COURSE SYLLABUS

Introduction to Revit

Master the fundamentals of Revit with this comprehensive introductory course. Learn to create professional 3D models and construction documents using industry-leading tools and workflows.

Group classes (NYC) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://www.graduateschool.edu/courses/introduction-to-revit-course



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Course Outline

1: UI and Basics

- Revit concepts: file types, parametric objects, bi-directional associations, and the Category/Family/Type/Instance hierarchy
- Exploring the User Interface: Ribbon, Properties Palette, Type Selector, Project Browser, and View Control Bar
- Navigating a project: Zoom, Pan, 3D Orbit, and managing views
- Understanding Floor Plan views, View Range, and Callouts
- Visibility/Graphic Overrides, Object Styles, Detail Levels, and Line Weights
- Elevation, Section, and 3D views including Perspective cameras and the Section Box

2: The Habitat House

- Project setup: Levels, datums, and wall Location Lines
- Drawing exterior and interior walls, creating new wall types with Edit Type and Duplicate
- Using Aligned Dimensions and the Tab key for precise placement
- Adding doors and windows: hosted families, the Spacebar, the Align tool, and Plan Regions
- Creating floors and a sloped roof by footprint, and attaching walls
- Loading and placing component families from the Imperial Library
- Rooms, Room Tags, dimensions, and Roof Plan annotations
- Creating Sheets, placing views, and printing to PDF

3: The Office Building

- Establishing multiple Levels and placing Grid Lines with the EQ toggle
- Drawing exterior and interior walls using Split, Trim/Extend, Mirror, Offset, and Copy
- Editing wall profiles in 3D and using the Wall Joins tool
- Placing doors and windows across multiple levels with Copy to Clipboard and Paste Aligned
- Drawing curtain walls: Curtain Grids, Mullions, Add/Remove Segments, and storefront doors

4: Floors, Ceilings, and Roofs

- Drawing floor slabs with Draw Lines and Pick Walls methods

- Placing ACT grid and Gypsum Board ceilings and editing materials
- Creating a flat roof with Shape Editing tools for drainage slope
- Roof annotations with Spot Slope and Spot Elevation

5: Stairs, Components, and Groups

- Drawing stairs with automatic riser calculation and mirroring stairwells
- Loading furniture and plumbing fixture families and copying them between levels
- Creating and editing Model Groups for repeating layouts
- Placing Rooms, assigning Departments, and adding Color Fill Legends
- Section cleanup with Join Geometry and soffit elements

6: Graphics, Elevations, and Sheets

- Floor plan cleanup: Object Styles, stair visibility overrides, and Color Fill formatting
- Elevation and 3D graphics: Shadows, Silhouettes, Ambient Occlusion, and material appearance
- Creating presentation-quality Perspective views with Sketchy Lines
- Creating Sheets, arranging views, and adjusting Crop Regions and View Titles
- Final quality check and printing to PDF at scale