

Revit® Architecture 2017 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® 2017 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.