

# ME359: Computer Aided Design & Machine Elements

## Fall 2014

### Instructor and Class Information

**Instructor:** Peter A. Zink, pzink@bu.edu, (617)358-1631

**Office Hours, Location:** By appointment, 730 Commonwealth Ave, EMA 202d

**Lecture Times, Location:** Section A1, Tue 4-6 — Section A3, Mon 12-2 — all lectures in EMB 125 (ECL)

**Lab Times, Location:** Arranged, EMB 125 (ECL)

**Prerequisites:** EK156: Design and Manufacture

**Course Website:** <http://blackboard.bu.edu>

**Course Description:** Technical drawing in two and three dimensions will be covered in detail using the computer aided design (CAD) tool PTC Creo. Geometrical dimensioning and tolerancing methods and specifications will be taught and applied to a variety of tasks and projects. Topics will include initial aspects of machine components and design, computer numerical control (CNC), computer aided manufacturing (CAM), and relations to machining and various manufacturing processes. Often, specific key machine components will be used as demonstrations of dimensioning and tolerancing specifications.

### Textbooks

- Required: *Machinery's Handbook from Industrial Press* - Any edition from 24th to current

### Homework Problem Sets

- Weight: All homeworks are weighted equally. Lowest homework score dropped at end of semester.
- Frequency: Weekly
- Collaboration Policy:
  - Collaboration is acceptable, but the final work must be the student's own.
  - The students must note with whom they have collaborated
- Late homework will not be accepted.

### Laboratory Sections

Laboratory sections are a required part of the course. You must attend all labs for this course, during the weeks they are assigned. There are no scheduled makeup labs.

### Academic Conduct:

Students enrolled in this course are expected to follow the Boston University Student Code of Academic Conduct for all assignments and exams. Violations of the code must be reported to the Deans office. For more information, please visit the following website: <http://www.bu.edu/cas/students/undergrad-resources/code/>.

### Course Grades

- Quizzes (2), 20% (The quizzes are given in the second half of the semester)
- Homework Problem Sets, 60%
- Final Project 20%

It is your responsibility to check with the instructor or teaching assistants to make sure that all quizzes and assignments have been recorded correctly, and that you are not missing any points on the grade sheet on Blackboard. After two weeks from the time the assignment is returned there will be no change in grades.