



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: *Architectural Drafting and Design*

The Architectural Drafting and Design program of study focuses on occupational and educational opportunities associated with developing, engineering, and designing building structures and facilities. This program of study includes reading, interpreting, and drawing blueprints for interior and exterior construction projects.

Secondary Courses for High School Credit

- 
- | | |
|----------------|---|
| Level 1 | <ul style="list-style-type: none">• Principles of Architecture (1 credit)<ul style="list-style-type: none">• 1819CT; 9-12 grade• 1 semester at Ben Barber• Principles of Construction (1 credit)<ul style="list-style-type: none">• 1824CT; 9-12 grade• 1 semester at Ben Barber |
| Level 2 | <ul style="list-style-type: none">• Architectural Design I (1 credit)<ul style="list-style-type: none">• 1660CT; 10-12 grade• 1 semester at Ben Barber• <i>Prerequisite: Principles of Architecture AND English I AND Algebra I</i>• Autodesk Certified User in AutoCAD Certification Possible |
| Level 3 | <ul style="list-style-type: none">• Architectural Design II (2 credits)<ul style="list-style-type: none">• 1665CA/CB; 11-12 grade• 2 semesters at Ben Barber• <i>Prerequisite: Architectural Design I AND Geometry</i>• Autodesk Certified User in Revit Architecture Certification Possible |
| Level 4 | <ul style="list-style-type: none">• Practicum in Architectural Design (2 credits)<ul style="list-style-type: none">• 1668CA/CB; 12th grade• 2 semesters at Ben Barber• <i>Prerequisite: Architectural Design II and Selection Process</i> |



Example Postsecondary Opportunities

Apprenticeships

- Drafter

Associate Degrees

- CAD/CADD Drafting and/or Design Technology
- Drafting and Design Technology
- Surveying Technology/Surveying
- Architectural Drafting and Architectural CAD/CADD

Bachelor's Degrees

- Civil Engineering
- Construction Engineering
- Surveying Engineering
- Drafting and Design Technology

Master's, Doctoral, and Professional Degrees

- Civil Engineering
- Geographic Information Science and Cartography
- Construction Engineering Technology



Example Aligned Occupations

Architectural and Civil Drafters

Median Wage: \$57,424
Annual Openings: 1,366
10-Year Growth: 15%

Architects

Median Wage: \$80,903
Annual Openings: 966
10-Year Growth: 18%

Construction Managers

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

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024



For more information visit:

<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources>