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
Total Units		**27**

Course	Title	Credits
Approved Major Electives		**9**
Complete 9 non-duplicated units from the following approved major electives:		
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)		
Total Units		**63**