

EGM 3601 SOLID MECHANICS
HPA125, MW 4:30-5:45 PM

INSTRUCTOR

Dr. Jan Gou, Associate Professor

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Office Hours: MW, 2:00 pm - 4:00 pm; or by appointment

COURSE WEBSITE:

<http://www.webct.ucf.edu> (use your own ID and password)

PREREQUISITE

PR EGN 3310 Statics

CR MAP 2302 Differential Equations

TEXTBOOK

Mechanics of Materials, by Riley, W., Sturges, L., and Morris, D., 6th Edition, Wiley, 2007

CATALOGUE DESCRIPTION

Concepts of stress, strain, deflection; axial force, torsion, bending, combined stress, Mohr's circle, failure theories; design concepts, application to machines and vehicles.

COURSE OBJECTIVES

The student will be able to: (1) solve determinate and indeterminate statics problems, (2) determine stress and strain matrices, carry out transformations, obtain principal values apply uncertainty principles to stress/strain calculations, (3) apply appropriate strength theories (e.g. Von Mises and Tresca, (4) determine safety factors, and (5) apply (1-4) to simple systems containing rods, shafts, beams and/or inflated shells.

GRADING POLICY

Class Attendance	5%
Homework	25%
Design Project	5%
Term Exams	40%
Final Exam	25%
Total	100%

COURSE GRADE

The letter grade will be assigned according to the scale: A (90-100), B (80-89), C (70-79), D (60-69), and F (<60)

FINAL EXAM: 4:00 - 6:50 pm, December 12, 2007, Monday

CLASSROOM POLICY

1. Homework assignments will be announced in class and they are due at the beginning of the class period on the due day. Late homework will receive the grade of zero.
2. There will be three term exams plus a comprehensive final exam. All exams will be closed book. Sketches and all solutions must be shown clearly and neatly in your exam papers. All examinations missed due to illness or emergency require a written, verified excuse or a grade of zero will be assigned.
3. Class attendance is necessary for satisfactory performance. It is student's responsibility to find out about all the assignments and announcements made in class. The student is held responsible for all missed work and classroom information. Class roll will be taken at the beginning of the term to ensure that students are attending the correct class and section. Class rolls will not be taken each time, but may be taken at any time to identify absentees.
4. Cheating and plagiarism are serious academic matters and they will be handled by the following policy and by the University policy. A grade of zero is assigned for the entire assignment. For example, zero is assigned for the entire test and not for individual parts of the test. Automatic failure of the course can result from a zero grade on an individual assignment.
5. In accordance with Americans Disabilities Act, students with bona fide disabilities will be afforded reasonable accommodation. The Office of Student Disability Services will certify a disability and advise faculty members of reasonable accommodations. The Office of Student Disability Services is located in Ferrell Common, FC Room 132, Phone: (407) 823-2371.
6. Since all classes do not progress at the same rate, the instructor may wish to modify the syllabus requirements or their timing as circumstances dictate. For example, the instructor may wish to change the number and frequency of exams, or the number and sequence of assignments. If such a modification is warranted, students will be given adequate notification in writing.