



Architecture and Construction Career Cluster

The Architecture and Construction career cluster focuses on designing, planning, managing, building, and maintaining the built environment. This career cluster includes occupations ranging from architect, carpenter, and construction manager to electrician, plumber, and heating, air conditioning, and refrigeration technician.

Statewide Program of Study: Carpentry

The Carpentry program of study focuses on occupational and educational opportunities related to constructing, installing, and repairing structures and fixtures made of wood (including frameworks, partitions, joists, studding, rafters, and stairways). The program of study includes installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.

Secondary Courses for High School Credit



Level 1	• Principles of Construction (1 credit) • 1824CT; 9-12 grade • 1 semester at Ben Barber • NCCER Core Certification Possible • Principles of Architecture (1 credit) • 1819CT; 9-12 grade • 1 semester at Ben Barber
Level 2	• Construction Technology I (2 credits) • 1820CA/CB; 10-12 grade • 2 semesters at Ben Barber • <i>Prerequisite: Principles of Construction</i> • Entrepreneurship I (1 credit) • 1720CT or 1720A/B; 9-12 grade • 1 semester at Ben Barber or 2 semesters at Home Campus
Level 3	• Construction Technology II (2 credits) • 1825CA/CB; 11-12 grade • 2 semesters at Ben Barber • <i>Prerequisite: Construction Technology I</i>
Level 4	• Practicum in Construction Technology (2 credits) • 1827CA/CB; 12th grade • 2 semesters at Ben Barber • <i>Prerequisite: Construction Technology II and Selection Process</i>



Example Postsecondary Opportunities

Apprenticeships

- Carpenter

Associate Degrees

- Construction Management
- Construction Engineering Technology
- Building Construction Technology

Bachelor's Degrees

- Construction Engineering
- Construction Science
- Construction Site Management

Master's, Doctoral, and Professional Degrees

- Construction Engineering Technology
- Construction Engineering
- Construction Management
- Project Management



Example Aligned Occupations

Drywall and Ceiling Tile Installers

Median Wage: \$44,699
Annual Openings: 758
10-Year Growth: 14%

Carpenters

Median Wage: \$46,272
Annual Openings: 5,623
10-Year Growth: 15%

Construction Managers

Median Wage: \$95,072
Annual Openings: 6,325
10-Year Growth: 24%

