

Architecture and Construction Career Cluster

The Architecture and Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.

Construction Technology



The Carpentry program of study explores the occupations and educational opportunities related to constructing, installing, or repairing structures and fixtures made of wood, such as concrete forms (including frameworks, partitions, joists, studding, rafters, and stairways). This program of study may also include exploration into 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

Level 2

- Construction Technology I ²

Level 3

- Construction Technology II

Level 4

- Practicum in Construction Technology



Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Participate in SkillsUSA & Technology Student Association (TSA)

Work-Based Learning Activities

- Obtain an NCCER
- Shadow a carpenter or millwright

Industry-Based Certifications

- NCCER Core ¹
- NCCER Carpentry Level I ²



Postsecondary Opportunities

Associates Degrees

- Carpentry/Carpenter
- Industrial Mechanics and Maintenance Technology

Bachelor's Degrees

- Construction Science

Master's, Doctoral, and Professional Degrees

- Construction Management

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Carpenters	\$44,800	5,600	15%
Cost Estimators	\$70,000	1,700	14%

Successful completion of the Construction Technology program of study will fulfill requirements of the Business and Industry endorsement. Revised – January 2023

Construction Technology

Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE LEVEL(S)
Principles of Construction	13004220 (1 credit)	None	9

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE LEVEL(S)
Construction Technology I	13005100 (2 credits)	Principles of Construction	10

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE LEVEL(S)
Construction Technology II	13005200 (2 credits)	Construction Technology I	11

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	GRADE LEVEL(S)
Practicum in Construction Technology	13005250 (2 credits)	Construction Technology II	12

FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER,
PLEASE CONTACT YOUR CAMPUS CTE COUNSELOR
<https://tea.texas.gov/cte>

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[Notification of Nondiscrimination in Career and Technical Education Programs.](#)