

Building Construction Technology

A35140 (Degree) D35140 (Diploma)

These curriculums are designed to prepare individuals to apply technical knowledge and skills to residential and commercial building construction and remodeling. Includes instruction in construction equipment and safety; site preparation and layout; construction estimating; print reading; building codes; framing; masonry; heating, ventilation, and air conditioning; electrical and mechanical systems; interior and exterior finishing; and plumbing.

Course work includes instruction in sustainable building and design, print reading, building codes, estimating, construction materials and methods, and other topics related to design and construction occupations.

Graduates of this pathway should qualify for entry-level jobs in architectural, engineering, construction and trades professions as well as positions in industry and government.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Title	Class/Lab/Credit				
I. General Education Courses					
COM 120	Interpersonal Communication	3	0	0	3
ENG 111	Writing and Inquiry	3	0	0	3
MAT 110	Math Measurement & Literacy	2	2	0	3
or MAT 143	Quantitative Literacy	2	2	0	3
Select one course each from Humanities/Fine Arts and Social Behavioral Sciences on page 79.					
II. Major Courses					
A. Core Courses					
ARC 112	Constr Materials & Methods	3	2	0	4
BPR 130	Print Reading-Construction	3	0	0	3
CAR 111	Carpentry I	3	15	0	8
CMT 120	Codes and Inspections	3	0	0	3
CST 221	Statics/Structures	3	3	0	4
CST 241	Planning/Estimating I	2	2	0	3
B. Other Major Courses					
CAR 112	Carpentry II	3	15	0	8
CST 131	OSHA/Safety/Certification	2	2	0	3
ELC 113	Residential Wiring	2	6	0	4
ELC 118	National Electric Code	1	2	0	2
MAS 140	Intro to Masonry	1	2	0	2
PLU 115	Basic Plumbing	2	6	0	4
C. Other Required Courses					
AHR 110	Intro to Refrigeration	2	6	0	5
BUS 230	Small Business Management	3	0	0	3
SST 140	Green Bldg. & Design Concepts	3	0	0	3
WBL 111	Work-Based Learning I	0	0	10	1

Total Credits: 64

*Recommended Semester Schedule
Degree (A55470)*

			Class	Lab	Work/ Clinical	Credit		
First Year Fall								
CAR	111	Carpentry I	3	15	0	8		
BPR	130	Print Reading-Construction	3	0	0	3		
ARC	112	Constr Materials & Methods	3	2	0	4		
First Year Spring								
ELC	113	Residential Wiring	2	6	0	4		
ELC	118	National Electric Code	1	2	0	2		
PLU	115	Basic Plumbing	2	6	0	4		
CMT	120	Codes and Inspections	3	0	0	3		
		Humanities/Fine Arts Elective	3	0	0	3		
First Year Summer								
CST	131	OSHA/Safety/Certification	2	2	0	3		
MAT	110	Math Measurement & Literacy	2	2	0	3	or	
MAT	143	Quantitative Literacy	2	2	0	3		
BUS	230	Small Business Management	3	0	0	3		
Second Year Fall								
CAR	112	Carpentry II	3	15	0	8		
ENG	111	Writing and Inquiry	3	0	0	3		
AHR	110	Intro to Refrigeration	2	6	0	5		
MAS	140	Intro to Masonry	1	2	0	2		
Second Year Spring								
CST	221	Statics/Structures	3	3	0	4		
CST	241	Planning/Estimating I	2	2	0	3		
SST	140	Green Bldg. & Design Concepts	3	0	0	3		
WBL	111	Work-Based Learning I	0	0	10	1		
		Social/Behavioral Science Elective	3	0	0	3		
Total Credits: 64								

Recommended Semester Schedule
D35140 (Diploma)

First Year-Fall

CAR	111	Carpentry I	3	15	8
BPR	130	Print Reading-Construction	3	0	3

First Year-Spring

ELC	113	Residential Wiring	2	6	4
ELC	118	National Electric Code	1	2	2
PLU	115	Basic Plumbing	2	6	4

First Year-Summer

CST	131	OSHA/Safety/Certification	2	2	3
		Natural Science Mathematics	2	2	3

Second Year-Fall

CAR	112	Carpentry II	3	15	8
ENG	111	Writing and Inquiry	3	0	3