

## Revit Structure – Advanced

With Revit Structure, engineers and designers can integrate a multi-material physical model with an independently editable analytical model for structural analysis, design, and documentation. Parametric change management technology coordinates all aspects of the model, keeping data, views, and documentation in sync and up-to-date.

After completing this course students will be able to create custom families and manage a library of typical details, add 3D rebar to beams and columns, and add reinforcement to walls and slabs; work with the Family Editor to create and manage structural design objects; modify open web joists and create trusses; develop and manage structural analysis information; and share data with other Revit-based or AutoCAD-based products.

### Who should attend?

This is a fast-paced course for experienced designers and engineers who currently use Revit Structure.

### Prerequisites

Students should complete Revit Structure Essentials or have equivalent knowledge of the software prior to taking this class. Students should have a working knowledge of the Microsoft Windows environment.

### Questions?

Please call us at 800-336-3375.

### Course Outline

#### Working with Detail Components

- Creating Component Families
- Managing Detail Groups
- Managing Detail Libraries

#### Working with Reinforcement

- 2D Rebar VS 3D
- Revit Extensions

#### Working with Revit Family Editor

- Composite Floor Slab Profiles
- Extrusion & Sweep Geometry
- 3D Gusset & Base Plates
- Stepped Footing

#### Creating & Working with Truss Objects

- Making a New Truss Family
- Working with Trusses & Roots

#### Working with Revit's Analytical Tools

- Boundary Conditions
- Adding Loads & Load Cases
- Creating Load Combinations
- Adjusting Analytical Geometry
- Autodesk 360 Cloud Analysis Tools
- Linking to Structural Analysis Overview

#### Advanced Modeling Topics

- Sloped Beams / Columns
- Phasing
- Worksets
- Key Plan
- Custom Parameters