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  12

Total 66