



# Autodesk Revit: Family Creation for Architecture

## Course Length: 1 Day

Building Information Modeling (BIM) is an approach to the entire building life cycle. Autodesk Revit is a powerful BIM program for architecture that supports the ability to coordinate, update, and share design data with team members throughout the design construction and management phases of a building's life. Families are the backbone of Autodesk Revit. They are the elements you add as you model a building and its services, as well as the tools you use as you are annotating views.

The objective of this course is to enable users who have worked with the software to expand their knowledge in creating custom system, in-place, and component families.

This training course contains practices that are specific to the architecture discipline.

### Topics Covered:

- Understand Create custom wall, roof, and floor types.
- Set up a component family file with a parametric framework.
- Create family geometry.
- Create family types.
- Modify the visibility of components and incorporate additional family items, such as controls and nested components.
- Create specific families, including in-place families, profiles, annotations, and parameters.

This course also contains architectural discipline-specific practices for families, including doors, windows, and railings.

### Prerequisites:

You should be comfortable with the fundamentals of the Autodesk Revit software, as found in the Autodesk Revit: Fundamentals for Architecture course. Knowledge of basic techniques is

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assumed, such as creating standard elements, copying and moving elements, and creating and working with views. Information on Collaboration Tools, Conceptual Design, and Site and Structural Design is covered in other courses.

## Learning Guide Contents

### Introduction to Revit Families

#### Chapter 1: Custom System Families

- 1.1 Creating Wall, Roof, Floor, and Ceiling Types
- 1.2 Vertically Compound Walls
- 1.3 Stacked and Embedded Walls

#### Chapter 2: Component Family Concepts

- 2.1 Creating Component Families
- 2.2 Creating the Parametric Framework
- 2.3 Creating Family Elements
- 2.4 Creating Family Types

#### Chapter 3: Advanced Family Techniques

- 3.1 Additional Tools for Families
- 3.2 Visibility Display Settings

#### Chapter 4: Additional Family Types

- 4.1 Creating 2D Families
- 4.2 Creating Line-based Families
- 4.3 Creating In-Place Families
- 4.4 Working with Shared Parameters

#### Chapter 5: Creating Architectural-Specific Families

- 5.1 Creating Custom Doors and Windows
- 5.2 Creating Angled Cornices and Copings
- 5.3 Creating Custom Railings

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