

# CONSTRUCTION TECHNOLOGY - ASSOCIATE IN SCIENCE

Successful completion of the Construction Technology program prepares students for entry into the construction trades, which require a technical skill and understanding of construction processes. Highlights: Program designed for immediate employment, upgrading of job skills, and potential opportunities for career self-employment. Courses can be transferable to four-year institutions.

A grade of "C" or better is required for each course in the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major or area of emphasis if the course is taken on a Pass/No Pass basis.

## CAREER OPTIONS:

- Building Information Modeling (BIM)
- Building Inspector
- Carpenter
- Concrete Form Setter
- Construction Worker
- Construction Management
- Contractor
- Drywall Hanger, Taper, and Texturing
- Electrician
- Estimator
- Home Improvement Material Retail Sales
- Insulation Installer
- Painter
- Plumber
- Residential Maintenance
- Roofer

Upon successful completion of this program, students will be able to:

- Demonstrate appropriate use of construction tools, methods and materials, follow safety practices and procedures used in the industry.
- Demonstrate understanding of construction terms, concepts, and hands-on applications.
- Read and interpret building codes, blueprints, manuals, specifications, shop drawings.
- Apply effective use of emerging technologies in the construction trades including application Virtual Design and Construction (VDC) and energy efficiency.

## Major Requirements

Course	Title	Credits
CNSTR 101A	Tools, Materials, and Safety	2
CNSTR 101B	Residential Construction Framing	3
CNSTR 102A	Residential Plumbing Systems	3
CNSTR 102B	Residential/Commercial Wiring	3
CNSTR 105	Concrete Construction	3
CNSTR 110	Building Information Modeling (BIM) 101	3
CNSTR 115	Blueprint Reading	3

CNSTR 117	OSHA Construction Safety Standards	1
CNSTR 120	Building Codes	3
CNSTR 125	Energy Efficiency Construction	3
<b>Total Units</b>		<b>27</b>

Course	Title	Credits
<b>Approved Major Electives</b>		<b>9</b>
<i>Complete 9 non-duplicated units from the following approved major electives:</i>		
CNSTR 103	Roof Framing Systems	3
CNSTR 104	Interior/Exterior Finish	3
CNSTR 107	Principles of Contracting	3
CNSTR 116	Estimating	3
CNSTR 118	Project Management for Construction	3
CNSTR 128	National Electrical Code & Calculations	3
CNSTR 138	Work Experience	1-8
FMT 100	Introduction to Facilities Maintenance	3.5
SOLAR 102	Introduction to Photovoltaic Installation	3.5

## AS Degree Requirements

Course	Title	Credits
Major Requirements		27
Approved Major Electives		9
General Education Requirements		27
Complete two courses for the U.S. History, Constitution, and American Ideals Requirement (US-1, US-2, and US-3)		
<b>Total Units</b>		<b>63</b>