

# REVIT FUNDAMENTALS

## 3 DAY CLASS



## COURSE OUTLINE

Modeling with Revit, the industry standard software in BIM (Building Information Modeling) for parametric building design and documentation, students will learn how to model their projects in 3D. We begin our three-day course by learning the fundamental features of Revit Architecture, progressing through Schematic Design, Design Development, and Construction Documentation, finishing with Design Visualization and Project Management.

### CLASS DURATION: 3 DAYS TOPICS

#### Introduction to BIM and Autodesk Revit

- BIM and Autodesk Revit
- Overview of the Interface
- Starting Projects
- Viewing Commands

#### Basic Sketching and Modify Tools

- Using General Sketching Tools
- Editing Elements
- Working with Basic Modify Tools
- Working with Additional Modify Tools

#### Setting Up Levels and Grids

- Setting Up Levels
- Creating Structural Grids
- Adding Columns
- Linking and Importing CAD Files

#### Modeling Walls

- Modeling Walls
- Modifying Walls
- Working with Doors and Windows
- Inserting Doors & Windows
- Loading Door & Window Types from the Library
- Creating Additional Door & Window Sizes
- Working with Curtain Walls
- Creating Curtain Walls
- Adding Curtain Grids
- Working with Curtain Wall Panels
- Attaching Mullions to Curtain Grids

#### Working with Views

- Setting the View Display
- Duplicating Views
- Adding Callout Views
- Elevations and Sections

#### Creating Ramps Creating Construction Documents

- Setting Up Sheets
- Placing and Modifying Views on Sheets
- Printing Sheets

#### Adding Components

- Adding Components
- Modifying Components

#### Modeling Floors

- Modeling Floors
- Creating Shaft Openings
- Creating Sloped Floors

#### Modeling Ceilings

- Modeling Ceilings
- Adding Ceiling Fixtures
- Creating Ceiling Soffits

#### Modeling Roofs

- Modeling Roofs
- Creating Roofs by Footprint
- Establishing Work Planes
- Creating Roofs by Extrusion

#### Modeling Stairs, Railings, and Ramps

- Creating Component Stairs
- Modifying Component Stairs
- Working with Railings
- Sketching Custom Stairs

#### Annotating Construction Documents

- Working with Dimensions
- Working with Text
- Adding Detail Lines and Symbols
- Creating Legends

#### Adding Tags and Schedules

- Adding Tags
- Adding Rooms and Rooms Tags
- Working with Schedules

#### Creating Details

- Setting Up Detail Views
- Adding Detail Components
- Annotating Details
- Keynoting and Keynote Legend