

CEE159, Structural Analysis I Fall Semester, 2012

Instructor: Shamim Pakzad

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Office Hours: Tu. 10:50-11:30AM at FL 306; Tu. 3-4PM & Wed. 10-11AM ATLSS

Teaching Assistant: Chinmoy Kolay

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Office Hours: Mon. 4:15-5:15PM, Fri. 10-11 AM

Class Time and Location: Tuesday & Thursday 9:20-10:35 AM, at STEPS 290

Recitation: Wednesday 1:10-4:00 PM, at Maginnes Hall 102

Required Text: "Structural Analysis", 8th Edition, by R.C. Hibbeler, Prentice Hall,
ISBN: 978-0-13-257053-4.

Prerequisite: MECH 12

Conduct of Course

Attendance at lectures and recitation is mandatory. A student who misses the class or recitation without proper excuse will be dropped from the roster or heavily penalized. Bring a scientific calculator and the textbook to all classes and recitation.

Please do not use your CELL PHONE during the class and recitation. This includes TEXTING, EMAILING, or BROWSING the web. If you have to use your phone, excuse yourself from the class.

Assignments:

- Homework problems will be assigned (similar to the problems from the textbook) approximately twice every week and will be due by next class.
- Problem solutions must be submitted on 8 1/2 x 11 in. engineering computation paper, clipped/stapled at the upper left corner and the student's name should appear on each page.
- Each problem should start in a new page, and consist of: 1- given data, 2- statement of what is to be found, 3- the solution, and 4- the answer (see the sample HW on CourseSite).
- The units used must be those of the problem statement and included.
- Principal results must be clearly identified.
- Untidy solutions will not be accepted. Work should be done on one side of the paper only.
- Homework points will be deducted if any of the preceding requirements are not followed. Homework solutions will be available through the library system.
- Late assignments will not be accepted.

Examinations: Quizzes will be conducted at the end of the recitation sessions. Two midterm exams and a final exam will be scheduled for the class. No makeup midterm and final examination will be given except for emergency situations.

Grading: Homework & Quizzes: 30%; Midterm Exam: 35%; Final Exam: 30%;
Attendance and Instructor Evaluation: 5%

Key to grades:

A, A-	Excellent
B+, B,	Good
C+, C	Competent
C-	Continuation compete
D+, D.	Passing
F	Failure

Tentative Course Outline and Schedule

Reading Assignment

1	Course Introduction and Motivation	Chapter 1
	Superposition, Equilibrium, Determinacy and Stability	Chapter 2
2 & 3	Determinate Trusses	Chapter 3
3	Computer Aided Analysis	
4 & 5	Determinate Beams and Frames	Chapter 4
5 & 6	Cables and Arches	Chapter 5

MIDTERM EXAM 1

7 & 8	Influence Lines	Chapter 6
9 & 10	Deflection	Chapter 8
10 & 11	Energy Methods	Chapter 9

MIDTERM EXAM 2 (tentative)

12 & 13	Force Methods	Chapter 10
13 & 14	Approximate Methods	Chapter 7
14	Course Review, Make-up	

Accommodations for Students with Disabilities: If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services, University Center 212 (610-758-4152) as early as possible in the semester. You must have documentation from the Academic Support Services office before accommodations can be granted.

Academic integrity: There is a zero-tolerance policy for any violation of academic integrity. It is expected that each student will do the homework assignments and other course-related projects independently. Collaboration in the preliminary stages of each problem is permitted and encouraged. Each student assumes responsibility for every assignment or examination that he/she submits.