

CIVL-313 Structural Mechanics

Spring 2008

Instructor: Charles J. Roberts, PE, MS
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Office Hours: MW 9:00-9:50 AM, TF 10:00-10:50 AM

Course Information

Description: This course presents the fundamentals of structural analysis for beams, trusses and frames. Emphasis will be placed on developing an understanding of the mechanics of statically determinate and indeterminate structures. Methods of analysis for statically indeterminate structures and numerical methods applicable to computer analysis will be introduced.

Text: *Structural Analysis*, Latest Edition, A. Kassimali, PWS Publishing,.

Prerequisites: CIVL-311 Strength of Materials, CIVL-205 Engineering Problems.

Final Exam: Wednesday, May 21, 2008, 2:00 - 3:50 PM, LANGDON 105.

Grading: Final course grade will be weighted as follows:

Three Midterm Exams	50%
Comprehensive Final Exam	20%
Homework Assignments	10%
Computer Assignments	10%
<u>Design Project</u>	<u>10%</u>
Total	100%

Assignments: Substantial completion of homework assignments is required. Do not submit problem sets unless they are requested by the instructor. Homework will normally be due at the beginning of the class period. Late homework assignments will not be accepted. At the end of the semester all class work may be collected.

Problem assignments must be completed orderly and legibly on engineering paper, one side only, prior to the due date. Each homework problem must include a problem number, a complete problem statement with tabulated data, assumptions, and observations, as warranted, and must show all relevant work. The final answer(s) must be clearly indicated. Homework submittals failing to satisfy these criteria may not be graded and may receive a score of zero.

Exams: Exam solutions are to include all relevant work in a logical order, with explanations where necessary. Examinations are due when called. Points may be deducted for tardy submittals. Make-up examinations will not be given. A pro-rated examination score will be given for *excused* absences. Unexcused absences will yield an examination score of zero.

Design Project: Design, (and if time permits construction & testing), of a structure is required. It will be completed as a group activity, and requires a comprehensive design report.