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# Revit Architecture

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## Course Description

In this hands-on course students use Revit Architecture to learn about Building Information Modeling (BIM) and the tools for parametric building design and documentation. During this three-day course students learn about the fundamental features of Revit Architecture, modeling tools, annotating, and construction documentation

The doors open at 8:45 a.m. Class begins at 9:00 a.m. and ends at 5:00 p.m. with two fifteen minutes breaks and a one hour lunch. We have bagels and coffee served in the morning upon arrival. A book and a certificate of completion are included in this fee.

## Objectives

The primary objective of this course is to teach students the concepts of building information modeling and introduce the tools for parametric building design and documentation using Revit Architecture.

After completing this course, student should be able to:

- Describe the benefits of Building Information Modeling (BIM).
- Use the fundamental features of Revit Architecture.
- Use the parametric 3D design tools to design projects.
- Create detailing and drafting views.
- Create construction documentation.

## Who Should Attend

This courseware is designed for new users of Revit Architecture

## Prerequisites

Before attending this course, students should have a working knowledge of the following:

- Architectural design, drafting, or engineering principles.
- Microsoft Windows

## **Course Outline**

### **Revit Architecture Basics**

- Exploring the User Interface
- Navigating throughout a Revit Project
- Starting, Opening and Saving a Revit Project
- Editing Elements

### **Starting a Design**

- Creating and Modifying Levels
- Working with Grids

### **The Basics of the Building Model**

- Adding Structural Columns
- Adding and Modifying Walls
- Creating Custom Wall Types
- Adding and Modifying Doors and Windows

### **Developing the Building Model**

- Creating Curtain Walls
- Creating and Modifying Floors
- Adding Stairs and Railings
- Adding and Modifying Ceilings
- Adding and Modifying Roofs

### **Loading Additional Building Components**

- Adding and Modifying Component Families

### **Using Dimensions and Constraints**

- Working with Dimensions
- Applying and Removing Constraints

### **Detailing and Drafting**

- Creating Callout Views
- Working with Text and Tags
- Working with Detail Views
- Working with Drafting Views

### **Viewing the Building Model**

- Managing Views
- Controlling Object Visibility
- Working with Section and Elevation Views
- Creating and Modifying 3D Views

### **Schedules**

- Creating and Modifying Schedules
- Creating Rooms and Room Schedules
- Creating Legends and Keynotes

### **Presenting the Building Model**

- Creating New Sheets
- Adding Views to Sheets
- Working with Title Blocks
- Printing Drawing Sheets and Sheet Sets

### **Template Creation**

- Creating an RVT File
- Adding standards to the RVT File
- Saving & reusing the RVT File

**Note:** The suggested course duration is a guideline. Course topics and duration may be modified by the instructor based upon the knowledge and skill level of the course participants