

## ***CE 560.206 Solid Mechanics and Theory of Structures- Spring 2005***

### **COURSE INFORMATION (last updated 1.24.05)**

Course Description: Application of the principles of structural analysis for statically determinant and indeterminate structures (trusses, cables, beams, arches, and frameworks). Calculation of internal forces and stresses in members and structures. Determination of deflections by equilibrium and energy methods. Analysis of indeterminate structures by flexibility and stiffness solutions.

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Office Hours: Tues. after seminar (4:50 – 5:50)  
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Lectures: Mon., Tues. & Wed., 1:00 – 1:50, 107 Latrobe Hall  
Thursday Discussion (mandatory), TBA

Required Text: Riley, Statics and Mechanics of Materials, 2<sup>nd</sup> Ed.  
Hibbeler, Structural Analysis, 5<sup>th</sup> Ed.

Optional Texts: Jennings, Structures from Theory to Practice  
West, Analysis of Structures, 2<sup>nd</sup> Ed.

Grading: Homework 25% (drop the one lowest homework)  
Quizzes 25% (drop the two lowest quizzes)  
Mid-term 25%  
Final 25%  
note: class participation and other factors may also be considered  
in final determination of your grade.