DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
TENTATIVE COURSE OUTLINE

CE 4620 (238) - Reinforced Concrete Structures Design
Fall 2009
MWF 8 – 9 AM, CAST 201

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Office hours: MWF 9-10
OR anytime I am in my office

Texts: *Design of Reinforced Concrete*, McCormac and Brown, 8th edition
ACI Building Code Requirements and Commentary for Reinforced Concrete (ACI 318-08)

Prerequisites: CE 3610 (234) and CE 3620 (236)

No. of Classes	Topic	Reading in McCormac (**Ch** = Chapter; pg. = page; pp. = pages, Ex. = Example)
1	Introduction	Ch. 1
2	Flexural Analysis of Beams	Ch. 2
2	Strength Analysis of Beams	Ch. 3
5	Design of Rectangular Beams and One-way Slabs	Ch. 4
5	Analysis and Design of T Beams and Doubly Reinforced Beams	Ch. 5
3	Serviceability	
1	Crack control	6.9-12
2	Deflections	6.1-8
2	Development, Hooks, Splices	7.1-10
2	Shear friction, brackets	8.12
11	Columns	
1	General	Ch. 9
5	Design of short columns	Ch. 10
5	Slender Columns	Ch. 11
4	Footings	Ch. 12
[3]	[Torsion – time permitting]	**[Ch. 15]**
4	Two-way slabs	Ch. 16
1	Prestressed Concrete – Introduction	Ch. 19

Distribution of points

Assignment	No.	Points
Homework	-	15
Test	1	25
Course project	1	25
Final	1	35

Any changes in course content will be announced in class or by UConn administration.