

SYLLABUS Fall 2009  
SOUTHERN ILLINOIS UNIVERSITY CARBONDALE  
Edwards AFB, CA

**COURSE NUMBER:** IT-110 **COURSE TITLE:** Geometric Dimensioning & Tolerancing; 3 credit hours.

**COURSE DESCRIPTION:** This course will present the principles of geometric dimensioning and tolerancing (GD&T) as it applies to industry accepted standards, such as ANSI/SME Y14.5M – 1994. This includes the use and meaning of GD&T symbols on manufactured part drawings. The interpretation of GD&T symbols in feature control frames and the application of GD&T symbology to various working drawings is emphasized.

**COURSE INTRODUCTION & STUDY TECHNIQUES:**

IT-110 covers a great deal of material. Basic Drawing aspects and into complex Geometric Dimensioning and Tolerancing. Text readings, workbook, & the lectures will help in the understanding of the various concepts covered in the text. A great deal of concentration of this course is on familiarizing the student with terminology & application. Read the assigned pages before coming to class. In your reading, don't get bogged down in the calculations, & deep technical data. Try to gain a general understanding of the information. The CD is the presentation material, which will be presented in class. It is suggested that you make use of this by printing the presentation - possibly as "notes pages" in the print screen.

**INSTRUCTOR:** John Petersen; SIU Office: (661) 258-7357; SIU Fax: 258-8737  
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**CLASS MEETINGS:** Aug 29 & 30, Sept 12 & 13, & Sept 26 & 27. 8:00 A.M. - 5:00 P.M.

**CLASS LOCATION:** Bldg 2461, Classroom TBD, Edwards AFB, CA

**REQUIRED TEXT:**

Raisor, E. Max; *Engineering Graphics Principles With Geometric Dimensioning and Tolerancing*; Schroff Development Corp. 2002. ISBN: 1585030457

Note: Used books are fine, but be sure you obtain one with the CD.

**REFERENCES:**

Texts:

Geometric Dimensioning and Tolerancing, by David A. Madsen, The Goodheart-Willcox Company, Inc., 2003.

**EQUIPMENT:**

Scientific Calculator (e.g.: Texas Instruments TI-30 or better)

**EVALUATION OF STUDENT PERFORMANCE:**

**GRADING:**

Test #1 40%

Test #2 40%

Workbook 20%

**GRADING STANDARDS:**

A -- 90 - 100%

B -- 80 - 89.9%

C -- 70 - 79.9%

D -- 60 - 69.9%

F -- Less than 60%

**TEACHING METHODS:** Informal lecture, group discussion, and videos.

**ATTENDANCE:** Students are required to attend all classes. It is very difficult to make up for missed class time. Students who are absent or late without a work-related or health excuse will be penalized one letter grade. Those with a valid excuse will be required to make up the class or classes missed by a written homework assignment on the material missed. This assignment will not be graded but will be used to ensure the student has a basic understanding of the missed material.

**COURSEWORK:** All course work is due by the dates reflected in the Reading Assignment & Homework Schedule of this syllabus. Late test completion, not excused in advance by the instructor, will be reduced 10 points per week or fraction thereof; i.e. a test grade of 90, if late one week or less, would be reduced to an 80. If late between 1 and 2 weeks it would be reduced to 70, etc.

**INCOMPLETE GRADES:** University policy contained in the "Undergraduate Catalog" requires that students who request an INCOMPLETE GRADE must be engaged in PASSING WORK. If extenuating circumstances arise, the student must immediately request, IN WRITING, an extension from the instructor detailing the circumstances and dates involved. If a delay in completing course work is approved by the instructor, an extension will be granted which will reflect the new due date(s) for completion of the work. The time extension will not exceed a period of time equal to the amount of time lost due to the extenuating circumstance. Work not completed by the last class date, if not otherwise extended by the instructor, will be given "zero" value in determining a final course grade.

**CONTESTED GRADE/TEST SCORES:** If you contest a test score and/or your final grade, it must be done within 30 days of the course completion date.

**EXAMINATIONS:** Multiple choice & T/F and fill-in blank tests will cover assigned readings & lectures.

Exam #1: Chapters 1-5.

Exam #2: Chapters 6-11.

**HOMEWORK:** Take Home G D & T Workbook - 12 chapters (PDF).

**READING ASSIGNMENT & HOMEWORK SCHEDULE:** Assigned class readings are required prior to attending class. Lectures will supplement but not replace assigned readings.

Weekend 1:

Read Chapters 1-5

Lectures on Chapters 1-5

Weekend 2:

Read Chapters 6-9

Lectures on Chapters 6-9.

Test # 1 on Chapters 1-5. (Sunday)

Weekend 3:

Read Chapters 10-11

Lectures on Chapters 10-11.

*Take Home Workbook Due.* (Sunday)

Test # 2 on Chapters 6-11. (Sunday)