

## **Building Construction Technology** *Certificate – 38 credit hours*

**Purpose:** The Building Construction Technology programs prepares students to work on residential and commercial structures and projects with an emphasis on foundational and advanced construction skills and techniques, green/energy efficient/sustainable technologies and practices, smart building/home technologies, and industry credentialing. Through traditional classroom lecture, shop activities, field experience and community projects, students will prepare for the current and rapidly evolving construction industry. The program will provide instruction in construction trade skills, health and safety, project management, and materials and equipment.

**Career Opportunities:** Upon successful completion of the program, graduates are prepared to work in residential, commercial and institutional construction; emerging sustainable building and retro-fitting fields, construction materials and equipment field, and prefabricated unit manufacturing and building.

**Program Educational Outcomes:** Upon completion of Building Construction Technology, the graduate is prepared to:

1. Construct a site plan through lot and building layout.
2. Use and work with a complete set of working drawings for a residential structure.
3. Establish costs of projects from a set of working drawings.
4. Construct and remodel residential structures within safety and building code guidelines.
5. Design supports by determining strengths of materials through standard architectural procedures.
6. Communicate with manufacturers and suppliers via oral, written, and electronic methods.
7. Build a complete residential structure from start to finish.
8. Identify and deal with a variety of environmental issues pertaining to the industry.
9. Earn NCCER Certification.

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<b>Course #</b>	<b>Course Title</b>	<b>Credits</b>
<b>Semester 1</b>		
BCN111	Construction Core Curriculum	4
BCN120	Construction Technology I	9
DRG125	Architectural Print Reading and CAD	3
ENG101	College Composition	3
FYE100	First Year Experience	1
	<b>Total</b>	<b>20</b>
<b>Semester 2</b>		
MAT106	College Mathematics for Technologies	3
DRG126	Architectural Drafting and CAD	3
BCN126	Construction Technology II	12
	<b>Total</b>	<b>18</b>

**Building Construction Technology**  
*Associate in Applied Science - 62/63credit hours*

**Purpose:** The intent of the AAS curriculum is to allow students flexibility in the selection of subject matter related to the Construction Industry. Students will participate in a curriculum focused on Building Construction Technologies with a broad introduction to Plumbing Technology, Heating and Propane Technology, Electrical Technology and Building Weatherization in a combination of courses designed to meet their interests and career objectives. The end product of this degree will be a multi-skilled construction worker with knowledge of more than just one aspect of the building process.

**Career Opportunities:** Graduates of this program will be multi-skilled and have a great understanding in the process and requirements for residential and light commercial construction. Students will be able to offer employers a more versatile employee with possibilities for advancement and eliminate the seasonality of some trades.

**PROGRAM EDUCATIONAL OUTCOMES:** Upon completion of the Associate in Applied Science degree in the Construction Technology Program, the graduate is prepared to:

1. Demonstrate safe work habits in compliance with industry standards set forth by the construction industry in areas of student concentration.
2. Qualify for employment in a variety of areas in construction depending on his/her choices of study.
3. Will have national certification in Carpentry through NCCER (National Center of Construction Education and Research), and be preparing for State Licensing in program areas of study.
4. Will have knowledge and experience in multiple areas of construction that will allow the student to apply to a wider scope of employers when seeking employment in the Construction Industry.

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	<b>Total</b>	<b>18</b>
<b>Semester 3</b>		
ENG210	Technical Writing	3
Elective	Mathematics/Science	3-4
Elective	Arts/Humanities/Social Science	3
Elective	Construction Based Elective	3
	<b>Total</b>	<b>12-13</b>
<b>Semester 4</b>		
Elective	Arts/Humanities/Social Science	3
Elective	Arts/Humanities/Social Science	3
Elective	Construction Based Elective	3
Elective	Construction Based Elective	3
	<b>Total</b>	<b>12</b>