School of Engineering
University of Guelph

ENGINEERING MECHANICS 2, ENGG*2160
Fall 2008

Instructors: Z. Salo, Room 306, THRN
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Text: Hibbeler, R.C., Mechanics of Materials, 7th edition, Pearson-Prentice Hall.

Schedule:

Lectures,	MWF	11:30 - 12:20 CRSC 116
Tutorials,	F	1:30 - 2:20 RICH 022
Midterm Exam	Week 7, time and location TBA	
Final Exam,	7:00 - 9:00, Tuesday, Dec. 2nd, location TBA	

Objectives: The objectives of this course are: (1) to understand the stress-strain behaviour of engineering materials in service, and (2) to develop adequate procedures for finding the required dimensions of a member of a specified material to carry a given load subject to stated specifications of stress and deflection.

Prerequisites:
ENGG*1210, Engineering Mechanics I
ENGG*1500 Engineering Analysis
0.5 credit in calculus

Topics of Study:
- Stress and Strain - Axial, Torsional & Flexural Loading
- Transformations of Stress and Strain
- Deflections of beams
- Columns

Method of Presentation: Lectures and problem solving/ tutorial periods. The tutorial periods will include literature reviews and problems compatible with the lecture materials to enhance understanding of the subject matter. The tutorial period is also the office hour. The students are welcome to bring in questions from preceding lecture periods.

Method of Evaluation: The final grade will be determined from the results of one final examination, one mid-term test, seven problem assignments and one independent project. You will hand in for marking ONE of the questions in the problem assignments. The specific problem will be announced prior to submission. Late submissions will not be accepted for marking. The individual marks will be weighted as follows:

Final examination	40%
Mid-term test	30%
Assignments	20%
Project	10%

You must have a passing cumulative average (i.e. 50% of 70% = 35% total) for the mid-term test and final examination to pass the course. If not, the course is failed automatically and the final mark is determined by multiplying the sum of the final examination and mid-term test marks by 100/70.