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TEACHING ASSISTANT: Primary: Jenny Turner Weil 465 hyper2@ufl.edu
Secondary: Rachel Conn Weil 480A gatorrac@ufl.edu

OBJECTIVE: Introduction to the basics of structural design in reinforced concrete using current design codes. Students are expected to become proficient in this basic knowledge.

TIME: M, W, F - 5th Period - Little Hall xxx W - 6th Period - CSE xxx

TEXTS : McCormac and Nelson, *Design of Reinforced Concrete*, 6th Edition, Wiley, 2005
ISBN: 0471487368

ACI 318-02, *Building Code Requirements for Structural Concrete*, American Concrete Institute, 2002 (Available for purchase thru instructor during first week of class - approximately \$58.00)

Class Notes and Supplemental Material (Available for purchase through ASCE)

WEB PAGES: <http://ces3741.home.mindspring.com> For homework and quiz solutions
<http://www.mindspring.com/~sputoeng/default.htm> Sputo's general web page

GRADING CRITERIA: (14) One-Hour Quizzes 85%
Homework 10%
Attendance 05%

MAXIMUM GRADING SCALE: (May be relaxed at the option of the instructor)

93 - 100	A
90 - 92.99	B+
85 - 89.99	B
83 - 84.99	C+
77 - 82.99	C
75 - 76.99	D+
70 - 74.99	D
00 - 69.99	E

RULES FOR BETTER LIVING:

1. Attendance at lecture is mandatory and timeliness is important. Attendance will be taken at the beginning of class. Attendance grade will be based on the percentage of class sessions attended. For basis of computing grades, there will be no "excused absences".
2. Each lesson requires preparation by the student prior to the lecture. ACI 318 and textbook are required for all lectures.

3. Quiz Information: Quizzes are closed textbook, closed note. You are allowed to have your copy of ACI 318, a calculator, and a copy of the “Class Equation Sheet” with any supplemental information that you write on it yourself. The “Class Equation Sheet” must be turned in with your quiz, and will not be returned.
4. Homework will be assigned each class meeting. Working with fellow students on homework will be allowed as “self-help”, but the final homework which is turned in must represent the work of the individual student. Do not copy another student’s work. Homework will be compared and violations will be dealt with. Assigned homework will be due the following class meeting date, at the beginning of the 5th period class meeting. **Late homework may be turned in no later than the start of the next class meeting after the due date with a 25% penalty.** Homework not turned in by that date will not be accepted
 - a. Homework will be submitted on engineering computation paper or as computer output (**DO NOT RE-USE PAPER!**) **ONLY ONE PROBLEM PER SHEET**. Number and label all pages. **Work neatly. All work will be graded on the basis of content and neatness. Use straightedges**, reasonable scales, use pencil (that means also using an eraser), and print and label clearly. Reference equations to ACI 318 (i.e.: ACI Eqn. 10-2). List assumptions or rationale for your work. **Sloppy or difficult to follow work will be returned ungraded. No exceptions.**
5. The lowest of the 14 quiz grades will be dropped for purposes of computing final grades.
6. No make-up work or quizzes will be allowed, except in cases of emergencies or civic responsibilities (jury duty, etc.), provided that the instructor is notified by e-mail in advance. Provisions for make-up work will be determined on a case-by-case basis. The decision of the instructor is final.
7. Some class communication will be by means of e-mail. Check your e-mail regularly (at least daily). Keep the instructor informed of any changes to your e-mail address. Failure on the part of the student to keep-up with e-mail communications is not excusable.
8. Solutions will be posted to the class web site for a period of 2 weeks after the due date, at which time they will be removed.
9. Grade Appeals:

General: At any time that you do not understand the solution to a quiz or homework problem, please see either Jenny Turner or Dr. Sputo. We will be happy to assist. However, if you believe that a grade was assigned in error, please comply with the following procedures:

Quiz: Please carefully consider what you did wrong. If you still believe that an incorrect grade has been assigned, you must make your case in writing only. Verbal requests will not be considered. You must provide substantial information as to why your grade should be changed. Your request for re-grade must be received no later than 10 calendar days after the quiz date. After that date, no requests will be considered. Turn in your request to Dr. Sputo.

