MEC E 380 LEC B1 Advanced Strength of Materials
January - April 2012

Objectives: Study advanced stress/strain analysis methods to examine load-carrying capacity of various structures/structural components in terms of strength/stiffness criteria.

Lectures: TR 0930 - 1050 MEC E 2-1
Seminars: F 0900 - 0950 MEC E 4-1

Instructor: Professor X.D. Wang
Office: Mec. Eng. 5-8E, Tel: 492 4517
E-mail: xiaodong.wang@ualberta.ca
Office Hours: Tuesday and Thursday 1100-1200 or by appointment

TAs: Chad Gawad, chad.gawad@ualberta.ca; Rifat Hossain, rhossain@ualberta.ca
Office Hours: Tuesday 12-2pm, Wednesday 3-5pm, Help Desk on 3rd floor of MEC E Building


Course Outline: Ugural, Chapters 1-3, 10, 5, 6. See attached course schedule for details.
Pre-requisite: MEC E 260, CIV E 270.

Examinations: Examinations are 'open book'. The textbook and a formula sheet are allowed.
Final - TBA.

Assignments: See attached sheet.
Seminars: Problem solving sessions/worked examples/Quizzes
- see attached sheet for suggested questions. Bring Textbook to seminars.

Final assessment: Seminar Quizzes 10%
Assignments (best 10) 10%
Midterm exam 30%
Final exam 50%

For midterm and final examinations, samples will be provided before the exams. The final grade of the course will be determined based on both the absolute mark and the mark distribution among students. (Note that if you miss the midterm examination, for a valid reason, your final examination will have a weight of 80%.)

"Policy about course outlines can be found in §23.4(2) of the University Calendar."

"The University of Alberta is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Code of Student Behavior (online at www.ualberta.ca/secretariat/appeals.htm) and avoid any behavior which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University."