

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

Degree Applicable

CAD and Digital Imaging 70

Effective Quarter Fall 2005

I. Catalog Description

CDI 70 A - L Pro/ENGINEER Wildfire 2.0 (Beginning) 4 Units

CDI 70A Pro/ENGINEER Wildfire 2.0 (Beginning)	CDI 70G
CDI 70B	CDI 70H
CDI 70C	CDI 70I
CDI 70D	CDI 70J
CDI 70E	CDI 70K
CDI 70F	CDI 70L

Prerequisites: None.

Eight hours lecture-laboratory

Fundamentals of part design, using Pro/Engineer. Application of operating system, software, hardware, and peripherals in creating 3D manufacturing models with Pro/ENGINEER.

II. Course Objectives

The student will:

- A. Master Pro/ENGINEER Software and Hardware requirements.
- B. Grasp system usage, desktop features, and folder creation and manipulation.
- C. Apply Pro/ENGINEER options for environment settings.
- D. Create 3D designs (models) using sketching techniques using the commands of the software.

III. Essential Student Materials

None

IV. Essential College Facilities

None

V. Expanded Description: Content and Form

A. Description of Hardware & Software

1. NT Workstations
2. Pro/ENGINEER system requirements
3. CADTRAIN training software

B. System Login & Desktop Graphics Manipulation

1. Login Procedure
2. Desktop Features
3. Create Folders

C. Pro/ENGINEER Environment

1. Introduction
2. Starting Pro/ENGINEER
3. The Pro/ENGINEER Windows
4. Modes
5. Multiple Graphics Windows
6. Changing Directory
7. Creating File
8. File Naming
9. Saving & Retrieving

D. Creating 3D Models

1. Sketching
2. Datum Planes
3. Modeling
4. Dimensioning
5. Modifying
6. Views

VII. Assignments

- 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