SYLLABUS
PART I
EDISON STATE 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: EGR 110S. Lab fee.

COURSE GOALS
The student will:

Bloom's Level		Program Outcomes
1	1. Describe the components of a CAD system.	1
3	2. Establish drawing parameters.	1
2	3. Differentiate absolute, relative, and polar coordinate systems.	1
3	4. Construct precise two-dimensional geometry.	1
3	5. Construct geometry, notes, and dimensions on different layers.	1
3	6. Establish line type patterns, weights, and colors.	1
3	7. Produce text to a drawing using different fonts.	1
3	8. Establish drawing limits and units of measure.	1
3	9. Apply display control techniques while creating and editing two-dimensional geometry.	1
3	10. Produce plots of two-dimensional geometry, borders, and title blocks at various scale factors.	1
3	11. Complete geometric constructions.	1
3	12. Complete section, isometric, and auxiliary views of objects.	1
3	13. Apply ANSI standards to dimensions and tolerances.	1
3	14. Create 3D wire frame solid model from a 2D drawing.	1

CORE VALUES
The Core Values are a set of principles that guide in creating educational programs and environments at Edison State. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives, and activities in this course will introduce/reinforce these Core Values whenever appropriate.

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 drawings
12. Geometric constructions
13. Multiview drawing and controlling linetypes
14. Dimensioning
15. Controlling the format of dimensions
16. Obtaining information from the drawing
17. Hatching section views
18. Isometric drawings
19. Creating auxiliary views