SYLLABUS

PART I

EDISON COMMUNITY COLLEGE

MET 130S – AUTOCAD I

3 CREDIT HOURS

COURSE DESCRIPTION:

Introduction to the basics of computer-aided drafting using computer and textbook-based materials. Prerequisite: CIT 100S and EGR 110S. Lab fee.

COURSE GOALS:

The student will:

1. Recognize the components of a CAD system.
2. Set up drawing parameters.
3. Classify absolute, relative, and polar coordinate systems.
4. Creating and edit precise two-dimensional geometry in the CAD system.
5. Place geometry, notes, and dimensions on different layers in a CAD drawing.
6. Control line type patterns, weights, and colors in a CAD system.
7. Add text to a drawing using different fonts in a CAD system.
8. Set up drawing limits and units of measure in a CAD system.
9. Control the display while creating and editing two-dimensional geometry.
10. Plot two-dimensional geometry, borders, and title blocks at various scale factors
11. Complete geometric construction with the aid of the computer.
12. Complete section, isometric, and auxiliary views of objects in the CAD system.
13. Add dimensions and tolerances to with ANSI standards.

TOPIC OUTLINE:

1. Drawing basic entities.
2. Coordinate Systems.
3. Basic geometry editing techniques and selection sets.
4. Precision drawing using object snaps.
5. Drawing with grids and snap settings.
6. Geometry editing commands.
7. Controlling the display.
8. Adding text to the drawing and controlling text format and fonts.
9. Setting up drawing parameters and layers.
10. Plotting drawings.
11. Scaling CAD drawings.
12. Geometric constructions in the CAD system.
13. Multiview drawing and controlling linetypes.
14. Dimensioning in the CAD system.
15. Controlling the format of dimensions.
16. Obtaining information from the CAD drawing.
17. Hatching section views.
18. Isometric drawings in the CAD system.
19. Creating auxiliary views.

TEXT: Book no longer provided by the school, but this is what we will follow for lecture

AutoCAD and its applications BASICS, 2018, Shumaker, Madsen, Madsen, Goodheart-Willcox

Edison Community College
Syllabus Part 2
MET 130 AutoCAD 1 Fall 2026

INSTRUCTOR: Isaac Buehler
Bachelor's Degree, Architecture 2002, Bowling Green State University
e-mail Edison: ibuehler@edisonohio.edu
Class time: Wednesday 7:00 P.M. to 9:45 P.M.

Class Schedule/Activities: (Subject to Change)

Week 1	Wed Aug 26th	Chapter 1 Introduction to AutoCAD Features Chapter 2 Working with Drawings Chapter 3 Introduction to Drawing and Editing
Week 2	Wed Sept. 2nd	Chapter 4 Drawing Basic Object Shapes Chapter 5 Line Standards, Drawing Format, and Printing
Week 3	Wed Sept. 9th	Chapter 7 Object Snap and Auto Tracking Chapter 8 Construction Tools and Multiview
Week 4	Wed Sept. 16st	Chapter 9 and 10 Placing Text on Drawings Chapter 11 Modifying Objects
Week 5	Wed Sept. 23th	Chapter 12 Arranging and Patterning Objects Test #1
Week 6	Wed Sept. 30th	Chapter 13 Grips, Properties Techniques Chapter 14 Polyline and Spline
Week 7	Wed Oct. 7th	Chapter 15 Obtaining Drawing Information Chapter 16and 17 Dimensioning
Week 8	Wed Oct. 14th	Chapter 18 Dimensioning Features and Alternatives Chapter 19 and 20 Dimensioning with Tolerances / Editing
Week 9	Wed Oct. 21th	Chapter 21 Tables Chapter 22 Parametric Drafting
Week 10	Wed Oct. 28th	Chapter 23 Section Views and Graphic Patterns Test #2
Week 11	Wed Nov. 4th	Chapter 24 Standard Blocks Chapter 25 and 26 Block Attributes / Dynamic Blocks
Week 12	Wed Nov 11th	Veteran's Day No Classes
Week 13	Wed Nov 18nd	Chapter 28 and 29 Layouts and Plotting Setup

		Chapter 31-33 External References / sheet sets / 3D
Week 14	Wed Nov. 25th	HW catchup / 3D assign Class Project
Week 15	Wed Dec. 2th	Class Project
Week 16	Wed Dec. 9th	Final Exam 7:00 PM

This schedule represents probable dates for major activities, is provided for planning purposes, and is subject to change based on the needs of the class. All changes will be announced in lecture.

