

Revit Architecture Intermediate

Three-part course including Conceptual Design & Visualization, Collaboration Tools, and BIM Management

Revit Architecture: Conceptual Design & Visualization

Overview

As architects and designers start a project, they frequently think about the overall massing of a building or the area of the footprint. This course, using Revit Architecture's powerful Building Information Modeling (BIM) engine, covers tools for creating mass elements that can be modified into many shapes. Students then apply walls, roofs, and floors applied to the mass elements. This course also covers space planning tools for setting up areas for rooms and also applying colors to them to show the connections. For presentations and analysis, this course shows you how to create and render perspective views and create walkthroughs and solar studies.

Duration: 8 hours

Prerequisites

Students who enroll in this course should be comfortable with the fundamentals of Revit as taught in the Revit Architecture Fundamentals class. Knowledge of basic techniques is assumed, such as creating walls and roofs, copying and moving objects, creating and working with views, etc.

Fundamental Topics

- Create In-Place Conceptual Mass elements and Conceptual Mass families.
- Create building elements from massing studies.
- Use Rooms and Areas for space planning and analysis.
- Create perspectives, walkthroughs, and solar studies.
- Understand the concepts of rendering and lighting.

Revit Architecture: Collaboration Tools

Overview

Revit Architecture is a Building Information Modeling (BIM) tool, which can be used by more than one person working on a new project. This is an important feature in collaboration within a project, between projects, and with other users, firms, and disciplines.

The objective of the Revit Architecture Collaboration Tools course is to enable students who have a basic knowledge of Revit to increase their productivity while working with other people on a team, either in the same firm or with other firms, and while working with Revit files or other CAD files.

Duration: 8 hours

Prerequisites

Students who enroll in this course should be comfortable with the fundamentals of Revit as taught in the Revit Architecture Fundamentals class. Knowledge of basic techniques is assumed, such as creating walls, roofs, copying and moving objects, creating and working with views, etc.

Fundamental Topics

- Set up project phasing.
- Create and display a variety of design options.
- Use groups.
- Link Revit files.
- Import and export files, including exporting for energy analysis.
- Understand, use, and set up worksets.
- Use multi-discipline coordination.

Revit Architecture: BIM Management

Overview

Building Information Modeling (BIM) is an approach to the entire building life cycle. Revit Architecture is a powerful BIM program 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. A key component in managing the BIM process is to establish a company foundation for different types of projects by creating standard templates and custom elements. Having this in place makes the process of any new project flow smoothly and efficiently.

The objective of the Revit Architecture BIM Management course is to enable students who have worked with Revit to expand their knowledge in setting up office standards with templates that include annotation styles, preset views, sheets, and schedules, as well as creating custom element types and families.

Duration: 8 hours

Prerequisites

Students who enroll in this course should be comfortable with the fundamentals of Revit as taught in the Revit Architecture Fundamentals class. Knowledge of basic techniques is assumed, such as creating walls, roofs, and other objects; copying and moving objects; creating and working with views; etc.

Fundamental Topics

- Create custom templates with annotation style, title blocks, and custom element styles.
- Create schedules, including material takeoff schedules with formulas.
- Create custom wall, roof, and floor types.
- Set up a family file.
- Create family geometry.
- Create family types.
- Create specific families, including custom doors and windows, in-place families, profiles, railings, and shared parameters.