

MEEG 5033 – Advanced Mechanics of Materials Fall 2012 Syllabus

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Lecture:

Monday / Wednesday / Friday, 9:30 – 10:20 am, MEEG 216

Office Hours:

Monday / Wednesday / Friday, 10:30 – 11:30 am, NANO 213 (or by appointment)

Text

Advanced Mechanics of Materials, Sixth Edition, Boresi and Schmidt, 2003.

Course Objectives

To provide students with a deeper understanding of the material covered in a first course in mechanics of materials and build upon the elementary concepts and processes that have been mastered. Practical stress analysis problems will be covered ranging from those resembling simple models that have closed form solutions to complex problems that are not easily adaptable to classical techniques.

Homework

Homework will be assigned at least one week prior to its due date. Assignments will be collected at the beginning of class on the due date. **No late homework assignments will be accepted without prior approval.** To receive full credit on each homework problem, solution must include all pertinent sketches or diagrams, equations, solutions and final answers with correct units. Homework must be legible and professional (neat, orderly, final solutions circled or boxed). Illegible homework solutions will be marked as incorrect. Homework solutions will be posted on Blackboard.

Exams

Three exams will be given during the semester. Exams will be “take home” exams assigned on the dates provided on the course schedule. Exams will consist primarily of numerical problems but may also include short answer problems as appropriate for the course material.

Grading

Homework (about 8 assignments): 20%

Exams (3 equally weighted): 80%

Course grades will be “curved” if necessary – this decision will not be made until the end of the semester once all exams and homework assignments are graded.