Policy Statements

Regular attendance is extremely important in order that students may benefit from supplementary material presented in class and from class discussions. Further, those who miss class or do not attend, typically are those needing the most help during the classes that they do attend. This situation will not be acceptable to me or to those students who attend every lecture. If a student must miss a class, the student is responsible for checking with a classmate in order to determine what material was covered in his or her absence. The instructor will provide any handouts that were missed, but do not expect the missed class to be reviewed. Students who miss class are responsible for doing the exercises that were completed during the missed class/classes.

Students who miss examinations are responsible for contacting the instructor to schedule the make up examination. Make up examinations must be completed before the next class meeting.

I subscribe to the philosophy that education is a two-way street. It's not just my responsibility to teach, but it is also your responsibility to learn. Therefore, I expect that you will do the reading assignments prior to class and come to class prepared to do class exercises, ask questions and enter into discussions.

Academic dishonesty in any form will not be tolerated. Copying homework from other individuals will result in receiving no credit for the assignment. Any additional violation will result in a failing grade for the course.

If you require reasonable accommodations because of a physical, mental or learning disability, please notify me immediately.

Evaluation Method

Homework 40%

Tests 30%
Project 15%
Final Exam 15%

Grade Distribution (Examinations/Quizzes, Homework, Project, Paper and Final Grade)

Points Grade

90 - 100 A
80 - 89 B
70 - 79 C
60 - 69 D
59 and below F

Project:

Possible Project:
Select an object to make a complete drawing with all required views and dimensions, etc. A complete drawing or set of drawings. There will be an assembly drawing with detail drawings as a package. This includes your own letterhead and drawing icons.

Further information to be given in class changes as progression through the course.

Student Wellness Center

College is stressful! Feeling burnt out, anxious, frustrated? When challenges arise, it's helpful to have someone to talk to. We have partnerships established with many local mental health providers and can connect you with area resources.

The Student Wellness Center helps students navigate obstacles which might cause issues or create a sense of distress during your school year. Edison State has built a network of health professionals to support students. With these partnerships, the Student Wellness Center can assist students who need support in areas such as:

- Recovery and Counseling referral
- Housing
- Food
- Physical well-being

Information and education are also provided on the topics of:

- Alcohol and drug abuse and prevention
- Sexual assault prevention and awareness
- Building healthy relationships
- Survivor support
- Self-care

If you are struggling and need to speak with someone in person, please reach out to Velina Bogart, Coordinator of Student Wellness, at vbogart@edisonohio.edu, 937-778-7854, Room 193 (next door to the Security Office).

Walk in hours on campus are Tuesday, Wednesday, Thursday, 8am-5pm. Hours may vary according to the college schedule or events. You may schedule an appointment by clicking here.

If this is a medical emergency, please call 911. If this is a mental health emergency, please call 988.

Please note that the Charger Station Food Pantry has been relocated to Room 060 (next to the cafeteria).

Testing Your Faith Act Policy
Edison State Community College is committed to providing an environment respectful of students' beliefs. Students are permitted to be absent for up to 3 days each semester based on their faith, religion, or spiritual belief system with no academic penalty. Students must complete the Testing Your Faith Act Accommodations Form, https://www.edisonohio.edu/services-support/registration-records, located in "Forms" and provide a copy to their individual faculty within 14 days from the start of the course. The entire policy can be found in the student handbook at https://www.edisonohio.edu/services support/student-resources. Technical Support For Blackboard Assignment issues, the instructor should be the first point of