



# OVERVIEW OF COURSE

## Autodesk 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).

The main topics covered include:

- 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 the AutoCAD software because AutoCAD tools and concepts are essential for working with the AutoCAD Architecture software. 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 guide.



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### 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

### Chapter 7 Floors

- Creating Floor Slabs



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- 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

## Chapter 13 Scheduling

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

## Chapter 14 Creating Details

- Creating Details from Tool Palettes



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- 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

## Cancellation Policy

The following cancellation policy shall apply to all training engagements, Live Online, Onsite, Consulting Services and Dedicated/ Custom Training:

- Company reserves the right to reschedule or cancel the date, time and location of its class at any time. In the event that a Training Class is cancelled by Company, Customer is entitled to a full refund. Company shall not be responsible for any other loss incurred by Customer as a result of a cancellation or reschedule.
- For Customer cancellations when written notice is received 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 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.
- Student substitutions are acceptable with at least two (2) days prior notice to the class, provided substitution meets course prerequisites and is approved by Company's Training Coordinator. ([training@dezignext.com](mailto:training@dezignext.com))
- For all Training orders, cancellation notices must be submitted to [training@dezignext.com](mailto:training@dezignext.com). Company is not responsible for any error in the delivery of the email notice. In the event of any reschedule of Onsite training and/or Consulting Services and/or Dedicated/Custom Training by Customer, Company will invoice Customer for all non-cancellable travel expenses.

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