AutoCAD 2024 for Interior Designers

Course Description

This course empowers interior designers with the essential skills to utilize AutoCAD 2024 effectively in their design projects. From basic navigation to advanced commands, participants will learn how to create precise floor plans, elevations, annotations, and schedules tailored to industry standards. Through handson tutorials and comprehensive guidance, students will gain proficiency in leveraging AutoCAD as a fundamental tool in their design workflow.

Audience

This course is tailored for interior designers seeking to enhance their technical proficiency and streamline their design process using AutoCAD 2024. Whether beginners or experienced professionals, individuals looking to elevate their drafting skills and deliver precise design solutions will benefit from this course.

Pre-requisite Knowledge/Skills

No prior experience with AutoCAD is required. Basic familiarity with computer operations and a passion for interior design are recommended.

Course Objectives

- Upon completion of this course, participants will be able to:
- Navigate the AutoCAD interface efficiently, distinguishing between Mac and PC platforms.
- Create accurate drawings using fundamental commands such as Line, Circle, and Rectangle.
- Apply advanced drawing techniques including Offset, Trim, Extend, and Lengthen to refine designs.
- Organize drawings effectively using Layers, Blocks, and External References (Xrefs).
- Annotate drawings with Text, Dimensions, and Multileaders to communicate design intent clearly.
- Generate professional layouts for printing, utilizing Model Space, Paper Space, and Viewports.
- Develop comprehensive drawing sets, including schedules and annotations, for effective project documentation.
- Employ additional tools and techniques for advanced drafting, such as creating curves, rendering, and customizing the user interface.

Course Outline

Module 1: Introduction to AutoCAD

- Chapter 1: Getting Comfortable with AutoCAD
 - Introduction to AutoCAD
 - Hand Drawing vs. AutoCAD
 - Clarification and Ground Rules
 - The AutoCAD Screen
 - AutoCAD on the Mac
 - Status Bar icons
 - Toolbars
 - Toolbars on Mac
 - Command Line
 - Options Screen Color & Right-Click
 - Customizing Screen Background Color
 - Customizing Screen Background Color for Mac
 - Customizing Right-Click
 - Customizing Right-Click for Mac
 - Navigation Controls: UCS Icon, Navigation Bar, and View Cube
 - Navigation Controls on the Mac
 - AutoCAD Help
 - Opening & Saving Drawings
 - Using the Pull-Down Menu
 - Selecting New...
 - Selecting Open
 - Selecting Close
 - Selecting Save
 - Selecting Save As...
 - selecting save i
 - File typesLook in:/Save in: and Favorites/Where: for Mac

Module 2: Basic Setup and Commands

- Chapter 2: Setting-up and Intro to AutoCAD
 - Units
 - Three Easy Commands to Help Get You Started
 - Line
 - Circle
 - Erase

- Methods of Selecting Objects
 - Selection Window (LEFT to RIGHT)
 - Crossing Window (RIGHT to LEFT)
 - Removing Objects from the Selection Set
 - Grips
- Zoom & Pan
 - Zoom and Pan Using the Wheel Mouse
 - Typing the Zoom Command

Module 3: Project Tutorial 1: Hotel Suite

- Chapter 3: Hotel Suite Project Tutorial 1
 - Hotel Suite Project
 - Create the basic shell of the suite

Module 4: Advanced Drawing Commands

- Chapter 4: Commands Set 2: Working with Your Drawing
 - Getting Information from Your Drawing
 - Measure
 - Distance
 - Radius
 - Angle
 - List
 - Fillet Creating Round or Sharp Corners
 - Setting the Fillet Radius
 - Trim Option
 - Selecting Objects to Fillet
 - Importance of Pick Location
 - Chamfer Creating Beveled Edges
 - Setting the Chamfer Distance
 - Manipulating Existing Objects
 - Move
 - Copy
 - Rotate
 - Mirror
 - Array Commands
 - Rectangular Array
 - Count Option
 - Spacing Option