Homework: Please carefully consider what you did wrong. If you still believe that an incorrect grade has been assigned, you must make your case in writing only. Verbal requests will not be considered. You must provide substantial information as to why your grade should be changed. Your request for re-grade must be received no later than 10 calendar days after the homework due date. After that date, no requests will be considered. Turn in your request to Jenny Turner.

General Grading Rules

It is not the responsibility of the course instructor or TA to try to decipher your work. It should be clear what your intent is, and easy to follow in a logical sequence. Due to recurring problems each semester, the following criteria are set.

The following criteria will be used in grading homework:

Homework with more than 1 problem per sheet:	Minus 1 point out of 10
Lines drawn freehand (i.e.: no straightedge)	Minus 1 point out of 10
Work otherwise sloppy or difficult to follow	Minus 1 to 7 points out of 10

For quizzes, the following criteria will be used in grading:

Lines drawn freehand (i.e.: no straightedge)	Minus 10 points out of 100
Work otherwise sloppy or difficult to follow	Minus 10 to 25 points out of 100

These point deductions will be applied as the instructor or TA sees fit. We like to assign partial credit for problems with incorrect answers, but if we cannot follow or otherwise decipher your work to find the incorrect step without expending excessive effort, we cannot assign partial credit.

IMPORTANT UNIVERSITY INFORMATION:

Academic Honesty:

All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a student at the University of Florida and to be honest in all work submitted and exams taken in this class and all others.

Accommodations for Students with Disabilities:

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation.

TENTATIVE LECTURE SCHEDULE
(Subject to modification)

Class No.	Date	Topic	Text	HW	HW Due
1	05 Jan	Introduction			
2		Introduction			
3	07 Jan	Design Methods	Chapter 1; 4.1		
4	10 Jan	Design Methods	Chapter 1; 4.1	(HW1) 4.1, 4.2, 4.4(a)(b)	12 Jan
5	12 Jan	Material Properties	Chapter 1	(HW2) 1.1 thru 1.8	14 Jan
6		Quiz 1 (Statics, Strength of Materials)			
7	14 Jan	Analysis Under Service Loads	Chapter 2	(HW3) 2.1, 2.2, 2.3	19 Jan
	17 Jan	No Class - MLK Day			
8	19 Jan	Analysis Under Service Loads	Chapter 2	(HW4) 2.8, 2.9 Calculate Icr only	21 Jan
9		Quiz 2			
10	21 Jan	Analysis Under Service Loads	Chapter 2	(HW5) 2.12 Calculate Icr only	24 Jan
11	24 Jan	Flexure - Strength Design	2.4; Chapter 3	(HW6) 2.30, 2.34	26 Jan
12	26 Jan	Flexure - Strength Design	Chapter 3	(HW7) 2.26, 2.28, 2.32	28 Jan
13		Quiz 3			
14	28 Jan	Singly Reinforced Rectangular Section - Analysis	Chapter 3	(HW8) 3.7	31 Jan
15	31 Jan	Singly Reinforced Rectangular Section - Analysis	Chapter 3	(HW9) 3.8, 3.9	04 Feb
16	02 Feb	Singly Reinforced Rectangular Section - Design	4.2 - 4.3	(HW10) 4.6, 4.8 Disregard ρ recommendation	04 Feb
17		Quiz 4			

