

Construction Technology – Carpentry-AAS

Students enrolling in the Construction Technology – Carpentry program will develop their communication and construction skills enabling them to enter a career in residential or commercial construction. The program coursework will provide the student with a mix of technical education, general studies, theory and hands-on learning experiences. As students progress in the program they will gain the knowledge and ability to draft, read and interpret building codes for a set of construction blueprints. Estimating the amount of material and time required to construct a building with the use of estimating handbooks, spreadsheets and prevailing wage tables. Students will learn how to layout a building on a site and “attach” the building to the site with concrete footings and foundation walls. Students will then progress through the floor, wall and roof framing, exterior and interior finishing, door and window installation and roofing. The Construction Technology – Carpentry program will be reinforced with writing, math and people skills required to successfully communicate and problem solve in the construction trades.

Upon the completion of the required coursework, students will be eligible for certification with National Center for Construction Education and Research (NCCER) National Registry and a one-year Certificate of Applied Science or a two year Associate of Applied Science degree.

Students entering the program should have good manual dexterity skills, like to work outdoors in changing weather conditions and be comfortable working at varying heights.

Students completing the program will be able to do the following:

- Demonstrate problem solving, informational literacy, technological and communication skills in team and individual learning exercises.
- Exhibit a sense of pride in one’s work and the desire to progress and excel in the carpentry profession.
- Ability to use manual and power equipment typically used in industry.
- Skills that will promote occupational growth and life-long learning.

Assessment

National Center for Construction Education and Research
 Student evaluations
 Student portfolios
 Noel-Levitz Student Satisfaction Survey
 Graduate Placement Survey
 Survey of seniors
 Alumni
 Capstone Courses
 Advisory Board

1st Semester				3rd Semester			
*CARP	0120	Carpentry Basics and Rough-in Framing (Level 1)	5	*CARP	0140	Introduction to Site Layout (Level 2)	3
*CNST	0100	Construction Technology Fundamentals and Safety	3	*CARP	0220	Interior Finishing (Level 3)	4
*CNST	0110	Blueprint Reading, Codes and Estimation for Construction (Core)	3	*CNST	0200	Basic Rigging (Core)	1
ENGL	0102	Intro to Writing	3	*D.T.	0125	AutoCAD I	3
MATH	0101	Introduction to Algebra	4	*D.T.	0250	Building Methods and Materials	4
				M.T.	0220	Employment Strategies	2
Total 18				Total 17			
2nd Semester				4th Semester			
**CARP	0130	Exterior Finishing, Stair Construction, and Metal Stud Framing (Level 3)	4	**CARP	0230	Advanced Roof, Floor, Wall, and Stair Systems (Level 4)	4
**CARP	0150	Carpentry Practicum I	3	**CARP	0250	Carpentry Practicum II	3
I.T.	1416	Microcomputer Software	3	**CARP	0260	Concrete Forms, Reinforcement and Handling (Level 4)	5
PSYC	1000	General Psychology	3	**MFAB	0140	Basic Welding	2
**MATH	0130	College Mathematics for Trades	3	**CARP	0270	Metal Buildings (Level 4)	1
Total 16				Total 15			

Minimum credits for an AAS degree in Construction Technology – Carpentry 66

* Offered only in Fall

** Offered only in Spring

Completion of the first two semesters may result in CERTIFICATE OF APPLIED SCIENCE IN CARPENTRY. Student must complete a course in each of the following areas: *English, Math, and Psychology* to receive a certificate.

This program is designed for fall entry. If a spring entry is desired, it will take longer than two years to complete.