

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.

Architectural Design Big Spring HS Program of Study



The Architectural Design program of study explores the occupations and educational opportunities associated with developing, engineering, and designing building structures and facilities. This program of study may also include exploration into collecting and interpreting geographic information, researching and preparing maps, and interior design.

Secondary Courses for High School Credit

Level 1

Level 2

- Interior Design I
- Computer Aided Drafting for Architecture

Level 3

- Interior Design II

Level 4

- Career Preparation I
- Practicum in Architectural Design

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Shadow an architect, interior designer or civil engineer
- Participate in SkillsUSA

Work-Based Learning Activities

- Intern at an architectural firm

Industry-Based Certifications

- Autodesk Associate (Certified User & Professional) AutoCAD
- Autodesk Associate (Certified User) Revit for Structural Design
- Autodesk Certified Professional in AutoCAD for Design and Drafting

Postsecondary Opportunities

Associates Degrees

- Architecture
- Interior Design
- Civil Engineering, General
- Geographic Information Science and Cartography

Bachelor's Degrees

- Architecture
- Interior Design
- Civil Engineering, General
- Geographic Information Science and Cartography

Master's, Doctoral, and Professional Degrees

- Architecture
- Interior Architecture
- Civil Engineering, General
- Geographic Information Science and Cartography

- Certified SOLIDWORKS Associate*
- Mastercam Associate Certification*

*IBC sunsetting 8/31/24

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Architects	\$77,043	808	16%
Geographic Information Analysts and Surveyors	\$58,926	162	27%
Architectural/ Civil Drafters	\$50,170	1,068	9%
Construction Managers	\$87,402	2,401	14%

Successful completion of the Architectural Design program of study will fulfill requirements of the Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022

Architectural Design Course Information

Level 1

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
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Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Interior Design I	13004300 (1 credit)	Algebra I and English I	None
Computer Aided Drafting for Architecture	N1300429 (1 credit)	None	None

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Interior Design II	13004400 (2 credits)	English II, Geometry, and Interior Design I	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Practicum in Architectural Design	13004800 (2 credits) 13004805 (3 credits) 13004810 (2 credits) 13004815 (3 credits)	Architectural Design II	None
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

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

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