COURSE SYLLABUS

Residential Interior Design Foundations Course Online

Transform ordinary spaces into extraordinary environments with a comprehensive interior design training program that takes you from concept to photorealistic rendering. Build the skills to plan functional layouts, select materials and finishes, apply color and lighting, read construction documents, and model, document, and render professional interiors using Revit, Twinmotion, SketchUp, and Adobe Photoshop.

> Group classes (Live Online) and onsite training are available for this course. For more information, email partnerships@vdci.edu or visit: https://vdci.edu/courses/residential-interior-design-foundations-course



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Course Outline

This package includes these courses

- Residential Blueprint Reading Course Online (10 Hours)
- Intro to Interior Design Course Online (60 Hours)
- Intro to Revit Course Online (30 Hours)
- Intermediate Revit Course Online (30 Hours)
- Revit for Interior Design Course Online (30 Hours)
- Revit & Twinmotion Interior Rendering Course Online (30 Hours)
- Intro to SketchUp Course Online (30 Hours)
- Intermediate SketchUp Course Online (30 Hours)
- Adobe Photoshop Course Online (30 Hours)

Attend this elective course for free (optional).

Intermediate Photoshop Course Online

Residential Blueprint Reading Course Online

Taught by a licensed architect, this course is designed to provide you with a thorough understanding of how to interpret and analyze residential construction blueprints. This comprehensive, instructor-led course is ideal for beginners looking to gain essential skills, as well as for seasoned professionals seeking to improve their ability to collaborate on residential projects.

- 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 Documents in this online blueprint reading course.

Intro to Interior Design Course Online

This course is the perfect starting point for anyone eager to explore the world of interior design. Whether you're considering a career in design or simply wish to enhance your creative skills, this course will provide you with the foundational knowledge and tools to bring your ideas to life.

- Design Principles & Elements: Master the core concepts of color theory, balance, texture, and spatial arrangement
- Space Planning: Learn how to optimize spaces for functionality and aesthetics
- Material and Furniture Selection: Gain insight into choosing the right materials, furniture, and accessories to transform any room
- Design Trends and Styles: Explore various design styles and trends to inspire your unique creations
- Practical Skills: Develop mood boards, room layouts & design mockups to bring your vision to reality

Intro to Revit Course Online

In this beginner-friendly course, you'll dive into how Revit (BIM) links all your project information using the Revit Architecture tools. You'll learn how to design 3D models that automatically generate 2D architectural drawings, including floor plans, elevations, and 3D perspective views. Starting with a pre-made template, you'll build a Building Information Model, create floor plans and elevations, generate 3D views, place them on sheets, and print them to PDF.

- 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 Course Online

In this intermediate BIM class, you'll learn advanced Revit techniques for documenting projects, including scheduling components, creating 2D/3D families, refining graphics, and making a streamlined construction document set. You'll also build on an existing model, explore design options, create custom schedules, and develop custom Revit families. By the end, you'll turn a conceptual model into a complete, integrated construction document set.

- 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 for Interior Design Course Online

This course is tailored to help you perfect your craft and bring your creative ideas to life with incredible accuracy and efficiency. Through step-by-step lessons, engaging exercises, and real-world examples, you'll master essentials like:

- Draft precise floor plans and layouts that are ready to present to clients or integrate with architectural plans
- Transform spaces into fully-rendered 3D designs and explore every detail from lighting to textures
- Learn to create custom furniture and fixtures to make each project uniquely yours
- Save hours and streamline operations with Revit's organizational tools, ensuring seamless collaboration between designers, architects, and contractors
- Produce clean, detailed project documents that meet industry standards and wow your clients

Revit & Twinmotion Interior Rendering Course Online

This course provides a comprehensive introduction to real-time rendering with Revit and Twinmotion, focusing on creating high-quality interior visualizations. You will gain hands-on experience with essential tools and techniques to bring your designs to life with stunning detail and interactivity.

- Navigate and master the Twinmotion interface for seamless project creation.
- Export and link Revit models to Twinmotion while maintaining real-time synchronization.
- Apply materials, lighting, and furniture to enhance the realism of interior spaces.
- Configure natural and artificial lighting to create mood and visual storytelling.
- Create multiple camera views and optimize scene composition for impactful renderings.
- Develop a fully rendered interior scene ready for your portfolio or client presentations.

Intro to SketchUp Course Online

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 Course Online

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.

Adobe Photoshop Course Online

Learn how to retouch and color correct photos, combine images, and create graphics in Photoshop. This course covers the basic and intermediate features of Photoshop such as color/contrast, photo retouching, layers, masks, filters, and saving files for web/video/print.

- Learn to retouch photos and design graphics
- Enhance images by adjusting color, brightness, and contrast
- Use selections to edit specific areas of an image
- Prepare images for digital, web, video, or print formats
- Simplify edits with adjustment layers
- Remove backgrounds using layer masks
- Sharpen and refine photos
- Apply visual effects with filters, shadows, blend modes, and more