

CEE 370L - MECHANICS OF SOLIDS LABORATORY

Instructor

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Course Description

The Mechanics of Solids laboratory will be offered for an introduction to the lab, or for a tutorial session. It is intended that you take this lab section concurrently with CEE370, Mechanics of Solids, though it may be taken after CEE370 (or ME371). The laboratory sessions will help to reinforce the theoretical material covered in CEE370 (or ME371).

Reference Textbook

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

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 laboratory sessions is expected. Unavoidable absences should be explained to the instructor.

Laboratories

All lab sessions will meet in a designated classroom. You must attend the lab section for which you have registered. Please see me if you need to change lab sections.

The laboratory portion of this course is writing focus. The intent of this designation is to provide a venue for you to learn about and practice writing technical reports. Two of the laboratory reports will constitute the W-focus content of the course. These individually prepared reports will be reviewed in detail so as to provide you with maximum feedback on your presentation of the material and writing technique. You will be required to edit your reports so as to incorporate the suggested changes and resubmit.

Two types of laboratory session will constitute the laboratory portion of this course. All lab sessions are compulsory, and your participation grade will depend on attendance at all sessions. Please let the TA know if you cannot make a lab session.

Test Laboratories

Six of the lab sessions will be used to perform tests on various materials and members. The tests will closely follow the material in the lectures, and will include tension, compression and bending tests.

Laboratory reports will be required for each test lab. One of these reports will be submitted as a group report. Another two will require individual reports, while the remaining labs will require completion of a worksheet.

Tutorial Laboratories

The tutorial laboratory sessions will be used for review sessions or to work on laboratory reports and homework assignments. These sessions will provide a convenient opportunity for working on the group laboratory report. You are required to attend the laboratory section for which you are registered, but are welcome to attend the other tutorial sessions as well if you choose. The TA will be available to answer your questions and provide advice.

Lab Report and Worksheet Policies

All reports and worksheets must be completed and turned in on the due date for full credit, any late reports and worksheets will be graded from B. If you have difficulties finishing the assignments on time, please email and explain the reason to the TA BEFORE the deadline. All reports are to be in a format that is consistent with the format template provided.

The draft reports will be graded based on the completeness of the work and proper formatting; major mistakes will be marked for your reference. The final reports will be graded based on the correctness of numerical answers, correctness of logic of content, writing quality, and organization.

Academic integrity is expected. Any types of plagiarism on any written assignments will result in a grade of F for the lab session.

Basis for Grading

The grade for CEE 370L will be determined as follows:

2 Individual Reports	Draft	20%
	Final	40%
1 Group Report	Draft	5%
	Final	10%
3 Lab Worksheets		15%
Lab Participation		5%
Tutorial Participation		5%
Total		100%