

CE 341 DESIGN OF CONCRETE STRUCTURES
Spring 2007, Section 2
MWF 11:15-12:05 am
207S Henderson South

Instructor: Eric Musselman (esm133@psu.edu)
3A Hammond Building (Mailbox 217 Sackett)

Teaching Assistant: Andy Coughlin (amc438@psu.edu)
105 Sackett Bulding

Office Hours: M 10-11a.m. (Musselman)
W 12:15-1:15 p.m.
MW 3 :30-5 p.m. (Coughlin)
TR 1 :30-4 :30 p.m.

Prerequisites: CE 340, CE 336 (or concurrent)

CEE Program Outcomes Mapped to this course:

- (4) An ability to design a system, component, or process to meet desired needs
- (9) An ability to identify, formulate, and solve engineering problems

Course Objectives:

- Understand the interaction between analysis and design
- Develop understanding of structural concrete design based on fundamental theories
- Develop knowledge of the use of the ACI 318-05 design code
- Exposure to the concept of structural concrete building systems within the framework of a clearly defined design project

TEXT: *Reinforced Concrete*, 4th edition, by MacGregor and Wight
*ACI Building Code Requirements for Structural Concrete (318-05) and
Commentary (318R-05)* (purchase at Engineering copy center)
CE 341 Student Packet (purchase at Engineering copy center)

WEB PAGE: General course information will be listed on Angel along with homework assignments, homework solutions, structures links, and announcements. Make a habit of checking your email daily. I occasionally send announcements, reminders, and homework hints via email.

HOMEWORK/

PROJECT: Problem sets will generally be assigned weekly and are due by 11:15am (beginning of class) one week after they are assigned unless otherwise specified. You may turn the assignments in during class or at my mailbox in Sackett 217. Your solutions should be neatly organized on engineering paper with each problem on a separate page (use the front of the paper only). **Late assignments will not be accepted.**
A design project will be integrated into the course, with the final report due toward the end of the semester. Individual portions of the project will be assigned as homework during the semester and will count toward your homework grade.

EXAMS: Exams will be held in the evening in order to allow adequate time. Dates for the exams are given below so that you can arrange your schedule accordingly. Makeup exams will only be arranged in special circumstances. Please inform me as soon as possible if you have a conflict. If you do not inform me by the beginning of the exam, you will not have the opportunity for a makeup exam.

Exam schedule:

Exam 1 6:30-7:45pm, Wednesday, February 21 in 113 IST Building

Exam 2 6:30-7:45pm, Wednesday, April 4 in 109 Osmond Bld.

Final Exam TBA

GRADES: The final course grade will be weighted as follows:

Exam 1 20%

Exam 2 20%

Homework/Project Submittals 25%

Final Project 10%

Final Exam 25%

Academic Honesty (*From <http://www.psu.edu/ufs/policies/>*)

49-20 Academic Integrity

Definition and expectations: Academic integrity is the pursuit of scholarly activity in an open, honest and responsible manner. Academic integrity is a basic guiding principle for all academic activity at The Pennsylvania State University, and all members of the University community are expected to act in accordance with this principle. Consistent with this expectation, the University's Code of Conduct states that all students should act with personal integrity, respect other students' dignity, rights and property, and help create and maintain an environment in which all can succeed through the fruits of their efforts.

Academic integrity includes a commitment not to engage in or tolerate acts of falsification, misrepresentation or deception. Such acts of dishonesty violate the fundamental ethical principles of the University community and compromise the worth of work completed by others.

To protect the rights and maintain the trust of honest students and support appropriate behavior, faculty and administrators should regularly communicate high standards of integrity and reinforce them by taking reasonable steps to anticipate and deter acts of dishonesty in all assignments (Senate Policy 44-40: Proctoring of Examinations). At the beginning of each course, it is the responsibility of the instructor to provide students with a statement clarifying the application of University and College academic integrity policies to that course.