LEANDER ISD
CAREER AND TECHNICAL EDUCATION

ARCHITECTURE AND CONSTRUCTION

BUSINESS AND INDUSTRY

ARCHITECTURAL DESIGN: ARCHITECTURE

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.

Texas Data: Collected by TEA October 2019

INDUSTRY-BASED CERTIFICATION OPPORTUNITIES
AutoDesk Certified User - Revit and AutoCad

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%
Civil Engineers	$89,960	2,394	12%
Construction Managers	$87,402	2,401	14%

RECOMMENDED COURSE SEQUENCE

LEVEL 1 Principles of Architectural Design

LEVEL 2 Architectural Design I

LEVEL 3 Architectural Design II

LEVEL 4 Practicum in Architectural Design

NOTE: See reverse for additional course sequence options and endorsement requirements. Course descriptions and details can be found in the course catalog.

WORK-BASED LEARNING EXPERIENCES	CAREER AND TECHNICAL STUDENT ORGANIZATIONS
Industry Guest Speakers; Field Trips; Industry Observations/Interviews; Industry Collaborative Projects; Internships.	SkillsUSA; National Technical Honor Society (NTHS)

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.

Non-Discrimination Statement

It is the policy of Leander ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its Career and Technology Education Programs, services, or activities. Leander ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.
Es norma de Leander ISD de no discriminar por motivos de raza, color, origen nacional, sexo o impedimento, en sus programas, servicios o actividades vocacionales. Leander ISD tomará las medidas necesarias para asegurar que la falta de habilidad en el uso de la lengua inglés no sea un obstáculo para la admisión o participación en todos los programas educativos y vocacionales.

ARCHITECTURAL DESIGN: ARCHITECTURE

A student may earn a Business and Industry endorsement by completing foundation and general endorsement requirements. Endorsement course options for the Architectural Design program of study are listed below.

4 CREDITS REQUIRED

Required Courses:

- Architectural Design I
- Architectural Design II

Choose additional credits from the following:

- Principles of Architectural Design
- Practicum in Architectural Design
- Interior Design I
- Introduction to Engineering Design
- Principles of Construction (CPHS & GHS)
- Construction Technology (CPHS & GHS)
- Electrical Technology I (LHS)
- Agricultural Mechanics and Metal Technologies
- Professional Communications or Entrepreneurship
- Career Preparation
- Project-Based Research

NOTE: Students who complete the Architectural Design Program of Study requirements are eligible to earn a STEM endorsement by also completing Algebra II, Chemistry and Physics.

INDUSTRY-BASED CERTIFICATION OPPORTUNITIES

The Autodesk Certified User Revit certifications demonstrate entry-level knowledge using building information software for careers in architecture, interior design, and construction management. The certification can accelerate career development, improved productivity, and enhance credibility in the architectural and construction management industries.

An Autodesk AutoCAD Certified User will demonstrate competency in computer-aided design (CAD). The exam covers the basic use of the AutoCAD software as well as basic drafting and design techniques. Individuals who would like to earn an Autodesk AutoCAD certification will show demonstrated mastery in drawing objects with accuracy, modifying objects, using additional drawing techniques, and organizing objects. In addition, students should know how to reuse existing content, annotate drawings, complete layouts and printing and apply basic drawing skills.

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