

Building Construction Technology

PROGRAM DESCRIPTION



The associate in applied science degree program is designed for students who are planning for leadership positions within the construction industry. The program encompasses studies in cabinetmaking and millwork, residential, commercial and industrial construction. Building codes, construction estimating and scheduling, building codes, quality control and safety are integral components of this program. Students

learn blueprint reading, computer aided drafting and design, construction layout, and carpentry skills. Students apply these skills by performing field layout projects, constructing a residential building, manufacturing and installing cabinetry, and designing, placing and finishing concrete.

The certificate program is designed to prepare students for entry-level positions as a carpenter in the residential building field. This program focuses on residential construction. Students study blueprint reading, drafting, safety and residential construction practices and apply these studies by building a residential building.

KEY LEARNING OBJECTIVES

Graduates of the associate in applied science degree will function at an entry-level position in the construction industry, but with the skill set necessary for later promotion into a mid-management level position. Skills will include:

- Describing the features and characteristics of the building products used in the trade, from framing materials, sheathing and roof covering to interior/ exterior finish.
- Interpreting plans, estimating costs, and facilitating a project layout.
- Explaining the effects of insulation, moisture, and air barriers on a structure.
- Recognizing opportunities to prevent damage and construct an efficient durable product.
- Understanding and utilizing math calculations, formulas, and measurement techniques required in the carpentry trade.
- Producing high quality finished products using the proper hand tools required for the trade. This includes table saws, miter saws, circular saws, planer, jointer, pneumatic nailers, and all associated hand tools.

PREREQUISITES

AAS Degree-high school level Algebra I required. Algebra II, Geometry, and Physics or Chemistry with Lab desired.

Certificate-high school level Algebra I required.

STILL IN HIGH SCHOOL? Concurrent enrollment agreements with many high schools and technical education centers are available. Information can be found on <http://www.emcc.edu/academics/programs/dual-enrollment/>.



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www.emcc.edu

BUILDING CONSTRUCTION TECHNOLOGY Associate in Applied Science Degree

FIRST SEMESTER

	CREDITS
BCT 151 Residential Construction I	7
DTG 121 Architectural Drafting I	3
ENG 101 College Composition	3
MAT 113 Technical Mathematics I	3

SECOND SEMESTER

	CREDITS
BCT 152 Residential Construction II	7
DTG 124 Architectural Drafting II	3
Restricted Elective: Any Math or Science (100 level or higher)	3-4
Restricted Elective: Any Humanities/Social Science (100 level or higher)	3

THIRD SEMESTER

	CREDITS
BCT 213 Stair Construction	1
BCT 255 Commercial and Industrial Construction	4
BCT 264 Construction Estimating	3
DTG 223 Architectural Drafting III	3
Restricted Elective: Any Humanities/Social Science (100 level or higher)	3

FOURTH SEMESTER

	CREDITS
BCT 266 Construction Management & Estimating II	3
BCT 272 Cabinetmaking and Millwork	5
ENG 215 Business and Technical Writing	3
Restrictive	
Elective: Any Communication, Humanities, Math, Science, Social Science (100 level or higher)	3

TOTAL AAS DEGREE CREDITS **60-61**

BUILDING CONSTRUCTION TECHNOLOGY Certificate

FIRST SEMESTER

	CREDITS
BCT 151 Residential Construction I	7
DTG 121 Architectural Drafting I	3
ENG 101 College Composition	3
MAT 113 Technical Mathematics I	3

SECOND SEMESTER

	CREDITS
BCT 152 Residential Construction II	7
DTG 124 Architectural Drafting II	3
Restricted Elective: Any Math or Science (100 level or higher)	3-4
Restricted Elective: Any Humanities/Social Science (100 level or higher)	3

TOTAL CERTIFICATE CREDITS **32-33**

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for over 260 students.



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offers tutoring services free of
charge to our students.**



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sponsors many on-
campus intramural
sports and
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per year**

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