COURSE SYLLABUS

AutoCAD Masterclass

Learn beginner, intermediate, and advanced AutoCAD skills in this comprehensive course.

> 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/autocad-masterclass



CustomerRelations@graduateschool.edu • (888) 744-4723

Course Outline

This package includes these courses

- AutoCAD Level I (18 Hours)
- AutoCAD Level II (12 Hours)
- AutoCAD Level III (18 Hours)

AutoCAD Level I

This hands-on AutoCAD course introduces students to essential tools and techniques used to create mechanical and architectural drawings.

- Learn core drawing and editing commands to create and modify lines, circles, rectangles, and more
- Master object snap, tracking, and coordinate input to ensure precision and accuracy in every drawing
- Organize and manage your work with layers, templates, and advanced object types like polylines and ellipses
- Apply real-world workflows to draw complex layouts, floor plans, and design elements for mechanical and architectural projects
- Insert, manage, and reuse blocks with tools like Tool Palettes and Design Center
- Prepare your drawings for print with layouts, viewports, annotations, and dimensioning tools

AutoCAD Level II

- Improve productivity with advanced tools for accurate positioning, parametric constraints, and block usage
- Learn how to create, organize, and manage reusable content through custom block libraries
- Set up and customize drawing templates to maintain consistency across multiple projects
- Design and manage advanced layouts with viewports, paper space, and scaling techniques for print-ready drawings
- Master annotation styles to ensure clarity and standardization in dimensions, text, and hatching
- Integrate external references (Xrefs) into your workflow to manage large-scale drawings and collaborate across teams

AutoCAD Level III

- Enhance drawings with advanced annotation tools, tables, and text objects for greater clarity and control
- Create dynamic blocks and attribute data to build smarter, more versatile design components

- Develop and publish professional drawing sets using sheet sets, layout tools, and collaborative features
- Customize the AutoCAD interface with user-defined settings, tool palettes, and productivity-enhancing macros
- Establish and enforce CAD standards across teams for consistent, high-quality output
- Learn tools for 2D automation and cloud-based collaboration to streamline workflows