

» Course Overview

In this course, students will learn various concepts used in the design and architecture field. They will gain an understanding of basic architectural and civil drawings as well as prepare for the Autodesk® Certified User certification in AutoCAD exam. In addition to learning fundamental architectural drawing concepts like creating site plans, floor plans, and electrical plans, students will learn functions of Computer-Aided Drafting (CAD). CAD functions build on the foundation of architectural drawing, using specialized tools for enhancement, layout, and scale. Students will review the essentials of civil drawings including the interpretation and development of topographical illustrations. To round out the course, students will prepare computer-aided drawings to demonstrate utilizing software to perform activities such as drawing site plans, roof plans, and wall sections. Finally, students will be provided an overview of the requirements, structure, and preparation techniques for the Autodesk® Certified User certification in AutoCAD exam.

» **Course Preview Video:** <https://www.pointfuleducation.com/arch-design1-preview-video>

» Course Outline by Module

Module 1	Basic Architectural Drawings Part I	Module 5	Basic Civil Drawings
Module 2	Basic Architectural Drawings Part II	Module 6	Preparing Computer-Aided Drawings (CAD) Part I
Module 3	Basic Computer-Aided Drafting Functions Part I	Module 7	Preparing Computer-Aided Drawings (CAD) Part II
Module 4	Basic Computer-Aided Drafting Functions Part II	Module 8	Preparing for the Autodesk Certified User (CAD) Exam

» Instructional Components

Pointful Education Courses are structured in a consistent, research-based format utilizing multiple pedagogical concepts such as Understanding by Design, Growth Mindset, and Video and Project-based learning. Through the use of these pedagogical concepts, Pointful Education maintains a consistent and engaging course structure that supports student-centered learning.

» Certification

This course prepares students for the Autodesk® Certified User in AutoCAD Certification Exam. To learn more select the following link:

https://www.certiport.com/Portal/Common/DocumentLibrary/Autodesk_Data_Sheet.pdf

Course Structure



Instruction
44%



Projects
9%



Reflections
18%



Concept Checks
11%



Exams
10%



Written Assignments
9%