



## Common Course Numbering System

Your current Institution is CCCS

### Searching Current Courses For Fall 2014

**Course:** EGT 103

**Title:** Applied Dimension & Tolerance

**Long Title:**

**Course Description:** Focuses on industrial dimensioning practices, enables the student to develop skills in dimensioning techniques and learn to apply the ASME Y14.5 dimensioning standard.

**Min Credit:** 3

**Max Credit:**

**Origin Notes:**

CCD

#### STANDARD COMPETENCIES:

1. Describe dimensioning basics.
2. Define and apply dimensioning rules.
3. Define dimensioning components, symbols, and systems.
4. Define preferred dimensioning practices.
5. Describe and use standard abbreviations,
6. Describe and use general notes and flag notes in a drawing
7. Describe and use for surface finish symbols.
8. Describe how to apply thread note to drawing.
9. Describe and apply tolerancing techniques for a part or assembly.
10. Describe and use precision measurement instruments.
11. Define entry level geometric dimensioning and tolerancing symbols and their usage.

#### TOPICAL OUTLINE:

- I. Describe dimensioning basics.
  - a. Describe dimensioning of basic outside features of the object.
- II. Define and apply dimensioning rules.
  - a. Describe dimensioning for location and size.
- III. Define dimensioning components, symbols, and systems;

- a. Define a dimension, dimension line, extension line, arrow size, and visible gap.
- IV. . Define preferred dimensioning practices.
  - a. Define why each feature is dimensioned once and only once
  - b. Define why dimensions should suit the function of the object
- V. Describe and use standard abbreviations.
  - a. Describe ANSI/ASME standard abbreviation and how to use them.
- VI. Describe and use general notes and flag notes in a drawing
  - a. Define general and specific notes.
- VII. Describe and use for surface finish symbols.
  - a. Describe ANSI/ASME standard surface finish symbols and how to use them.
- VIII. Describe how to apply thread note to drawing.
  - a. Describe ANSI/ASME/ISO thread symbols.
- IX. Describe and apply tolerancing techniques for a part or assembly.
  - a. Describe the description and control of variability through tolerancing.
- X. Describe and use precision measurement instruments.
  - a. Describe the use of Micrometer, dial indicator, and vernier caliper.
- XI. Define entry level geometric dimensioning and tolerancing symbols and their usage.
  - a. Define GD&T Symbology such as Feature Control Frame, Datum Reference, Geometric Character Symbol, and Material Condition.

**Course Offered At:**

**Community College of Denver CCD**  
**Pikes Peak Community College PPCC**

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