

Interior Design Professional Course Bundle

Master the art of interior design for both residential and commercial spaces with a program that blends creativity and technical expertise. Learn to craft detailed floor plans, 3D models, and polished presentations using tools like AutoCAD, Revit Architecture, SketchUp, and Adobe Creative Suite. Gain versatile skills to create functional, visually stunning environments.

Group classes in Live Online and onsite training is available for this course. For more information, email partnerships@vdc.edu or visit: <https://vdc.nobledesktop.com/courses/interior-design-professional-course>



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Course Outline

This package includes these courses

- Blueprint Reading Course - Residential Construction (10 Hours)
- Blueprint Reading Course - Commercial Construction (20 Hours)
- Introduction to AutoCAD (30 Hours)
- Intermediate AutoCAD (30 Hours)
- AutoCAD Construction Documents I (30 Hours)
- AutoCAD Construction Documents II (30 Hours)
- CAD Detailing (20 Hours)
- Introduction to Revit (30 Hours)
- Intermediate Revit (30 Hours)
- BIM Construction Documents I (30 Hours)
- BIM Construction Documents II (30 Hours)
- BIM Construction Documents III (30 Hours)
- Introduction to SketchUp Pro (30 Hours)
- Intermediate SketchUp Pro (30 Hours)
- Introduction to Photoshop (30 Hours)
- Intermediate Photoshop (30 Hours)
- Introduction to Illustrator (30 Hours)
- Intermediate Illustrator (30 Hours)

Blueprint Reading Course - Residential Construction

This is an online blueprint reading class for residential construction projects. Learn from a licensed architect about drawing types, scale and about the relationships between drawings.

- Demonstrate an understanding of the inter-relationship between the drawings included in a set of Construction Documents (blueprints).
- Analyze different drawings and see how scale is presented throughout a set of Construction Documents.
- Evaluate the similarities between all sets of blueprint construction documents submitted for building permits.
- Recognize the need for consistency in presenting information in all types of Construction Document in this online blueprint reading course.

So what is blueprint reading and why is it necessary in the construction industry? Many people in the construction industry can benefit professionally by learning how to read a set of blueprints, also known as construction documents (CDs). “Blueprint” is the historic name for construction documents. Contractors build the design and follow the drawings included in the set of “blueprints.”

The blueprint reading class is 100% online and references a real-world project. VDCI encourages strong online engagement, participation in group discussion forums, and connecting with your instructor and classmates. Join us in the VDCI Student Lounge, where our current students and alumni share information about the industry and help one another.

Blueprint Reading Course - Commercial Construction

This is an online blueprint reading course for commercial projects. Learn from a licensed architect how to read blueprint drawings for a mixed-use commercial project that includes hotel, retail and parking.

- Demonstrate an understanding of the inter-relationship between the drawings included in a set of Construction Documents (blueprints) for a Mixed-Use Commercial project.
- Analyze different drawings and see how information is referenced throughout a set of Construction Documents.
- Evaluate the similarities between all sets of construction documents submitted for building permits.
- Recognize the need for consistency in presenting information in all types of Construction Documents.
- Gain experience understanding how 3D model presentations within a set of construction documents make the construction documents easier to understand the project.

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Introduction to AutoCAD

We start at the very beginning, using AutoCAD to draw drafting symbols, kitchen and bath fixtures, and then create a floor plan. We assemble everything into one sheet file. Learn about Drawing on Layers, Adding Text, Dimensions & Plotting.

- Create drafting symbols, kitchen and bath fixtures, a floor plan and integrate all information into one deliverable sheet file.
- Distinguish the differences required to generate drawings for use as annotation and real-world model components.
- Create and insert blocks and externally reference files and determine the appropriate times to apply those skill sets.
- Master file management, drafting on layers, integrating drawing component files and plotting while creating on the class residential

project.

Intermediate AutoCAD

Use AutoCAD to draw an abbreviated set of construction documents for a residential project: floor plan, roof plan, foundation plan, electrical plan & building elevations. Create, insert and link drawings. Learn the best workflow.

- Create an abbreviated set of construction documents including floor plan, foundation plan, electrical plan and building elevations for a small residential project.
- Create and insert blocks, externally reference files and determine the appropriate times to apply those skill sets to optimize project efficiency.
- Demonstrate layer and file management, external file referencing, use of model/layout environments and user coordinate systems.
- Apply intermediate-level skills including layer management, user coordinate system development, creating sheet layout environments and plotting.