Polar Array

Module 5: Layout and Printing

- Chapter 5: Commands Set 3: Laying-out Your Drawing for Printing
 - Model Space & Paper Space
 - Model Space
 - Paper Space
 - Viewports
 - Viewports Tool
 - Re-Sizing a Viewport
 - Access Model Space while in a Layout
 - Create and Modify Model Space Objects in a Layout
 - Adjust the Position and Scale of Model Space Objects in a Viewport
 - Lock the Scale of Layout Viewports
 - Plotting from Paper Space
 - Page Setup Manager
 - Plotting/Printing Your Drawing
 - Model & Layout Tabs
 - Renaming a Layout
 - Renaming Layouts for Mac
 - Adding a Layout
 - Adding a Layout for Mac
 - Add Layout from Template
 - Add Layout from Template for Mac
 - Deleting Layouts

Module 6: Object Management and Organization

- Chapter 6: Commands Set 4: Re-Using Objects and Getting Organized
 - Blocks Treating Multiple Objects as One
 - Making Blocks
 - Inserting Blocks
 - Inserting Blocks on Mac
 - Design Center
 - Using Design Center
 - Bring Blocks into Your Drawing
 - Bring Styles, etc. into Your Drawing
 - Blocks Palette for Mac
 - Adding Block Libraries for Mac

- Bring Blocks into the Drawing on Mac
- Xrefs
 - Attaching a drawing as a Reference
 - Clipping the visible area of a Reference
 - Editing a Reference
 - External Reference Manager Detach and Reload
- Layers
 - Layer Properties Manager
 - Creating a New Layer
 - Visibility of Layers
 - Assigning a Color to the Layer
 - Assigning a Linetype to the Layer
 - Linetype Scale
 - Current Layer
- Properties
 - Changing Object Properties
- Lineweight

Module 7: Project Tutorial 2: Hotel Suite

- Chapter 7: Hotel Suite Project Tutorial 2
 - Create the Bathroom Walls
 - Create the Closet Walls
 - Create the Doors and Windows

Module 8: Annotating and Dimensioning

- Chapter 8: Commands Set 5: Annotating Your Drawing
 - Text
 - Text Style
 - Multiline Text
 - Single Line Text
 - Editing Text
 - Relocating Text
 - Special Characters
 - Scaling Text
 - Dimensions
 - Dimension Style
 - Using Dimensions
 - Linear Dimension

- Aligned Dimension
- Radius Dimension
- Angular Dimension
- Diameter Dimension
- Modifying Existing Dimensions
- Multileader
 - Multileader Style
 - Inserting a Multileader on Your Drawing

Module 9: Project Tutorial 3: Hotel Suite

- Chapter 9: Hotel Suite Project Tutorial 3
 - Create a Layout for Plotting
 - Create a Drawing Format
 - Create a Template Drawing

Module 10: Creating Schedules and Advanced Techniques

- Chapter 10: Commands Set 6: Creating and Editing Schedules
 - Tables Creating a Schedule
 - Creating a Table Style
 - Table Title
 - Table Header
 - Table Data
 - Inserting Tables on the Drawing
 - Editing an Existing Table

Module 11: Creating Curves and Rendering

- Chapter 11: Commands Set 7: Creating Curves and Rendering
 - Arc
 - Ellipse
 - Polyline
 - Spline
 - Hatch
 - Section Views
 - Rendering
 - Gradient Hatch

Module 12: Miscellaneous Techniques and Customization

- Chapter 12: Miscellaneous Techniques, Commands, and Options
 - Helpful Hints
 - Finding the Center of a Rectangle
 - Divide
 - Break & Break at Point
 - Polygon
 - Stretch
 - Scale
 - Reference Option
 - Cut (or Copy)/Paste Using the Clipboard
 - Changing Objects from Model Space to Paper Space
 - Tracing Pictures
 - Circle Options
 - Define the Circle with 3 points
 - Define the Circle with 2 points
 - Tan Tan Radius
 - Rectangle Options
 - Chamfered Corner Rectangle
 - Filleted Corner Rectangle
 - Offset Options
 - AutoCAD Calculates Distance
 - Through Option
 - Drafting Settings
 - Snap and Grid
 - Ortho and Polar
 - Customize User Interface PC
 - Customize User Interface Mac