



AutoCAD Architecture Fundamentals

Course Length: 3 Days

In addition to the standard AutoCAD® software tools, the AutoCAD® Architecture software offers a host of features that greatly increase the speed and efficiency of architectural drawings. The software is designed to work from first concept (conceptual design or mass model) through to design development, working drawings, and facility maintenance.

AutoCAD® Architecture Fundamentals focuses on the design development, construction documentation, and visualization features of the AutoCAD Architecture software (the basic tools that the majority of students require when working).

Topics Covered:

- Creating basic floor plans with walls, doors, and windows.
- Creating specialty objects, such as column or ceiling grids, stairs & railings.
- Adding roofs and floor slabs.
- An introduction to Projects and the Project Navigator.
- Adding furniture, fixtures, and equipment.
- Creating details.
- Displaying elevations, sections, and perspectives.
- Marks, tags & schedules, and other documentation.
- Drawing cameras, adding lights, and basic rendering.

Prerequisites:

Students should have a solid background in AutoCAD because AutoCAD tools and concepts are essential for working with AutoCAD Architecture. In particular, students should be familiar with the basic 3D viewing tools (preset views, 3D Orbit, and Visual Styles), layouts, Paper Space/ Model Space issues, and external references (XREFS). A working knowledge of the Ribbon interface is helpful but not essential, as pertinent tools are covered in the training course.

Course description shown for AutoCAD Architecture. Topics, curriculum, and/or prerequisites may change depending on software version.

Learning Guide Contents

Chapter 1 Introduction to AutoCAD Architecture

- Understanding the Software
- User Interface
- Viewing in 3D

Chapter 2 Basic Wall Construction

- Adding Walls
- Modifying Walls
- Creating Curtain Walls

Chapter 3 Creating Wall Openings

- Adding Wall Openings
- Accessing Styles with Style Manager
- Modifying Wall Openings

Chapter 4 Structural Design

- Creating Custom Column Grids
- Modifying Custom Column Grids
- Annotating Custom Column Grids
- Working with Structural Members
- Working with Standard Column Grids (Optional)

Chapter 5 Reflected Ceiling Plans

- Creating Ceiling Grids
- Modifying Ceiling Grids
- Inserting Ceiling Fixtures

Chapter 6 Vertical Circulation

- Adding Stairs
- Modifying Stairs
- Adding Railings
- Modifying Railings

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Chapter 7 Floors

- Creating Floor Slabs
- Modifying Floor Slabs
- Editing Slabs Using Slab Tools

Chapter 8 Roofs

- Creating Roofs
- Modifying Roofs
- Working with Roof Slabs
- Modifying Roof Slabs

Chapter 9 Fixtures, Furnishings, and Equipment

- Furnishing the Building Design
- Adding Blocks to the Tool Palettes

Chapter 10 Introduction to Drawing Management

- Project Concepts
- Using the Project Navigator

Chapter 11 Building Model Views

- Boundary and Detail Callouts
- Elevations and Building Sections
- Modifying Callout Objects
- Using Live Sections

Chapter 12 Annotation

- Drawing Scale for Annotation
- Adding Text and Leaders
- Dimensioning in the Software
- Other Annotation Tools

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Chapter 13 Scheduling

- Adding Door and Window Tags
- Editing Tag Data
- Adding Schedules
- Editing Schedules

Chapter 14 Creating Details

- Creating Details from Tool Palettes
- Using the Detail Component Manager
- Annotating Details with Keynotes

Chapter 15 Visualization

- Working with Cameras
- Managing Camera Views
- Specifying Light Sources
- Rendering Concepts

Appendix A Visual Styles and Animation

- Creating Visual Styles
- Animating with ShowMotion
- Motion Path Animations

Appendix B Project Practices

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Cancellation Policy

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- For Customer cancellations when written notice is received (i) at least ten (10) business days in advance of the class, the Customer is entitled to a full refund of its payment or reschedule enrollment, (ii) less than ten (10) business days, Customer shall not be entitled to a refund, but shall receive a class credit to be used within three (3) months of the date of the original class.
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