

Revit Architecture 2011 Site & Structure Design

Course Description: Revit Architecture's main purpose is to design buildings – walls, doors, floors, roofs, and stairs. However, architects also frequently need to add site and structural information. This course covers the elements and tools in Revit Architecture that are used to create topographic surfaces for site work and to add structural elements..

Topics Covered:

For Site, learn how to:

- Create topographic surfaces
- Add property lines and building pads
- Modify toposurfaces with subregions, splitting surfaces and grading the regions
- Annotate site plans and add site components
- Work with Shared Coordinates

For Structural, learn how to:

- Create structural grids and add columns
- Add foundation walls and footings
- Add beams and beam systems
- Create framing elevations and add braces
- Copy and monitor elements across disciplines
- Check Interferences

Prerequisites: Students should be comfortable with the fundamentals of Revit as taught in the Revit Architecture Fundamentals course and have knowledge of basic techniques.

Course Contents:

Chapter 1 Site Design

- 1.1 Creating Topographical Surfaces
- 1.2 Property Lines and Building Pads
- 1.3 Modifying Toposurfaces
- 1.4 Annotating Site Plans
- 1.5 Site Components
- 1.6 Shared Positioning

Chapter 2 Structural Tools

- 2.1 Structural Basics
- 2.1 Foundations Plans
- 2.3 Framing Plans and Beams
- 2.4 Framing Elevations and Braces
- 2.5 Coordinating across Disciplines