CCET 1503 - CAD Technology

Fall 2026 Syllabus, Section 01, CRN 41513,

Credit hours: 2

Instructor

Robert Kirkpatrick

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Public Instructor Information

Instructor Title: **Adjunct Professor**
Instructor Professional Qualifications:
Master of Applied Science, University of Denver, 2008
BSAS, Civil Engineering Technology, Youngstown State University, 1999
Instructor Office Location: **Moser Hall #4120**
Instructor Office Phone: **(330) 941-4625**

Course Description

1503. CAD Technology. Basic instruction in the use of AutoCAD computer-aided drafting system. Includes primary 2D skills including dimensioning, blocks, external reference and plotting. Customization methods and an introduction to application programming. One and one-half hours lecture, one and one-half hours lab per week. Grading is A, B, C, NC. Prereq.: C or better in MATH 1510 or MATH 1510C. Prereq. or Coreq.: MATH 1513 or MATH 1511 or 1511C or at least Level 45 on the Mathematics Placement test. 2 s.h.

Course Readings

Group	Title	Author	ISBN
Required	AutoCAD 2026 Instructor	James A. Leach, Shawna Lockhart	ISBN-13: 978-1630577254, ISBN-10: 1630577251

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Tue	8/25	Textbook Chapter 1	General review of drafting concept and overview of the basic functions of AutoCAD. Assess student ability to login and operate software	No assignmants due Assess login functions/ ability to save assignments/ assess contact with instructor
Tue	9/1	Textbook Chapter 2 and 3	Fundamental drawing and modifying procedures plus introduction to dimensioning	Drawing assignment 1
Tue	9/8	Textbook Chapters 2/3 review, Dimensioning	Review drawing/modify commands. Modify dimensions for specific situtations. Review of drawing aids (OSNAPs, Polar Tracking)	Drawing Assignment 2
Tue	9/15	Textbook review/reference material	Review dimension modifications for mechanical drawings.	Drawing Assignment 3
Tue	9/22	Textbook review/reference material	Apply drawing/modify/dimension to multiview mechanical drawings	Drawing Assignment 3 continued
Tue	9/29	Textbook/reference material	Titleblock creation (review premade and created titleblocks)	Drawing assignment 4 - Titleblock

Tue	10/6	Reference Material	Use of titleblock(s) from previous week for Project 1. Multipart drawing set. Review for Quiz 1	Project 1
Tue	10/13	Reference material	Continuation of mechanical multipart drawing set	Project 1 continued Quiz - AutoCAD basics
Tue	10/20	Textbook - "Blocks", reference material	Location and usage of AutoCAD Blocks for use of commonly used symbols. Using electronics as a basis for this concept	Drawing assignment 5 - Electronic schematics
Tue	10/27	Textbook/References	Creation of a custom block, modification of an existing block Review for Quiz 2	Drawing assignment 6 - custom electronic symbols in a schematic
Tue	11/3	Textbook/reference	Project using standard, customized, created blocks	Project 2 - Electronic Schematic Quiz - Advanced AutoCAD concepts
Tue	11/10	Textbook/reference	Creation of a template, modification of a template. Drawing setting modifications for a construction drawing	Drawing assignment 7 - Garage
Tue	11/17	Textbook/reference	Usage of template from previous week. Drawing modifications. Adjustments for Paper Space for linetype Final Project introduction	Drawing 7 continued, Drawing 8 - Floor Plan
Tue	11/24		Fall Break - No Class	
Tue	12/1	Textbook/reference	Final Project criteria coverage Review for Final Exam	Final Project
Tue	12/8	Textbook/reference	Final Project continued Final Exam	Complete Final Project Final Exam with drawing portion

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.