

**DE ANZA COLLEGE - ADVANCED TECHNOLOGY CENTER
BUSINESS/COMPUTER SYSTEMS DIVISION
CAD & DIGITAL IMAGING DEPARTMENT
GREEN SHEET FOR Fall 2009**

Course: CDI 51

Geometric Dimensioning and Tolerancing

Instructor: Mr. Robert Benzio

Office Phone: (650) 604-0419
(408) 203-0457 (cell)

Class: Friday, 6:00 pm – 9:40 pm

E-mail: Robert.Benzio@gmail.com
Rm. AT301

Text & Reference: Madsen, David. Geometric Dimension and Tolerancing. South Holland: Goodheart, Willcox, 2004

Overview:

- 3:40 hour's lecture/laboratory per week.
- Fundamentals of Geometric dimensioning and tolerancing.
- Compare and contrast the coordinate and geometric dimensioning and tolerancing system.
- Identify and interpret the geometric dimensioning and tolerancing symbols.
- Interpret and construct feature control frames.
- Explain the use of datums.
- Describe the characteristics and conditions for non-position feature tolerances.
- Determine the appropriate use of symbols for indicating position tolerances.
- Compare contrast the ANSI Y14.5M and ISO symbols.

Student Learning Outcome: This course is to educate and assist students, designers, engineers, and professionals in the fundamental use of GD&T through a series of CAD design work, print reading exercises and homework. The hands on work shall include:

- Numerous activities to create parts and 2-D drawings of the parts.

The document, generated from CAD files will be submitted digitally.

- The native CAD file and a PDF file of the CAD file.
- Completed test and print reading forms that are submitted.
- Other files/documents if asked by your instructors.

Attendance: Attendance at all classes is expected. While the student's attendance record is not part of his/her grade, the work load is designed to make **full** use of the hours allocated for this class. That is to say, if a student doesn't put 4 hours of work per week on the subject matter, he/she cannot expect to finish the assigned work by the end of the quarter. Attendance will be taken once every session. **It is the student's complete responsibility to drop this class. I will not drop anyone from the class.**

Homework: Our textbook is also a workbook and much of the work to be done is included in the textbook. We will also create new simple drawings from handouts provided in class. The drawings may be created in any of the CAD software or with drafting tools on paper. Lab time will be provided and the student may use any software or hardware to complete the assignment.

Projects: The student's grade for this course is based upon the submittal of the assignments, quizzes, midterm, drawings and final project and/or final examination.

1. Accuracy; Is the data required correct?
2. Clarity; No confusing or unnecessary data.
3. Completeness; Are all necessary features present?

Basis for Grade: Chapter Tests part 2, and Print Reading Exercises: 40%
Drawings: 20%
Quizzes, and Mid term: 5%
Final Exam: 25%

A: 90% - 100%
B: 80% - 90%
C: 70% -80%
D: 60% -70%
F: Less Than 60%

Go to www.deanza.edu/cdi/

De Anza College
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CDI (CAD)

Computer Aided Design and Digital Imaging Department

Please take our **CAD program survey** - required for all enrolled students

All CAD students must go to [CAD-Resources](#) for important information about your classes and also read [Class Rules and Regulations](#).

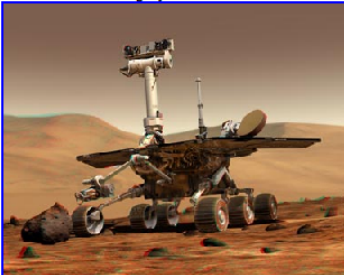
[CAD Department](#) has been a leading technical and engineering educational program in Silicon Valley for more than 28 years. De Anza offers a [variety of classes](#), including the following.

- [Pro/ENGINEER](#)
- [SolidWorks](#)
- [Unigraphics](#)
- AutoDesk products
 - [AutoCAD](#)
 - [Inventor](#)
 - [3D Civil](#)
 - [Architectural Desktop](#)

- Enrolled Students Notice! -

Join the CDI "CAD" E-mail list: cad@cad-resources.com
Just send us an email and request to be put on the list.

Design your future.



History of De Anza's CAD Program

What's New

!! IMPORTANT !!

- **CAD-Resources**
- [CDI Class Rules - All students MUST READ!!!](#)
- **Fall '09 Schedule**
- Join CDI [email list](#)
- De Anza [Admissions & Registration](#)
- [Enrolled students notice](#)

Resources

- [OTI - Occupational Training Institute](#)
- [NASA Paid Internships](#)
- [Financial Aid](#)
- [CAD-Resources](#)

Student Information

Business/Computer Systems Division

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