



# 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: *Construction Management and Inspection*

The Construction Management and Inspection program of study focuses on occupational and educational opportunities associated with producing cost estimates for construction projects to support bidding on or determining the price of products or services. The program of study includes inspecting structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.



### Secondary Courses for High School Credit

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|----------------|--|
| <b>Level 1</b> | <ul style="list-style-type: none"> <li>Principles of Construction</li> <li>Principles of Architecture</li> </ul>   |
| <b>Level 2</b> | <ul style="list-style-type: none"> <li>Construction Management I</li> <li>Building Maintenance Technology I</li> </ul>   |
| <b>Level 3</b> | <ul style="list-style-type: none"> <li>Construction Management II</li> <li>Building Maintenance Technology II</li> </ul>   |
| <b>Level 4</b> | <ul style="list-style-type: none"> <li>Practicum in Construction Management</li> <li>Practicum in Construction Management + Extended Practicum in Construction Management</li> <li>Practicum in Construction Technology</li> <li>Practicum in Construction Technology + Extended Practicum in Construction Technology</li> <li>Career Preparation for Programs of Study</li> <li>Career Preparation for Programs of Study + Extended Career Preparation</li> </ul> |

### Aligned Advanced Academic Courses

<b>Dual Credit</b>	Dual credit offerings will vary by local education agency.
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Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

### Work-Based Learning and Expanded Learning Opportunities

#### Work-Based Learning Activities

- Shadow a construction manager to learn how to lead a team and develop a budget
- Participate in a pre-apprenticeship to clean and prepare construction sites by digging trenches and setting up scaffolding

#### Expanded Learning Opportunities

- Shadow a building inspector or cost estimator
- Participate in SkillsUSA

### Aligned Industry-Based Certifications

- Certified Associate in Project Management (CAPM)
- HBI Pre-Apprenticeship Certificate Training (PACT), Building Construction Technology
- HBI Pre-Apprenticeship Certificate Training (PACT), Core
- LEED Green Associate
- NCCER Construction Site Safety Technician
- NCCER Construction Technology Certification Level I
- NCCER Core
- NCCER Weatherization Technician Level I
- Residential Plans Examiner - R3



### Example Postsecondary Opportunities

#### Apprenticeships

- Building Inspector

#### Associate Degrees

- Construction Management
- Construction Engineering Technology
- Building/Property Maintenance
- Building/Construction Site Management

#### Bachelor's Degrees

- Construction Engineering Technology
- Construction Management
- Building/Property Maintenance

#### Master's, Doctoral, and Professional Degrees

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



### Example Aligned Occupations

#### Construction and Building Inspectors

Median Wage: \$62,251  
Annual Openings: 1,585  
10-Year Growth: 9%

#### First-Line Supervisors of Construction Trades and Extraction Workers

Median Wage: \$64,473  
Annual Openings: 9,513  
10-Year Growth: 23%

#### 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>



# Architecture and Construction Career Cluster

## Statewide Program of Study: Construction Management and Inspection

### Course Information

#### Level 1

Course	Prerequisites   Corequisites	Career Clusters
<b>Principles of Construction*</b> 13004220 (1 credit)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Principles of Architecture*</b> 13004210 (1 credit)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	

#### Level 2

Course	Prerequisites   Corequisites	Career Clusters
<b>Construction Management I</b> 13004900 (2 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> Algebra I, Geometry, and Principles of Architecture or Principles of Construction <b>Recommended Corequisites:</b> None	
<b>Building Maintenance Technology I*</b> 13005400 (2 credits)	<b>Prerequisites:</b> None <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> Principles of Architecture or Principles of Construction <b>Recommended Corequisites:</b> None	

#### Level 3

Course	Prerequisites   Corequisites	Career Clusters
<b>Construction Management II</b> 13005000 (2 credits)	<b>Prerequisites:</b> Construction Management I <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Building Maintenance Technology II</b> 13005500 (2 credits)	<b>Prerequisites:</b> Building Maintenance Technology I <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	

\* Indicates course is included in more than one program of study.

For additional information on the **Architecture and Construction** career cluster, contact [cte@tea.texas.gov](mailto:cte@tea.texas.gov) or visit <https://tea.texas.gov/cte>



# Architecture and Construction Career Cluster

## Statewide Program of Study: Construction Management and Inspection

### Course Information

Level 4

Course	Prerequisites   Corequisites	Career Clusters
<b>Practicum in Construction Management</b> First Time Taken: 13006200 (2 credits) Second Time Taken: 13006210 (2 credits)	<b>Prerequisites:</b> Construction Management II <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Practicum in Construction Management + Extended Practicum in Construction Management</b> First Time Taken: 13006205 (3 credits) Second Time Taken: 13006215 (3 credits)	<b>Prerequisites:</b> Construction Management II <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Practicum in Construction Technology*</b> First Time Taken: 13005250 (2 credits) Second Time Taken: 13005260 (2 credits)	<b>Prerequisites:</b> Construction Technology II, Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Practicum in Construction Technology + Extended Practicum in Construction Technology*</b> First Time Taken: 13005255 (3 credits) Second Time Taken: 13005265 (3 credits)	<b>Prerequisites:</b> Construction Technology II, Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Career Preparation for Programs of Study*</b> First Time Taken: 12701121 (2 credits)	<b>Prerequisites:</b> At least one Level 2 or higher CTE course <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	
<b>Career Preparation for Programs of Study + Extended Career Preparation*</b> First Time Taken: 12701141 (3 credits)	<b>Prerequisites:</b> At least one Level 2 or higher CTE course <b>Corequisites:</b> None <b>Recommended Prerequisites:</b> None <b>Recommended Corequisites:</b> None	

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