

Memorandum

To: CVEN 3161 Students
From: Kaspar Willam, Instructor
Subject: Laboratory Tests in MoM I, CVEN 3161, Fall 2008
Date: Monday, Aug. 25, 2008

We have over 70 students in MECHANICS OF MATERIALS I this Fall Semester. Hence, we need to divide the student body into 9 groups with approx. 8 students each. The Wednesday Lab meetings will take place in three sections with three groups starting at 2:00pm, three groups starting at 3:00pm, and three groups starting at 4:00pm.

The CVEN 3161 class is scheduled to meet MF 8:00-8:50am for the lectures in ECCR 245. For the laboratory portion, the entire class will meet each Wednesday at 8:00-8:50am in ECCR 245 to discuss the three laboratory experiments that will be performed in the course of the semester, to solve problems related to the homework assignments, and to schedule three midterms during the semester.

Each student is expected to participate in three laboratory experiments, and to write individual reports on the three tests described below. Because of the number of students each experiment will be repeated on three Wednesday afternoons in order acquaint you with hands-on testing of mechanical properties of structural materials.

Lab Schedule for Fall 2008

Lab #1: Tension Tests of Cylindrical Steel Bars: Sept 3 - Sept 17, 2008

Involves stiffness, strength and ductility measurements. The tension tests will be performed in the Structural Materials Laboratory located in ECCE 1B52.

Lab #2: Torsion Tests of Cylindrical Steel and Cast Iron Specimens: Oct 1 - Oct 15, 2008

Involves stiffness, strength and ductility measurements of cast iron and mild steel bars. Note the torsion tests will be performed in the basement of the ITLL Laboratory. The meeting times of the torsion tests might have to change slightly depending on the availability of the torsion machine in the ITLL Laboratory.

Lab #3: Concrete Property Tests of Cylindrical Specimens: Oct 29 - Nov 12, 2008

Preparation of concrete test specimens on October 22. The actual concrete tests will be performed in the period October 29-November 12. They involve stiffness and strength measurements in axial compression, indirect tension (Brazilian test) and 3-point bending. All experiments will be performed in the Structural Materials Laboratory located in ECCE 1B52.

Note: October 22 all students need to convene in the smash lab to mix concrete and prepare a sufficient number of test specimens for compression, tension and flexural experiments in ECCE 1B52 (we will meet at the regular times 2:00pm, 3:00pm and 4:00pm).

Website CVEN 3161: Consult background material on CULearn. Detailed Laboratory Notes on the three laboratory experiments will be posted early in the semester.