

Architectural Design

Business and Industry Endorsement

Career Pathways

- Architectural Design
- Construction
- Maintenance/Operations

Program Highlights

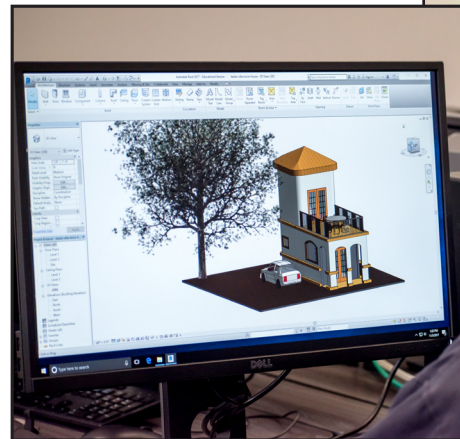
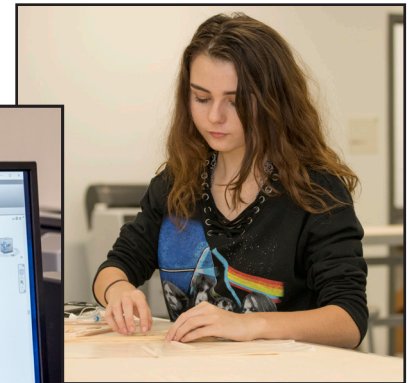
- Drafting
- Perspective Drawing
- Bridge Design and Construction
- Furniture Design
- Tiny House Design
- Autodesk Revit Building Design

Certification / Certificate Options

- OSHA General Certification
- NCCER
- SkillsUSA Workforce Ready
- Autodesk Revit



Architecture & Construction



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.

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
Architectural Design	Principles of Architecture (1 Credit)	Architectural Design I (1 Credit) <i>Prerequisite:</i> <i>Principles of Architecture, Algebra 1, and English 1</i>	Architectural Design II (2 Credits) <i>Prerequisite:</i> <i>Architectural Design I (or Interior Design II) and Geometry</i>	Practicum in Architectural Design (2 Credits) <i>Prerequisite:</i> <i>3 credits in the Architectural Design Program including Architectural Design II</i>

CTSO's

- SkillsUSA

Program Fees / Requirements

- SkillsUSA Membership \$26 (Optional)

Program Location

- Course(s) available at KCAL (Only)

LOOK AROUND YOU. You are likely inside a room in a building, maybe your school. You are in a structure that started with an idea in an architect's head. He or she imagined how tall it would be, how many rooms it would hold, and where the walls and doorways would stand. The architect drew up plans to guide teams of people in constructing the building: plumbers, electricians, masons, roofers, framers, and so on. Once the building is finished, another team of people manage and maintain it; keeping equipment up and running, the spaces clean and organized, and the windows glistening. These are the people who work in the Architecture & Construction cluster. If you like to design and build, tinker with tools and technology, or decorate homes and offices with flooring, paint, furniture and art, then Architecture & Construction could be the right career cluster for you.

Principles of Architecture (TEDS: 13004210 / KISD: 81200)

Principles of Architecture provides an overview to the various fields of architecture and interior design. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, educational, and career information to set and achieve realistic career and educational goals. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom such as communications; problem solving and critical thinking; Information Technology Applications. Systems; safety, health, and environmental; leadership and teamwork; ethics and legal responsibilities; employability and career development; technical skills; and reading technical drawings.

Architectural Design I (TEDS: 13004600 / KISD: 81210)

In Architectural Design I, students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Architectural design includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes. Class is taught at the Keller Center for Advanced Learning.

Architectural Design II (TEDS: 13004700 / KISD: 81211)

In Architectural Design II, students gain advanced knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Advanced Architectural design includes the advanced knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes. Class is taught at the Keller Center for Advanced Learning.

Practicum in Architectural Design (TEDS: 13004800 / KISD: 81213)

Practicum in Architectural Design is an occupationally specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study. Instruction may be delivered through laboratory training or through career preparation delivery arrangements. Class is taught at the Keller Center for Advanced Learning.

Career	High School	On the Job Training	Certificate	Associate's Degree	Bachelor's Degree	Advance College Degree	Average Annual Salary	Possible Majors for this Pathway
Architect					x	x	\$76,930	<ul style="list-style-type: none"> • Drafting • Industrial Technology • Civil Engineering • Architecture • Construction Management
Landscape Architect					x		\$63,480	
Drafter				x			\$53,480	
Surveying Technician	x	x					\$42,450	
Structural Engineer					x		\$65,397	
Civil Engineer					x		\$63,758	
Construction Manager					x		\$74,259	
Architectural Intern					x		\$43,515	
Historic Building Inspector					x		\$53,993	