

## CLASS OBJECTIVE

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The Revit 101 - Introduction to Revit class provides a foundation for the day-to-day usage of Revit by introducing its key concepts and features. The focus of this course is on Revit's "modeling" tools and how to use Revit to produce model & construction documentation. After completing the class, even though there is still much to learn about Revit, attendees will be able join a project team using Revit and assist with the completion of the project. Our Revit 201 class continues where this class finishes, covering tools not covered here and going into additional depth on many topics.

## CLASS PRE-REQUISITE

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Students need to be comfortable with computer PC basics using Microsoft windows. The class assumes attendee will have familiarity with architectural construction documents. No Prior Revit or AutoCAD experience is necessary. To get the most out of the class we recommend reviewing Autodesk Free "getting started" tutorials prior to the session.

<https://knowledge.autodesk.com/support/revit-products/getting-started?sort=score>

## SESSION 1

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- Workshop 1 – Getting Started – Overview and Key Concepts
  - Using Zoom for the class
  - Opening Projects, File Versions & Types
  - Screen Review - Application Menu, Quick Access Toolbar, Ribbon, Options Bar, Project Browser, Properties, Status bar
  - Switching Views – Project Browser and View Mark Hyperlinks
  - Navigation: Zooming-Panning-Orbiting
  - Selecting Objects - Parameters & Relationships
  - Revit Organization - Categories\Families\Types, Modeling Vs Drafting
  - Understanding Worksharing & Worksets
- Workshop 2 -Getting Started – New Project and Walls
  - Starting a New Project & Templates
  - Adding Walls
    - Draw Tools, Location Line, Wall Height
    - Dimensioning to Position Walls
    - Wall Types & Wall Structure
  - Align, Move, Copy, Rotate, Trim\Extend, Mirror, Copy\Paste

## SESSION 2

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- Workshop 1 – Levels & Grids & Columns
  - Adding Levels
  - Grids and Structural / Architectural Columns
    - 2D vs. 3D Grids
    - Interaction between columns and walls
- Workshop 2 – Doors Windows and Openings
  - Adding Doors & Windows
  - Editing Parameters
  - Loading Families
  - Wall Openings & Edit Profile

**SESSION 3**

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- Workshop 1 -Component Families
  - Adding Components - Plumbing fixtures, Equipment, Furniture, etc.
  - Loading Families
- Workshop 2 - Intro to Creating Loadable Families
  - Categories & starting from templates, Hosting vs. Non-hosted
  - Creating Geometry
  - Reference Planes
  - Dimensional Parameters

**SESSION 4**

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- Workshop 1
  - Room Objects and Room Tags
  - Intro to Schedules - Room Schedule, Sheet List, Door Schedule
- Workshop 2
  - Placing & Modifying Floors
  - Modifying Floor Types
  - Ceilings, Soffits, Lights Fixtures, Diffusers

**SESSION 5**

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- Workshop 1
  - Roofs by Footprint – Flat and Pitched
  - Seeing Inside your Model
    - Visibility Graphics, Building Sections, Section Box
- Workshop 2
  - Intro to Stairs and Railings (Egress Stairs)
    - Placing stairs and railings

**SESSION 6**

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- Workshop 1
  - Adding Annotation - Notes, Dimensions, and other Symbols.
  - Intro to 2D Detailing
    - Model Based Details
  - Drafted Views, Linework, Detail Components, Filled Regions, Linking Drafted views to callouts
- Workshop 2 - Revit Views & Controlling Graphics
  - Revit Default Line Weights, Object Styles, Materials
  - Creating Various Plan Types - Duplicate Views & New View
    - Overall Plan, Partial Floor Plans, Colorized Floor plans etc.
  - View Properties - Scale, Detail Level, VG Overrides, Underlay, Cropping, View Range
  - Sheets & Plotting