

BUILDING CONSTRUCTION MANAGEMENT, Associate in Applied Science Degree - 4510

Engineering & Technology Department

The Building Construction Management AAS program prepares students for entry-level positions in the construction/contracting field as quantity take-off technicians and estimators, schedulers, supervisors, construction inspectors, project engineers, shop drawing reviewers, construction administrators as well as others. This curriculum is also supported by general education courses in the communications, humanities, sciences, and mathematics areas. All graduates acquire general knowledge of the overall construction process. The complete program is available through Virtual Learning.

Career or Transfer Opportunities

Graduates of the program are prepared for positions in the construction/contracting field as project managers or supervisors, construction schedulers, construction inspectors, construction estimators and contractors, project engineers, and quantity take-off technicians. Graduates may pursue a bachelor's degree in Technical Leadership through HACCC's articulation agreement with Bloomsburg University. Students may also transfer to Construction Management bachelor's degree programs at four-year schools.

Competency Profile

This curriculum is designed to prepare students to:

- Demonstrate effective communication, both orally and in writing
- Demonstrate the ability to estimate quantities and costs for the bidding process in a construction project
- Demonstrate the ability to schedule a basic construction project
- Demonstrate the ability to use current technology related to the construction process
- Interpret construction documents (contracts, specifications, and drawings) used in managing a construction project
- Apply basic principles of construction accounting
- Discuss basic surveying techniques used in building layout
- Discuss basic principles of ethics in the construction industry
- Identify the fundamentals of contracts, codes, and regulations that govern a construction project
- Recognize basic construction methods, materials and equipment
- Recognize basic safety hazards on a construction site and standard prevention measures
- Recognize the basic principles of structural design
- Recognize the basic principles of mechanical, electrical and piping systems
- Discuss the application of principles of sustainability to construction

PROGRAM REQUIREMENTS (TOTAL CREDITS = 61)

General Education		Major Requirements		Other Required Courses	
ENGL 101 English Composition I	3	ARCH 110 Construction Print Reading	3	CIS 105 Intro to Software for Business	3
COMM 101 Effective Speaking (or)	3	ARCH 130 Construction Materials & Methods	3	MGMT 227 Project Management	3
COMM 203 Interpersonal Communication	(3)	ARCH 135 Codes, Specifications & Safety	3	PHSC 113 Intro to Physical Science	<u>3</u>
Humanities & Arts Elective - HUM 115, 117 or 118	3	ARCH 214 Site Planning	3		9
Mathematics or Science Elective - MATH 103	3	ARCH 251 Environmental Control Systems for Bldgs.	3		
Social & Behavioral Science Elective - ECON 201	3	ARCH 253 Sustainable Architecture	3		
First-Year Seminar Elective - ARCH 111	3	BCT 211 Structural Concepts for Construction	3		
Wellness	<u>1</u>	BCT 212 Construction Contracts & Related Law	3		
	19	BCT 215 Construction Estimating	3		
		BCT 216 Construction Planning & Scheduling	3		
		BCT 217 Construction Project Administration	<u>3</u>		
			33		

RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

Part time students can complete this program by taking one or more courses each semester.

Fall Semester I	Spring Semester I	Fall Semester II	Spring Semester II
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