MAE 206, Engineering Statics

Prerequisites: GPA = 2.5, C- or better in both PY 205 and MA 241
Co-requisite: MA 242
Text: Vector Mechanics for Engineers: Statics,
by Beer, Johnston, Mazurek, & Eisenberg, Ninth Edition

Please see complete syllabus in http://moodle.wolfware.ncsu.edu

Selected items:

Goals:
• Comprehend static equilibrium for rigid bodies;
• Model physical systems using free body diagrams;
• Classify types of problems;
• Solve for reaction forces and moments;
• Determine equivalent force systems;
• Calculate internal forces;
• Calculate centroids and moments of inertia.

Online: students will log into Moodle regularly to complete Quizzes & receive HW; exams are online.

Office hours in Elluminate: go to link below, log in with as a Guest with e-mail address & display name http://tinyurl.com/39g8fbs

Grades: Intro quizzes at the beginning of every class using TurningPoint clickers: 5% of semester grade
Quizzes in Moodle: 15% of semester grade
Three Midterms: 15% of semester grade each (computerized exams, taken in the classroom)
Homework: 10% of semester grade. Collected every week on Wednesdays.
Project in Matlab counts as one homework.
Cumulative Final exam: 25% of semester grade

Clickers: TurningPoint ResponseCard XR Clickers will be used in every class period. Students should purchase one -- see me for the university code discount.
Matlab and Maple: Mathematical software has become very powerful. Students are encouraged to use these programs for homework.

A+ rare B+ 84 – 86 C+ 74 – 76 D+ 64 – 66 F 0 – 56
A 90 – 100 B 80 – 83 C 70 – 73 D 60 – 63

• Expenses: The text and a clicker are required. Homework that is submitted on paper must be on engineering paper. No other expenses should be incurred
• No Laboratory or Transportation is required for this course.
• Disabilities Statement: Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with Disability Services for Students at Disability Services Office, Campus Box 7509, 919-515-7653 at Student Health Services Center, 2815 Cates Ave, Ste 1900, www.ncsu.edu/dso.

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