

2D AND 3D CAD COURSES

Course Syllabus

1. Getting Started with AutoCAD

- Starting AutoCAD
- AutoCAD's User Interface
- Working with Commands
- AutoCAD's Cartesian Workspace
- Opening an Existing Drawing File
- Viewing Your Work
- Saving Your Work

2. Basic Drawing & Editing Commands

- Drawing Lines
- Erasing Objects
- Drawing Lines with Polar Tracking
- Drawing Rectangles
- Drawing Circles
- Undo and Redo Actions

3. Drawing Precision in AutoCAD

- Using Running Object Snaps
- Using Object Snap Overrides
- Polar Tracking at Angles
- Object Snap Tracking

4. Making Changes in Your Drawing

- Selecting Objects for Editing
- Moving Objects
- Copying Objects
- Rotating Objects
- Scaling Objects
- Mirroring Objects
- Editing with Grips

5. Organizing Your Drawing with Layers

- Creating New Drawings With Templates
- What are Layers?
- Layer States
- Changing an Object's Layer

6. Advanced Object Types

- Drawing Arcs
- Drawing Polylines
- Editing Polylines
- Drawing Polygons
- Drawing Ellipses

7. Getting Information from Your Drawing

- Working with Object Properties
- Measuring Objects

8. Advanced Editing Commands

- Trimming and Extending Objects
- Stretching Objects
- Creating Fillets and Chamfers
- Offsetting Objects
- Creating Arrays of Objects

9. Inserting Blocks

- What are Blocks?
- Inserting Blocks
- Working with Dynamic Blocks
- Inserting Blocks with Design Center
- Inserting Blocks with Content Explorer

10. Setting Up a Layout

- Printing Concepts
- Working in Layouts
- Copying Layouts
- Creating Viewports
- Guidelines for Layouts

11. Printing Your Drawing

- Printing Layouts
- Printing from the Model Tab

12. Text

- Working with Annotations
- Adding Text in a Drawing
- Modifying Multiline Text
- Formatting Multiline Text
- Adding Notes with Leaders to Your Drawing
- Creating Tables
- Modifying Tables

13. Hatching

- Hatching
- Editing Hatches

14. Adding Dimensions

- Dimensioning Concepts
- Adding Linear Dimensions
- Adding Radial and Angular Dimensions
- Editing Dimensions

15. Working Effectively with AutoCAD

- Creating a Custom Workspace
- Using the Keyboard Effectively
- Object Creation, Selection and Visibility
- Working in Multiple Drawings
- Copying and Pasting Between Drawings
- Using Grips Effectively
- Additional Layer Tools

16. Accurate Positioning

- Coordinate Entry
- Locating Points with Tracking
- Construction Lines
- Placing Reference Points

17. Parametric Drawing

- Working with Constraints
- Geometric Constraints
- Dimensional Constraints

18. Working with Blocks

- Creating Blocks
- Editing Blocks
- Removing Unused Elements
- Adding Blocks to Tool Palettes
- Modifying Tool Properties in Tool Palettes

19. Creating Templates

- Why Use Templates
- Controlling Units Display
- Creating New Layers
- Adding Standard Layouts to Templates

- Saving Templates

20. Annotation Styles

- Creating Text Styles
- Creating Dimension Styles
- Creating Multileader Styles

21. Advanced Layouts

- Quick View Layouts
- Creating and Using Named Views
- Advanced Viewport Options
- Layer Overrides in Viewports
- Additional Annotative Scale Features