

Principles of Architecture

Local Course #: 81200

State Course ID: 13004210

Course Description:

Principles of Architecture provides an overview of 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.

Link to TEKS:

[https://texas-sos.appianportalsgov.com/rules-and-meetings?\\$locale=en_US&interface=VIEW_TAC_SUMMARY&queryAsDate=08%2F05%2F2025&recordId=225425](https://texas-sos.appianportalsgov.com/rules-and-meetings?$locale=en_US&interface=VIEW_TAC_SUMMARY&queryAsDate=08%2F05%2F2025&recordId=225425)

First 9 Weeks Major Topics:

1. Professional Applications (Professional Letter, Signature, Email)
2. Presentation Applications (Design Applications such as Canva, Adobe)
3. College and Career Readiness
4. Destination Study - Intro. to Architecture
5. Elements and Principles of Design
6. Architectural Features and Styles
7. Architectural Styles Project

Second 9 Weeks Major Topics:

1. Color Theory
2. Introduction to Perspective Drawing (1 Point, 2 Point, 3 Point)
3. Architectural Lettering
4. Architectural & Construction Mathematics (Fractions, Feet/Inches, General Math)
5. Architectural & Construction Measuring (Ruler, Tape Measure)

6. Using an Architectural Scale

Third 9 Weeks Major Topics:

1. Using a Tape Measure (Measuring Spaces)
2. Understanding Elevations in Design
3. How to Read and Sketch Floor Plans
4. Floor Plan Symbols
5. Residential Room Sizes
6. Traffic Patterns/Furniture Clearance Patterns
7. Shed Project

Fourth 9 Weeks Major Topics:

1. Wood Framing
2. Roof Systems
3. Introduction to Revit
4. Revit Project