APPROVED COMMISSION ON UNDERGRADUATE STUDIES AND POLICIES

College of Architecture and Urban Studies

Myers-Lawson School of Construction

Bachelor of Science: Building Construction

For students graduating in calendar year 2022 and for student date of entry under UG Catalog 2020-2021

131 credits	required for	degree
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I. Pathways for Liberal Education	45 cr hrs		
II. Degree Core Requirement	30 cr hrs		
III. Major Requirements	30 cr hrs		
IV. Track Requirements	26 cr hrs		
	131 cr hrs		
I. Pathways to General Education (45 cr	edit hours)		
A. Discourse		E. Quantitative and Computational Thinking	
COMM 1015 Communication Skills	3	MATH 1225 ⁴ Calculus of a Single Variable (5F) (C-)	4
or ENGL 1105 First Year Writing		ACIS 1004 Accounting Foundations (5F)	3
COMM 1016 Communication Skills Pre: 1015	3	Choose any (5A) course	3
or ENGL 1106 First Year Writing Pres	1105		
ENGL 3764 Technical Writing Pre: Jr Standing	3	F. Critique and Practice in Design and the Arts	
B. Critical Thinking in the Humanities		Choose any 6A Elective	3
Choose any Pathways 2 elective	3	Choose any 6D Elective	3
Directed Pathways 2 course ¹	3	G. Critical Analysis of Identity and Equity in the US	
C. Reasoning in the Social Sciences		- Directed Pathways 7 course to be double	
ECON 2005 Principles of Econ OR	3	counted with the Pathways 2 course ¹	
AAEC 1005 Econ Food Fiber Systems		•	
ECON 2006 Principles of Econ Pre: 2005	3		
OR		 ¹ The following courses fulfill both Pathways 2 and 7 requirements. Please choose from: AFST 2204, AFST 	
AAEC 1006 Econ Food Fiber Systems		2275, AFST 2276, AFST 2644, APS 1704, APS 2434, ENG	δL
D. Reasoning in the Natural Sciences		2644, HD 1134, HIST 1115, HIST 1116, HIST 2104, HIST	
PHYS 2305 ⁴ Foundations of Physics I	4	2275, HIST 2276, HIST 3164, HUM 1704, RLCL 2124, RLCL 2204, SPAN 3564, WGS 2204	
Pre: MATH 1225		•	
GEOS 1004 Intro to Earth Science	3	_	
and GEOS 1104 Intro to Earth Science Lab	1		
GEOS 1004 Intro to Earth Science	3		

II. Degree Core Requirement (30 credit hours)

In accordance with State Council 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 ⁴	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 ⁴	Integrated Construction Series I Pre: (2014, 2114) or 4264 Co: 2024 or ARCH 3045 or CEE 3014	3
BC	2114 ⁴	IT in Design and Construction Pre: 1224 or CEM 2104 Co: 2014	3
BC	3064	Intergrated Construction II Pre: (2064, 3114, PHYS 2305) or (3114, CEM 2104, PHYS 2305)	3
BC	3114	Building Systems Technology Pre: (2024 or CNST 2104 or CEM 2104), PHYS 2305	3
BC	4064	Integrated Construction III Pre: 3064	3

III. Major Requirement (30 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	2214 ⁴	Why Buildings Stand Up Pre: MATH 1225 or 1025	3
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 5264G or (5514 and 5154) 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
MGT	3304	Management Theory & Leadership Practice Pre: Sophomore Standing	3

IV. Choose 1 of the 5 tracks below to complete degree requirements. (26 credit hours)

Residential	Construction	and Develo	pment (RCD)	

BC	2354	Residential Construction Technologies Pre: 2014
BC	4324	Innovation in Residential Construction Pre: 2024, 3114
BC	4374	Residential Housing & Land Development Pre: 2064, 3064. Co: 4064
MATH	1114	Elementary Linear Algebra Business & Management Elective ² Business & Management Elective ²
		Free Elective
		Free Elective Construction Elective ³

Structural Design (SD)

MATH	1226	Calculus of a Single Variable Pre: 1225
MATH	2204	Multivariable Calculus Pre: (1226)
ESM	2104	Statics Pre: MATH 1226
ESM	2204	Mechanics of Deformable Bodies Pre: ESM 2104 and MATH 2204
CEE	3404	Intro Structural Engineering Pre: ESM 2204 (C-)
CEE	3424	Reinforced Concrete Structures I Pre: (3404 (C-), (3684 (C-) or BC 2044)
CEE	3434	Design of Steel Structures I Pre: (CEE 3404 (C-), (CEE 3684 (C-) or BC 2044)
		Construction Elective ³

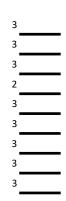
Sustainable Building Performance (SBP)

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I	BC	3014	Building Physics & Environmental Systems Pre: PHYS 2305
I	BC	4314	Building Performance & Energy Management Pre: 3014
I	BC	4334	Sustainable Buiding Performance Management Pre: 3064, 3014
1	MATH	1114	Elementary Linear Algebra Business & Management Elective ² Business & Management Elective ² Free Elective Free Elective Construction Elective ³

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Virtual Design Construction (VDC)

BC	4114	BIM in Design and Construction Pre: 2114
BC	4124	Digital Construction & Manufactoring Pre: 2114
BC	4364	Lifecycle BIM for Facility Management Pre: 2114, 3114
MATH	1114	Elementary Linear Algebra Business & Management Elective ² Business & Management Elective ²
		Free Elective
		Free Elective
		Construction Elective 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						
Business	& Mana	agement	Elective ²	3		
Departm	ient Appi	roved Ele	ctive	3		
Departm	ient Appi	roved Ele	ctive	3		
Departm	ient Appi	roved Ele	ctive	3		
Departm	ient Appi	roved Ele	ctive	3		
Departm	partment Approved Elective					
Departm	ient Appi	roved Ele	ctive	3		
MATH	1114	Elemen	itary Linear Algebra	2		
² Busines	s and M	anageme	nt Electives			
	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		
	AAEC	4764	Real Estate Appraisal Pre: Junior Standing	Var 3 - 5		
	ACIS	2116	Principles of Accounting Pre: 2115 (C-)	3		
	ISE	4004	Theory of Organization	3		
	MGT	2064	Foundations of Entrepreneurs	3		
	MGT	2354	Leadership for Managers and Entrepreneurs Pre: Sophomore Standing	3		
			Cornerstones Entrepreneurship Pre: MGT 2064 and completion of 45 credit hours and two Area 5 courses			
	MGT	3064		3		
	MKTG	3104	Marketing Management Pre: Junior Standing	3		
	MKTG	4734	Real Estate Marketing Pre: 3104, Junior Standing	3		
	PM	2674	Multifamily Property Management and Operations	3		
	UAP	2004	Principles of Real Estate (Cross-list REAL 2004)	3		

³Construction Electives

Students may choose a BC course outside of their track of study. (i.e. a VDC student may choose a BC course from the SBP track)

C	or			
CEM	3064	Introduction to Lean Construction Pre: CEM 2104	3	
CEM	3074	Global Design and Construction for Sustainable Development Pre: Junior Standing	3	
CEM	3154	Smart Construction Pre: BC 2114	3	
CEM	4964	Field Work/Practicum	Var.	

Any other construction-related course must be approved by a BC advisor.

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:

⁴Upon having attempted 72 credit hours (entering as freshmen) or 90 credit hours (entering as transfers), a student must successfully complete BC 1224, 2064, 2114, 2214, MATH 1225, PHYS 2305. Students who do 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.

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.

Prerequistes 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.