

# Revit® Architecture for Residential

This class is designed to be three days and is the introductory class for persons desiring to learn Revit® Architecture for single-family residential home design. Participants in this class will receive a custom Revit residential template and families developed by Doug Bowers Consulting. The student should have a working knowledge of computers.

## Learning Objective

Using the Revit® software, the participant will learn the basics of the software, such as the interface, placing objects, creating levels and views, annotating the project, and creating sheets.

## Course Outline

- ✓ **Introduction to BIM and Autodesk Revit®**
  - Overview of the Interface
  - Standard Terminology
  - Starting Projects
  - Viewing Commands
- ✓ **Basic Drawing and Modify Tools**
  - Using General Drawing Tools
  - Working with Basic Modify Tools
  - Working with Additional Modify Tools
- ✓ **Setting Up Levels**
  - Setting up and Modifying Levels
- ✓ **Modeling Walls**
  - Modeling Walls
  - Creating Additional Wall types
- ✓ **Working with Doors and Windows**
  - Inserting Doors and Windows
  - Creating Additional Door and Window Sizes
- ✓ **Creating Structural System**
  - Using Beam Systems for Floor Framing
  - Using Beam Systems for Roof Framing
- ✓ **Working with Views**
  - Duplicating Views
  - Adding Callout Views
  - Setting the View Display
  - Elevations and Sections
- ✓ **Adding Components**
  - Adding Furniture, Plumbing Fixtures, Appliances and other Components
- ✓ **Modeling Floors**
  - Modeling Floors
  - Creating Floor Types
  - Showing Floor Finishes
- ✓ **Modeling Ceilings**
  - Modeling Ceilings
  - Adding Ceiling Fixtures
  - Creating Ceiling Soffits
- ✓ **Modeling Roofs**
  - Modeling Roofs
    - Hip, Gable, Clipped Gable, Gambrel
  - Cleaning Up Wall and Roof Intersections
  - Creating Roof Types
  - Address Varying Roof Lines
  - Adding Soffits
  - Adding Gutters
- ✓ **Vertical Circulation**
  - Creating and Modifying Component Stairs
  - Working with Railings
  - Sketching Custom Stairs
- ✓ **Creating Construction Documents**
  - Setting Up Sheets and Placing Views
  - Creating Floor Plans Showing Ceiling Info
  - Creating Presentation Plans
- ✓ **Annotating Construction Documents**
  - Working with Dimensions
  - Working with Text
  - Adding Detail Lines and Symbols
  - Creating Legends
- ✓ **Adding Tags and Schedules**
  - Adding Door Tags
  - Adding Rooms and Tags
  - Working with Schedules
- ✓ **Creating Details**
  - Setting up Detail Views
  - Adding Detail Components
  - Annotating Detail

The instructor may vary the topics and outline depending on the students participating in the class or other situations.