## 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 Statewide 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

Principles of Architecture

#### Level 2

Architectural Design I

#### Level 3

Architectural Design II

#### Level 4

Career Preparation I

#### **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

## Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul> <li>Shadow an architect, interior designer or civil engineer</li> <li>Participate in SkillsUSA</li> </ul>	<ul> <li>Intern at an architectural firm</li> </ul>
Industry-Based Cer	tifications
<ul> <li>Autodesk Associate (C</li> <li>Design Autodesk Certified Pro and Drafting</li> </ul>	Certified User) 3ds MAX Certified User) AutoCAD Certified User) Fusion 360 Certified User) Revit Archited Certified User) Revit for Elect Certified User) Revit for Stru- fied Professional Fusion 360 ofessional in AutoCAD for De
<ul> <li>Autodesk Certified Pro Infrastructure Design</li> <li>Autodesk Certified Pro Architectural Design</li> </ul>	ofessional in Civil 3D for ofessional in Revit for
<ul><li>Design</li><li>Autodesk Certified Pro</li></ul>	ofessional in Revit for Electr ofessional in Revit for Struct
Design	

- LEED Green Associate
- 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
Principles of Architecture	13004210 (1 credit)	None	None
Level 2			

#### Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Architectural Design I	13004600 (1 credit)	Algebra I and English I	None

## Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Architectural Design II	13004700 (2 credits)	Architectural Design I or Advanced Interior Design and Geometry	None

### Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	None

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

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Further nondiscrimination information can be found at <u>Notification of Nondiscrimination in Career and Technical</u> <u>Education Programs</u>.