COURSE SYLLABUS

Revit Certification Online

Gain in-depth expertise in Revit Architecture and prepare for the Autodesk Certified User Exam with this all-encompassing course. Progress from beginner to advanced skills, learning to create 3D models and detailed construction documents using Revit.

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/courses/revit-certification



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Course Outline

This package includes these courses

- Intro to Revit Course Online (30 Hours)
- Intermediate Revit Course Online (30 Hours)
- BIM Construction Documents I Course Online (30 Hours)
- BIM Construction Documents II Course Online (30 Hours)
- BIM Construction Documents III Course Online (30 Hours)

Intro to Revit Course Online

In this beginner course, you'll explore how information is connected throughout a Revit (BIM) model using Revit Architecture tools. Learn to create 3D building models that automatically generate 2D architectural drawings, including floor plans, elevations, and 3D perspectives. You'll work from a pre-made template to build a complete Building Information Model, place views on sheets, and export drawings to PDF. The course provides source Revit files and step-by-step instructional videos to guide you through each stage of the project.

- Understand core Revit concepts and their role in Building Information Modeling (BIM).
- Navigate and utilize the Revit User Interface effectively.
- Build a 3D model to see how project information is connected throughout the design.
- Apply proper workflows to complete Revit tasks efficiently.
- Develop a complete project with floors, walls, ceilings, stairs, curtain walls, and roofs to enhance 3D modeling and 2D documentation skills.
- Produce high-quality presentation graphics for architectural projects.
- Organize and manage building data using schedules.

Intermediate Revit Course Online

In this online intermediate BIM course, you will build on your Revit Architecture skills by learning advanced techniques for

documenting a building project. You'll refine an existing Revit model, explore design options, create custom schedules, develop 2D and 3D parametric families, and produce a streamlined set of construction documents. By the end of the course, you'll be able to transform a conceptual model into a fully integrated and interoperable construction document set.

- Incorporate DWG files to enhance Revit details and drawings.
- Apply element tagging for accurate cost estimation and material take-offs.
- Utilize design options to present and compare multiple design scenarios.
- Develop 3D parametric families for reusable building components.
- Create customized schedules for doors, materials, and rooms to support construction documentation and take-offs.
- Implement BIM project management strategies to maintain efficient, well-organized models.

BIM Construction Documents I Course Online

This online Revit course is the first in a series focused on creating construction documents using Revit Architecture. You'll model a single-story commercial building, import AutoCAD drawings, and create a site model. Then, you'll expand the model with a two-story addition, applying advanced Revit techniques used in real-world AEC workflows.

- Use BIM modeling tools to create an architectural model, including an existing building, partial demolition, and new construction.
- Build topography and create a site plan using external files, incorporating hardscape and landscaping elements.
- Differentiate project phases by visually distinguishing between existing construction and new construction.
- Create professional-quality renderings for presentations and documentation.

BIM Construction Documents II Course Online

You will develop construction documents for the commercial building and site from BIM 301, including sheet drawings, keynotes, detail drawings, and schedules.

- Prepare a complete set of architectural construction documents that integrate site and building models from BIM 301.
- Create progress sets of construction documents, representing 30%, 60%, 90%, and 100% deliverable submittals.
- Produce floor plans, sections, and elevations for sheet layouts.
- Add keynotes to elements of the project model and develop schedules and architectural details extracted from the BIM model.

BIM Construction Documents III Course Online

This course teaches how to use Revit to create 3D models that generate 2D architectural drawings and documentation. You'll begin by designing a small residential building and then progress to a commercial building model. Throughout the course, you'll produce floor plans, elevations, and 3D perspectives with guidance from source Revit files and instructional videos. Your instructor is an Autodesk Certified Instructor and experienced architectural project manager in commercial, medical, and biotech fields.

- Understand core Revit concepts and their relationship to Building Information Modeling (BIM).
- Design a 3D building model to visualize how information is interconnected.
- Develop a project featuring floors, walls, ceilings, stairs, curtain walls, and roof design to enhance both 3D modeling and 2D documentation skills.
- Organize building data effectively using schedules.
- Navigate the Revit user interface and learn the most efficient workflows.
- Create high-quality presentation-level architectural graphics.