AutoCAD Construction Documents I

Develop titleblock drawings from scratch. Then we draw a floor plan, multi-scale enlarged plans, roof plan and building elevations for a large one-story residence which will be continued in CAD 302.

- Create titleblock and titleblock/drawing label components for a professional office to facilitate development of deliverable sheet files.
- Create floor plan, enlarged plan, roof plan and building elevation of a moderately complex residential project. Includes the development of floor plan, roof plan and elevation notes.
- Successfully integrate referenced files to create construction documents. Demonstrate layer and file management, use of model/layout environments and multi-scale drawing presentation.
- Organize deliverable sheet set to conform to the National CAD Standards.
- Apply intermediate-level skills to create sheet layout environments and plotting.

AutoCAD Construction Documents II

Develop titleblock drawings from scratch. Then we draw a floor plan, multi-scale enlarged plans, roof plan and building elevations for a large one-story residence which will be continued in CAD 302.

- Create building elevations, building sections, wall sections; modify detail drawings; create metes and bounds (Civil) drawing; create relevant deliverable sheet files for a moderately complex residential project. Includes the development of title sheet and appropriate general and keynote legends.
- Successfully integrate referenced files to create construction documents. Demonstrate layer and file management, use of model/layout environments and multi-scale drawing presentations.
- Apply intermediate/advanced-level skills to create sheet layout environments and plotting.
- Organize deliverable sheet set to conform to the National CAD Standards.

CAD Detailing

Create detail drawings. Learn the two dominant CAD standards AEC firms use – making detail drawings from scratch and by referencing and clipping information from other drawings. Learn drawing standards and about organizing your details.

- Create detail drawings pertinent to the course project.
- Create relevant deliverable sheet files.
- Integrate referenced files to create details for construction documents.
- Demonstrate layer and file management, use of model/layout environments and multi-scale drawing presentations.

- Apply intermediate/advanced-level skills to create sheet layout environments and plotting.

Introduction to Revit

In this online Revit course, you will learn how information is interrelated throughout the Revit (BIM) model using the Revit Architecture tools. You will design 3D building models that simultaneously document the project in schedules and in 2D construction documents.

What You Will Learn

- 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 inter-related
- 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.

Course Information

In this Revit course, you will create a Building Information Model starting from a pre-made template, create floor plans, elevations and 3D presentation views, place views on sheets, and print drawing sheets to PDF. You will be provided both source Revit files, which you will use to start your project, as well as videos which will guide you through the learning process. There will be quizzes relating to your project as well as discussion forums in which you will be participating. You will receive a Revit Course Certificate upon completion.

If you are interested in Revit Certification (also referred to as BIM Certification), we recommend considering the Revit Architecture Professional Bundle to be fully prepared for the Autodesk Certified User Exam.

Intermediate Revit

In this online BIM class, you will learn more advanced methods to document a project in Revit Architecture. Topics include scheduling building components, using the family editor to create 2D and 3D components, refining graphics, and creating an abbreviated set of construction documents.

What You Will Learn

- 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.

Course Information

In this online intermediate BIM class, students explore more advanced methods of documenting a building project in Revit Architecture by revising and continue to develop an existing Revit model, exploring design options, creating custom schedules, and learn the skills required to create custom Revit families. By the end of this course, students will be able to turn a conceptual Revit model into integrated and interoperable construction document set.

You will be provided both source Revit files, which you will use to start your project, as well as videos which will guide you through the learning process. There will be quizzes relating to your project as well as discussion forums in which you will be participating. You will receive a Revit Course Certificate upon completion.

If you are interested in Revit Certification (also referred to as BIM Certification), we recommend considering the Revit Architecture Professional Bundle to be fully prepared for the Autodesk Certified User Exam.

BIM Construction Documents I

This online Revit course is the first of two Construction Document courses, using the Revit Architecture tools. You will model an existing single story commercial building (importing AutoCAD drawings as a base) and also create a site model. You will continue learning Revit when you create the model for a significant two-story expansion to that first building model. This project scenario is typical of projects currently being handled by AEC teams who use Revit in their offices.

- Apply BIM modeling tools to create an architectural model, including existing building, partial demolition and a new construction.
- Build topography for a project using existing external files and develop a site plan, including hardscape and landscaping.
- Graphically differentiate phasing of a project from existing construction through new construction.
- Produce renderings suitable for presentation and documentation.

