DeAnza College

ECMS: Course Outline Creation & Management

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Degree Applicable
Effective Quarter: Fall 2010

I. Catalog Information

CDI 80A	**AutoCAD (Beginning)**	**4 Unit(s)**
CDI 80B	AutoCAD (Beginning)	4 Unit(s)
CDI 80C	AutoCAD (Beginning)	4 Unit(s)
CDI 80D	AutoCAD (Beginning)	4 Unit(s)
CDI 80E	AutoCAD (Beginning)	4 Unit(s)
CDI 80F	AutoCAD (Beginning)	4 Unit(s)
CDI 80G	AutoCAD (Beginning)	4 Unit(s)
CDI 80H	AutoCAD (Beginning)	4 Unit(s)

Requisites:

Formerly:

Grading: Graded

Hours: Eight hours lecture-laboratory

Description: Principles and applications of computer-aided design and drafting using AutoCAD software. Emphasis on 2D drawings and dimensioning.

II. Course Objectives

A. Apply AutoCAD software requirements

B. Create drawings using the commands of the AutoCAD drafting software

C. Use ASME standards in dimensioning and tolerancing mechanical drawings

D. Master 3D design commands and visualization techniques

E. Perform archiving and output functions for drawings

III. Essential Student Materials

None

IV. Essential College Facilities

None

V. Expanded Description: Content and Form

A. Apply AutoCAD software requirements

1. Overview

2. Terminology

3. Introduction to CAD drafting

4. Line types

5. Colors and layers

B. Create drawings using the commands of the AutoCAD drafting software

1. The main menu
2. Entering the drawing editor
3. Help
4. Line
5. Point
6. Circle and arcs

C. Use ASME standards in dimensioning and tolerancing mechanical drawings

1. Semiautomatic dimensioning and tolerancing
2. Styles
3. ASME dimensioning

D. Master 3D design commands and visualization techniques

1. Methods of viewing
2. Orbit command
3. 3D commands

E. Perform archiving and output functions for drawings

1. Saving to disk
2. Output with printers and plotters

VI. Assignments

A. Lab exercises

B. Take-home worksheets

C. Reading from text and reference materials

VII. Methods of Instruction

Lecture and visual aids
Discussion of assigned reading
Discussion and problem solving performed in class
Homework and extended projects
Laboratory experience which involve students in formal exercises

VIII. Methods of Evaluating Objectives

A. Completion of lab assignments

B. Complex and multi-faceted design projects

C. Comprehensive final examination

IX. Texts and Supporting References

A. Examples of Primary Texts and References

1. Tickoo, Sham; "AutoCAD 2010: A Problem Solving Approach;" ITP

B. Examples of Supporting Texts and References

1. None

ECMS v6.5