

COURSE OUTLINE
Loc Nguyen, 2012

DEPARTMENT:	Professional Technical Education
CURRICULUM:	CAD / DESIGN Technology
COURSE TITLE:	Intermediate AutoCAD 2-D
COURSE NUMBER:	TDR 133
TYPE OF COURSE:	Technical Preparatory
COURSE LENGTH:	1 quarter
CREDIT HOURS:	4
LECTURE HOURS:	22
LAB HOURS:	44
CLASS SIZE:	20
PREREQUISITES:	TDR 131 Basic CAD 2-D with a grade 2.5 or better, and concurrent TDR 123 Drafting Technology II.

COURSE DESCRIPTION:

This course is designed to build on those skills developed during a course in Introduction to CAD I (TDR 131). It will provide the students with additional instruction on how to use the advanced command of the AutoCAD PC-based AutoCAD® software.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Communication - Read and translate technical data relative to geometric spatial relationships into a graphical form easily understood by others with similar technical understanding.
2. Computation - Use basic mathematical operations as required defining geometrical spatial relationships.
3. Human Relations - Use social interactive skills to enhance learning through informal tutoring activities.
4. Critical Thinking and Problem Solving - Organize and evaluate technical data, as well as select and apply appropriate spatial relationship principles to determine problem solution.

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STUDENT LEARNING OUTCOMES ADDRESSED: (cont.)

5. Technology - Select and use appropriate technological tools to create technical graphics.
6. Personal Responsibility - Take pride in own work
7. Information Literacy - Access & use information from variety of resources / data

GENERAL COURSE OBJECTIVES:

Upon completion of the course the student will be able to:

1. Modify and apply dimension style changes to new and existing dimensions.
2. Create and apply section views to drawings
3. Create an auxiliary view in a primary Multiview drawing.
4. Create and insert a symbol block for use in both a current drawing and a separate drawing.
5. Apply block express tools for special applications
6. Create moderately detailed drawings.

TOPICAL OUTLINE:

	APPROX. HOURS
I. Course Overview	1
II. Basic Dimensioning	11
III. Working with Drawing Layouts & Plotting	6
IV. Section Views	9
V. Auxiliary Views	9
VI. Tolerancing	12
VII. Analyzing 2-D Drawings	6
VIII. Working With Blocks, Attributes, & External References	<u>12</u>
Total	66

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