064	Integrated Construction Series I Pre: (2014, 2114) or 4264 or CEM 2104	3	_____
BC	2114	IT in Design and Construction Pre: 1224 or CNST 2104 or CEM 2104 Co: 2014	3	_____
BC	3064	Integrated Construction II Pre: (2064, 3114, PHYS 2205/2215) or (3114, CEM 2104, PHYS 2205/2215)	3	_____
BC	3114	Building Systems Technology Pre: (2024 or CNST 2104 or CEM 2104), PHYS 2205, 2215	3	_____
BC	4064	Integrated Construction III Pre: 3064	3	_____

III. Major Requirements (29 credit hours)

BC	2104	Building Effective Construction Teams Pre: 1224 or 4264, (COMM 1016 or ENGL 1106)	3	_____
BC	2134	Construction Data Analysis Pre: MATH 1114	2	_____
BC	3134	(CEM 3134) Temporary Structures Pre: (2044, 2024) or CEE 3684	3	_____
BC	4164	Process Planning and Design Pre: 3114, 3064	3	_____
BC	4434	Construction Practice I Pre: (2044,3064) or CEM 2104. Co: 4064	3	_____
BC	4444	Construction Practice II Pre: 4434	4	_____
CEM	3084	Construction Economy Pre: CEM 2104 or BC 2024	3	_____
FIN	3054	Legal and Ethical Environment of Business Pre: Junior Standing	3	_____
MATH	1114	Elementary Linear Algebra	2	_____
MGT	3304	Management Theory & Leadership Practice Pre: Sophomore Standing	3	_____

IV. Choose 1 of the 4 Tracks below to complete degree requirements (27 credit hours)

Emergent Technologies for Construction, Housing and Development (ET)

BC	2354	Residential Construction Technologies Pre: 2014	3	_____
BC	4324	Innovation in Residential Construction Pre: 2024, 3114	3	_____
BC	4374	Residential Housing & Land Development Pre: 3064. Co: 4064	3	_____
		Business & Management Elective ²	3	_____
		Business & Management Elective ²	3	_____
		Cognate Elective ³	3	_____
		Cognate Elective ³	3	_____
		Cognate Elective ³	3	_____
		Free Elective	3	_____

Sustainable Building Performance (SBP)

BC	3014	Building Physics & Environmental Systems Pre: PHYS 2205, 2215	3	_____
BC	4314	Building Performance & Energy Management Pre: 3014	3	_____
BC	4334	Sustainable Building Performance Management Pre: 3064, 3014	3	_____

Business & Management Elective ²	3	_____
Business & Management Elective ²	3	_____
Cognate Elective ³	3	_____
Cognate Elective ³	3	_____
Cognate Elective ³	3	_____
Free Elective	3	_____

Information Systems in Built Environment (ISBE)

BC	4114	BIM in Design and Construction Pre: 2114, CS 1014	3	_____
BC	4124	Digital Construction & Manufacturing Pre: 2114	3	_____
BC	4364	Lifecycle BIM for Facility Management Pre: 2114, 3114	3	_____
CS	1014	Introduction to Computational Thinking	3	_____
		Business & Management Elective ²	3	_____
		Business & Management Elective ²	3	_____
		Cognate Elective ³	3	_____
		Cognate Elective ³	3	_____
		Cognate Elective ³	3	_____

Directive Elective (DE) Track

Students pursuing double majors or minors may use courses from their other major for directed electives to build their own track as long as the courses are not building construction major requirements. Students must have a plan of study signed by the Department Head or Assistant Director of Student Affairs comprised of courses to form a focused area of study for this track.

Business & Management Elective ²	3	_____
Business & Management Elective ²	3	_____
Department Approved Elective	3	_____
Department Approved Elective	3	_____
Department Approved Elective	3	_____
Department Approved Elective	3	_____
Department Approved Elective	3	_____
Department Approved Elective	3	_____
Department Approved Elective	3	_____

2Business and Management Electives (Choose 6 credits from the following.)

AAEC	3324	Environment & Sustainable Development Economics Pre: 1005 or 1006 or Econ 2005	3	_____
AAEC	3454	Small Business Mgt & Entrepreneurship Pre: AAEC 2434 or ACIS 2115 or MGT 3064	3	_____
ACIS	2116	Principles of Accounting Pre: 2115 (C-)	3	_____
ISE	4004	Theory of Organization	3	_____
MGT	2064	Foundations of Entrepreneurs	3	_____
MGT	2354	Teams, Leadership, & Business Pre: Sophomore Standing	3	_____
MGT	3064	Cornerstones Entrepreneurship Pre: MGT 2064 and completion of 45 credit hours and two Area	3	_____

MKTG	3104	Marketing Management Pre: Junior Standing	3	_____
MKTG	4734	Real Estate Marketing Pre: 3104 or 3104H, Junior Standing	3	_____
REAL	2004	Principles of Real Estate (UAP 2004)	3	_____

³ **Cognate Electives** - Students must have a cognate plan of study signed by their advisor, comprised of 9 credits to form a focused area of study.

PLEASE READ ALL NOTES CAREFULLY:

Policy on Satisfactory Progress Toward a Degree:

University Policy 91 outlines university-wide minimum criteria to determine if students are making satisfactory progress toward the completion of their degrees. The Department of Building Construction fully supports this policy. Specific expectations for satisfactory progress for BC majors are as follows:

- ⁴ Upon having attempted 72 credit hours (entering as freshman) or 90 credit hours (entering as transfer), a student must successfully complete BC 1224, 2064, 2114, 2214, MATH 1225, PHYS 2205/2215. Student who does not meet the requirements will be notified upon reaching 72 credit hours (or 90 credit hours for transfer students) that they must complete any missing courses before being allowed to continue into the Professional/Upper Level BC courses. (BC Professional/Upper Level courses are all 3000 and 4000 level BC courses.) Student will have two terms of enrollment to rectify any deficiencies. Failure to complete these pivotal courses within 2 semesters will result in student being required to transfer out of the major. This policy is strictly enforced.

GPA Statement: Graduation/GPA requirements to include: Each student must meet the minimum University-wide criteria as described in Policy 91 and summarized in the Undergraduate Catalog. In-major and overall GPA required to graduate is 2.0.

In-Major GPA: Consists of all courses under the BC designation.

All BC courses are not to be repeated more than three times, including late course withdrawals.

Foreign Language Requirement: Minimum requirement may be met in high school by completing 2 units of a single foreign or classical language. Students who do not satisfy the foreign language requirement in high school may do so by taking six credits of college-level foreign language (classical language or American Sign Language). These six credits do not count toward the total minimum hours required of the declared degree program.

Prerequisites for courses are listed in the Undergraduate Course Catalog. It is the responsibility of the student to make sure the prerequisites for each course have been met. Students who enroll in a course for which they clearly have not satisfied the prerequisites or equivalent may be dropped from the course. Deliberate false statements testifying to the satisfaction of prerequisites constitute a violation of the honor code.

Statement of Hidden Prerequisites: Pre-requisites for each course are listed after the course title. The letter grade notation, such as (C-) indicates the minimum grade students must earn in the pre-requisite course. There are no hidden pre-requisites in this program of study.