

CEE 370 (ME 371) – MECHANICS OF SOLIDS**Instructor**

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Course Specific Outcomes

This course is designed to introduce students to the behavior of structural materials when subjected to various types of loads. An understanding of the concepts of stress and strain and how they relate to the applied load is central to the content of this course. By extension of this central idea, consideration of members subjected to axial load, bending, shear and torsion will form a major focus of the course. Computation of deflection due to axial load, torsion and bending also will be covered.

Textbook

- “**Mechanics of Materials**”, Ninth Ed., Goodno and Gere, ISBN-13: 978-1337093347

Prerequisite Courses

- CEE 270 (C grade or better) and MATH 243

Prerequisite or Concurrent Courses

- Math 244 or 253A

Prerequisite Topics

The major topics from pre- or co-requisite courses which are essential for CEE370 are as follows.

- Free body diagrams
- Equilibrium equations
- Centroids and moments of inertia
- Differential and integral calculus

Student Learning Outcomes

This course contributes to a number of the Student Learning Outcomes (SLOs) that are assessed on a regular basis as part of the CEE department continuous improvement program. For a description of the SLOs, refer to the CEE website at <http://www.cee.hawaii.edu/undergraduate>.

The following table identifies the SLOs addressed in this course.

Student Learning Outcome (SLO)	1	2	3	4	5	6	7
Course Emphasis	3	1	1	3	3	1	1

Attendance

University policy on class attendance must be followed. Regular attendance at class is expected. Unavoidable absences should be explained to the instructor.

Pop-up Quizzes

There will be several unannounced quizzes. The worst one will be dropped.

Homework Assignments and Exams

Approximately 11 one-week assignments will be set. Typically, these will be uploaded to the class Laulima website on Monday and will be due the following Monday. Late assignments will be credited 80 percent for 5 days following the due date and 60 percent thereafter. Late assignments will not be accepted after a test is given on the material covered in the assignment.

Homework must be neat and well-presented; sloppy homework will be returned as unsatisfactory.

Two midterm exams are scheduled during the normal class period. The final exam is TBA.

Basis for Grading

The grade for CEE 370 will be determined as follows:

Homework	20%
Quizzes	5%
Midterm Exam #1	20%
Midterm Exam #2	20%
Comprehensive Final	35%
Total	100%