BIM Construction Documents II

You will create construction documents for the commercial building and site created in BIM 301. You will create the sheet drawings and will add keynotes, detail drawings and schedules.

- Prepare a set of architectural construction documents incorporating the site and building models created in BIM 301.
- Develop progress sets of construction documents, reflecting 30/60/90/100 percent deliverable submittals.
- Produce plan, section, and elevation views of the project for sheet layout.
- Keynote elements of the project model. Develop schedules and a limited number of architectural details extracted from the BIM model.

BIM Construction Documents III

This course examines how Revit users design 3D models that simultaneously document the project and generate 2D architectural drawings. This class consists of two main projects; we begin by exploring the Primary Revit Concepts by creating a small residential building, and then build upon and expand our skills by creating a 3D model of a commercial building, and presenting the model using floor plans, elevations, and 3D perspective views.

- Describe Primary Revit Concepts and how they relate to Building Information Modeling (BIM).
- Design a 3D building model to explain how information is inter-related.
- Develop a project that includes floors, walls, ceilings, stairs, curtain walls, and roof design to strengthen 3D modeling and 2D documentation skills.
- Catalog building information using schedules.
- Explore the Revit User-Interface.

- Determine the appropriate workflow to complete tasks within Revit.
- Create presentation-level architectural graphics.

Introduction to SketchUp Pro

Create a Community Park, including topography. Make 3D models of a picnic table, carousel & other site furnishings. Learn to navigate SketchUp and different workflows to create the 3D model of the Park.

- Design massing and preliminary design 3D models.
- Build collaboration
- Determine the most efficient way of accurately and productively working within SketchUp
- Use all of the SketchUp tools to best learn the functionality of the software program.

Intermediate SketchUp Pro

Learn to use the Sandbox tools to create 3D Topography, and to use Project Geo-Location. Model a Clubhouse for the Community Park. Explore new workflows. Include the 3D Warehouse assets & the SketchUp camera tools.

- Use more advanced SketchUp tools to create doors, walls, windows and to detail the interior of buildings.
- Create and edit new materials and add photo textures to SketchUp models from Google Earth.
- Create scenes, generate scene settings and animate those settings in SketchUp.
- Explore creating topography and exporting images and animations.

Introduction to Photoshop

Learn the Adobe Photoshop user interface and the specific tools and features that make Photoshop valuable. Learn major strategies to adjust, correct and supplement photos and graphic projects.

- Recognize the basic tools of Photoshop and appropriately utilize these tools for the desired adjustments and corrections.
- Carry out techniques to adjust, enhance, supplement, and compose files necessary to produce marketing materials.
- Implement proper understanding and organization of files and layers within the layers panel and Photoshop interface.
- Appropriately adjust and export images with variations in image file-type, dimension and color.

Intermediate Photoshop

This Photoshop class reinforces techniques and expands on the Introduction to Photoshop class. You will learn important strategies on how to work successfully, how to plan, design, collaborate and export a project.

- Reinforce the basic tools of Adobe Photoshop and appropriately use these tools for the desired adjustments and corrections.
- Carry out techniques to adjust, enhance, supplement, and compose files necessary to produce marketing materials.
- Incorporate client's determined goals, audience, and branding.
- Assess and adjust image strategy based on determined marketing and design goals.

Introduction to Illustrator

Learn Adobe Illustrator, the industry-standard professional vector drawing program. Gain real-world, practical experience using Illustrator to produce vector art for both print and web design.

- Recognize the basic tools of Illustrator and appropriately use these tools for the desired adjustments and corrections.

- Carry out techniques to adjust, enhance, supplement, and compose files necessary to produce marketing materials.
- Implement proper understanding and organization of files and layers within the layers panel and Illustrator interface.
- Appropriately adjust and export images with variations in image file-type, dimension and color.

Intermediate Illustrator

This class reinforces basic strategies of Introduction to Adobe Illustrator and introduces intermediate techniques for graphic design. Learn additional tools and methods to craft a series of graphic marketing materials.

- Recognize the basic tools of Illustrator and appropriately utilize these tools for the desired adjustments and corrections.
- Carry out techniques to adjust, enhance, supplement, and compose files necessary to produce marketing materials.
- Implement proper understanding and organization of files and layers within the layers panel and Illustrator interface.
- Appropriately adjust and export images with variations in image file-type, dimension and color.