

DE ANZA COLLEGE – ADVANCED TECHNOLOGY CENTER
Business and Computer Systems Division
CAD and Digital Imaging
Course Outline

Degree Applicable

CAD and Digital Imaging 73

Effective Quarter Fall 2005

I. Catalog Description

CDI 73 A - L	Pro/ENGINEER Wildfire 2.0 (Pro/SHEETMETAL)	4 Units
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CDI 73A Pro/ENGINEER Wildfire 2.0 (Pro/SHEETMETAL)	CDI 73G
CDI 73B	CDI 73H
CDI 73C	CDI 73I
CDI 73D	CDI 73J
CDI 73E	CDI 73K
CDI 73F	CDI 73L

Prerequisites: CDI 70

Eight hours lecture-laboratory

Principles of sheet metal design using Pro/ENGINEER Pro/SHEETMETAL.

II. Course Objectives

The student will:

- A. Create Sheet Metal Wall features and establish a design approach.
- B. Apply Punch, Notch and special features.
- C. Setup drawing options and create sheet metal drawings.
- D. Establish additional features including Form, Flatten, and Flat Pattern.
- E. Create part conversion features.

III. Essential Student Materials

None

IV. Essential College Facilities

None

V. Expanded Description: Content and Form

- A. Wall Creation
 - 1. Sheet Metal Parts
 - 2. Design Approach
 - 3. Viewing the Sheet Metal Part
 - 4. Walls
- B. Cut, Notch, And Punch Features
 - 1. Cut Feature
 - 2. Dimensioning Scheme
 - 3. Punch and Notch Features
- C. Sheet Metal Setup and Drawings
 - 1. Default Radius
 - 2. Flat State
 - 3. Bend Tables
 - 4. Sheet Metal Drawings
- D. Additional Features
 - 1. Flat Pattern
 - 2. Solid Features
 - 3. Projected Datum Curves
- E. Part Conversion
 - 1. Converting Geometry
 - 2. Rib Features
 - 3. Converting Solid Parts to Sheet Metal Parts

VII. Assignment

- A. Lab projects.
- B. Worksheets.
- C. Reading from textbooks and references.

VIII. Methods of Evaluating Objectives

- A. Completion of lab projects.
- B. Comprehensive design projects.
- C. Comprehensive final exam

IX. Texts and References

- A. Text:
 - 1. Lamit, Louis Gary. Pro/ENGINEER Wildfire, ITP