SYLLABUS & COURSE INFORMATION
MEC 317 MECHANICAL ENGINEERING LABORATORY II
Spring 2008

Instructors
Prof. F. P. Chiang (2-8311)
Prof. Thomas Cubaud (2-9431)
Lab. Supervisor: Mr. Ta-Yung Hsu(2-8307)

First class
Tuesday, Jan 29, 12:50 PM. Room 112 Physics. All students.
Topics: Introduction, course overview, basics of writing lab reports.

Preparation Lectures for Experiments
Thurs, Jan 31, Rm. 112 Physics, All students. 12:50 to 2:10 PM
Topics: basics of measurement, significant digits
Feb 5 & Feb. 7 Lectures. 12:50 – 2:10 PM
Lectures specific to fluid/thermal labs,(Group 11-20) Rm/112 Physics.
Lectures specific to solid labs.(Group 1-10) Rm. 206 Heavy Engr.

Laboratory Location and Time
Fluid section: Rm. 101 Heavy Engr. Bldg.
Solid section: Rm. 101(Lab 4) & Rm 206(Lab 1,2,3,5) Heavy Engr. Bldg.
Tuesday or Thursday 12:50 – 3:40 PM.

Group Assignment
Total 20 groups. 3 students each group.
Group 1-10 first period, solid labs. Second period, fluid/thermal labs.
Group 11-20 first period, fluid/thermal labs. Second period, solid labs.
Group 1-5, group 11-15 – Tues groups.
Group 6-10, group 16-20- Thurs groups.
First period:

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3/17 – 3/22 Spring Recess

Mar. 25&27 Lectures. 12:50 – 2:10 PM
Lectures specific to fluid/thermal labs.(Group 1-10) Rm 112 Physics.
Lectures specific to solid labs.(Group 11-20) Rm 206 Heavy Engr.

Second period:

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Note: schedule is tentative, and will be adjusted for holidays and other special functions accordingly.

Grading Policy
The final grade will be determined from:
- Pre Lab. 10%
- The Pre lab should hand to the TA by each student when student arrive at the lab. Lab report. 90%.
- The lab report should prepare by group but the corresponding author should be in turns.
- Ten (10) lab reports total, 3 to 4 per student 100 %
Lab reports will be graded out of a maximum 100 points each.

Lab Reports
You must submit your previous lab report when you arrive at the lab for the next lab class.

Penalty for Late Submission of Reports
10 points (10%) deducted from final score for each day late. No exceptions will be made.
**T.A. Assignments**

T.A. Office hours=Lab. Hours.

Solid Lab.  Fluid Lab.

Gunes Uzer  Yu Chen

**Report Content**

1. Title Page (experiment title, *all* names, date due)
2. Objective
3. Introduction
4. List of Equipment
5. Theory of Experiment (includes drawings and descriptions)
6. Experimental procedures.
7. Results
8. Discussion
9. Error Analysis and Uncertainty Tree
10. Conclusions