



# 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

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|----------------|---|
| <b>Level 1</b> | <ul style="list-style-type: none"> <li>Principles of Architecture</li> </ul>  |
| <b>Level 2</b> | <ul style="list-style-type: none"> <li>Architectural Design 1</li> <li>Interior Design 1</li> </ul>                       |
| <b>Level 3</b> | <ul style="list-style-type: none"> <li>Architectural Design 2</li> <li>Interior Design 2</li> </ul>                       |
| <b>Level 4</b> | <ul style="list-style-type: none"> <li>Practicum in Architectural Design</li> <li>Practicum in Interior Design</li> </ul> |



## 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

## Work-Based Learning and Expanded Learning Opportunities

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| <b>Work-Based Learning Activities</b>  | <ul style="list-style-type: none"> <li>Intern at an architectural firm to develop CADD drafting and design technology skills</li> <li>Shadow a civil engineer to learn more about their day-to-day responsibilities</li> </ul> |
| <b>Expanded Learning Opportunities</b> | <ul style="list-style-type: none"> <li>Conduct an informational interview with an architect to learn about their role and responsibilities</li> <li>Participate in SkillsUSA or TSA</li> </ul>                                 |

## Aligned Industry-Based Certifications

- Autodesk Associate (Certified User) Revit Architecture



## 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%



Successful completion of the Architectural Drafting and Design program of study will fulfill requirements of the Business and Industry endorsement.



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>

# Architecture & Construction Cluster

## *Business & Industry Endorsement*

