

BACHELOR OF SCIENCE IN BUILDING CONSTRUCTION

The Bachelor of Science in Building Construction (BSBC) gives students a complete view of the building life cycle, including design, construction and operation. Students learn technology-driven methods of construction management and critical leadership skills. The curriculum shows students how prefabrication, 3D printing, virtual and augmented reality, drones, and robotics can impact safety, profitability, and sustainability. It's the major for students who prefer the practical and tangible aspects of the built environment, incorporating perspectives of construction contractors, owners, and facility managers.

Curriculum

The BSBC program consists of 120 credit hours plus wellness. It includes five free electives that can be used for a minor, three professional electives, and a Capstone project. An entrepreneurial component to the curriculum teaches students business concepts and communication skills, preparing them for business ventures in construction or technologies.

Code	Title	Credit Hours
Wellness		
APPH 1040	Scientific Foundations of Health or APPH 10 The Science of Physical Activity and Health or APPH 10 Flourishing: Strategies for Well-being and Resilience	2
Core A - Essential Skills		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
MATH 1552	Integral Calculus	4
Core B - Institutional Options		
CS 1301	Introduction to Computing or CS 1315 Introduction to Media Computation	3
Core C - Humanities		
Any HUM		6
Core D - Science, Math, & Technology		
MATH 1551	Differential Calculus	2
MATH 1553	Introduction to Linear Algebra	2
PHYS 2211	Introductory Physics I	4
Lab Science Elective		4
Core E - Social Sciences		
Select one of the following:		3
HIST 2111	The United States to 1877	
HIST 2112	The United States since 1877	
INTA 1200	American Government in Comparative Perspective	
POL 1101	Government of the United States	
PUBP 3000	American Constitutional Issues	
ECON 2100	Economic Analysis and Policy Problems	3
Any SS		6
Core F - Courses Related to Major		
BC 2610	Construction Technology I	3
BC 2620	Construction Technology II	3

BC 2631	Construction Seminar	2
BC 2632	Construction Materials and Methods	3
BC 2634	Construction Plans and Estimates	3
BC 2636	Construction Safety	3
Major Requirements		
BC 3600	Construction Cost Management	3
BC 3630	Project Management I	3
BC 3640	Construction Mechanics	3
BC 4050	Building Information Modeling for Multi-disciplinary Integration	3
BC 4130	Intg Design Constr & Dev	3
BC 4600	Project Management II	3
BC 4660	Entrepreneurship in Construction	3
BC 4630	Senior Capstone Project	3
BC 4660	Entrepreneurship in Construction	3
BC 4672	Mechanical, Electrical and Plumbing Systems for Construction Managers	3
BC 4680	Professional Internship	3
BC 4710	Green Construction	3
Professional Electives		
ARCH/CEE/CP 3000-level electives		9
Free Electives		
Free Electives		15
Total Credit Hours		122