COURSE OUTLINE
Loc Nguyen, 2012

DEPARTMENT: Professional Technical Education
CURRICULUM: CAD / DESIGN Technology
COURSE TITLE: Introduction to AutoCAD 2-D
COURSE NUMBER: TDR 131
TYPE OF COURSE: Technical Preparatory
COURSE LENGTH: 1 quarter
CREDIT HOURS: 4
LECTURE HOURS: 22
LAB HOURS: 44
CLASS SIZE: 20
PREREQUISITES: TDR 121 Drafting Technology I (or concurrent with)

COURSE DESCRIPTION:
The objectives of this course are to provide the students with an understanding of the features, limitations, and considerations associated with the operation of a computer-aided design/drafting (CAD) system. Students will gain valuable hands-on experience using the AutoCAD® PC-based CAD 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. Identify CAD hardware components and system configuration
2. Operate the CAD workstation components including the computer, input/output devices.
3. Understand and explain the features, limitations, and considerations associated with the commands and characteristics of AutoCAD®.
4. Operate the AutoCAD® latest release software.
5. Create moderately detailed drawings.

TOPICAL OUTLINE:

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<td>III. Starting AutoCAD/drawing setup</td>
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<td>IV. Cartesian Coordinate System</td>
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<td>V. Drawing Basic Shapes</td>
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Originated or Revised BY: L. NGUYEN  
DATE: Jan 10, 2010