COURSE SYLLABUS

# Revit Structure Certification Course (Self-Paced)

Learn Revit Structure to create detailed 3D structural models and seamlessly integrate them into the BIM workflow. This bundle prepares students for the Autodesk Revit Certified User Exam and helps build a strong foundation in structural engineering design.

Group classes in Live Online and onsite training is available for this course. For more information, email corporate@nobledesktop.com or visit: https://www.nobledesktop.com/classes/revit-structure-professional-bundle

hello@nobledesktop.com • (212) 226-4149

## Course Outline

This package includes these courses

- Introduction to Revit (Self-Paced) (30 Hours)
- Intermediate Revit (Self-Paced) (30 Hours)
- Revit Structure I (Self-Paced) (20 Hours)
- Revit Structure II (Self-Paced) (30 Hours)
- Introduction to Navisworks (Self-Paced) (30 Hours)

### Introduction to Revit (Self-Paced)

This beginner-level Revit course offers an in-depth exploration of the interconnections within a Building Information Model using Revit's architectural toolset. The curriculum supports development of a fully integrated 3D model that concurrently produces coordinated 2D documentation—such as floor plans, elevations, and rendered perspectives—while drafting and designing. Instruction commences with a predefined template, proceeding through setup of floor plans and elevations, generation of 3D views, assembly of drawing sheets, and exportation of deliverables to PDF. If you are interested in Revit Certification (also referred to as BIM Certification), we recommend completing the Revit Certification Course series to be fully prepared for the Autodesk Certified User Exam for Revit.

- Describe Primary Revit Concepts and how they relate to Building Information Modeling (BIM)
- Explore the Revit User-Interface
- Design a 3D building model to explain how information is interrelated
- Determine the appropriate workflow to complete tasks within Revit
- Develop a project that includes floors, walls, ceilings, stairs, curtain walls, and roof design to strengthen 3D modeling and 2D documentation skills
- Create presentation-level architectural graphics
- Catalog building information using schedules

## Intermediate Revit (Self-Paced)

This intermediate-level online BIM course delves into advanced project-documentation techniques within Revit Architecture. Building upon an existing model, the curriculum covers scheduling components, family-editor workflows for 2D and 3D content creation, graphic refinement, and assembly of a concise construction–document set. Through hands-on exercises, the course demonstrates how to transform a conceptual model into an interoperable set of construction drawings. If you are interested in Revit Certification (also referred to as BIM Certification), we recommend completing the Revit Certification Course series to be fully prepared for the Autodesk Certified User Exam for Revit.

- Integrate DWG Files to create Revit details
- Tag elements for cost estimation and material take-offs
- Explore the capabilities of design options and how to present different options
- Create 3D parametric families
- Build customized door, material, and room schedules that can be used for construction take-offs
- Explore BIM project Management techniques to keep models efficient and user-friendly

## Revit Structure I (Self-Paced)

You will create and develop an accurate structural model of a real-world, four-story commercial project to learn about structural BIM modeling and to effectively integrate an interactive project with other disciplines.

- Create an accurate structure, for use in all program aspects of designing a project and the construction of a real-world model using Revit Structure
- Develop a project from the very beginning and see its completion through all aspects of BIM modeling
- Gain an understanding of real-world practices for the effective integration of an interactive project with other disciplines

## Revit Structure II (Self-Paced)

Continue the structural project started in Revit Structure I. You will update the Revit Structure model, add annotations, set up detail sheets, create framing elevations, and create a completed set of structural construction documents.

- Continue modeling an accurate structure for use in all program aspects of the project and the construction of a real-world model
- Finish developing and annotating a project from the very beginning
- See the project's completion through all aspects of BIM modeling and drawing production
- Gain an understanding of real-world practices for the effective integration of an interactive project with other disciplines

## Introduction to Navisworks (Self-Paced)

Use Navisworks to integrate Revit, 3D AutoCAD and compatible programs into a 3D model to create clash detection between architectural, structural, MEP and fire-suppression systems.

- Explore the methodologies for integrating Revit, 3D AutoCAD and compatible software programs into a 3D model which can be used to create clash detection between various structural and MEP systems
- Apply workflow strategies for efficient use of integrating various BIM models into clash detection analysis models
- Create timeline animations representing 4D construction modeling and scheduling
- Produce and resolve time-based clash detection reports which will minimize on-site construction change order requests