

### >> 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 Outline by Module

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

### >> Course Elements

-  Video Instruction
-  Interactives
-  Reading
-  Projects
-  Reflections
-  Concept Checks
-  Quizzes and Exams
-  Written Assignments



### >> 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.

### >> Course Materials

This course requires specific external software. The purpose is to provide students with hands-on learning opportunities in which they gain experience working with the software related to the course. This will ensure students have the necessary experience and task-based practice required for success on the certification exam. Course Materials: AutoCAD