Class No.	Date	Topic	Text	HW	HW Due
18	04 Feb	Singly Reinforced Rectangular Section - Design	4.2 - 4.3	(HW11) 4.21, 4.22	07 Feb
19	07 Feb	One Way Slabs	4.7	(HW12) 4.25, 4.33	09 Feb
20	09 Feb	One Way Slabs - Temp. Steel	4.7	(HW13) 4.26	11 Feb
21		Quiz 5			
22	11 Feb	T-Beam Sections	5.1 - 5.4	(HW14) 5.5, 5.6	14 Feb
23	14 Feb	T-Beam Sections	5.1 - 5.4	(HW15) 5.18, 5.22	16 Feb
24	16 Feb	T-Beam Sections	5.1 - 5.4	(HW16) 5.21, 5.40	18 Feb
25		Quiz 6			
26	18 Feb	Doubly Reinforced Rectangular Sections	5.7 - 5.8	(HW17) 5.26, 5.27	21 Feb
27	21 Feb	Doubly Reinforced Rectangular Sections	5.7 - 5.8	(HW18) 5.28, 5.29	23 Feb
28	23 Feb	TBD - (Sputo @ AISI COS - Rachel in Charge ... Beware!)			25 Feb
29		Quiz 7			
30	25 Feb	Doubly Reinforced Rectangular Sections	5.7 - 5.8	(HW19) 5.33, 5.44	07 Mar
	28 Feb-04 March	Spring Break			
31	07 March	Serviceability: Deflections	6.1 - 6.8	(HW20) 6.1, 6.2, 6.3, 6.4	09 Mar
32	09 March	Serviceability: Deflections	6.1 - 6.8	(HW21) 6.5, 6.11	11 Mar
33		Quiz 8			
34	11 March	Serviceability: Cracking	6.9 - 6.12	(HW22) 6.15, 6.20 Calculate max. bar spacing only.	14 Mar

Class No.	Date	Topic	Text	HW	HW Due
35	14 March	Bond and Anchorage	7.2		
36	16 March	Development Length, Standard Hooks	7.3; 7.5; 7.7; 7.8	(HW23) 7.6, 7.7, 7.21	18 Mar
37		Quiz 9			
38	18 March	Bar Splices	7.12 - 7.14; 7.16	(HW24) 7.26, 7.30, 7.35	21 Mar
39	21 March	Shear	8.1 - 8.7		
40	23 March	Shear	8.8 - 8.11	(HW25) 8.5, 8.6	25 Mar
41		Quiz 10			
42	25 March	Shear	8.8 - 8.11	(HW26) 8.7, 8.9	28 Mar
43	28 March	Shear	8.8 - 8.11	(HW27) 8.14	30 Mar
44	30 March	Short Columns	9.1 - 9.7	(HW28) 9.5, 9.6	01 Apr
45		Quiz 11			
46	01 April	Short Columns	9.9; 9.11	(HW29) 9.8, 9.19	04 Apr
47	04 April	Short Columns	10.1; 10.3 - 10.6; 10.10	(HW30) 9.9, 10.3	06 Apr
48	06 April	Short Columns	10.1; 10.3 - 10.6; 10.10	(HW31) 10.4, 10.7	11 Apr
49		Quiz 12			
	08 April	No Class - Conf.			
50	11 April	Short Columns	10.1; 10.3 - 10.6; 10.10	(HW32) 10.5, 10.6	13 Apr

Class No.	Date	Topic	Text	HW	HW Due
51	13 April	Short Columns	10.1; 10.3 - 10.6; 10.10	(HW33) 10.12, 10.14, 10.24	15 Apr
52		Quiz 13			
53	15 April	Footings (Square)	12.1 - 12.4; 12.6	(HW34) 12.8	18 Apr
54	18 April	Footings (Wall)	12.5	(HW35) 12.2	20 Apr
55	20 April	Quiz 14			
56		Instructor Evaluation			

This short paper by Professor Yao from Texas Tech is a pretty good summary of my thoughts and philosophy on grades. I could not have said it better than this.

Sputo

ON GRADES AND GRADING

by James T. P. Yao for his students and interested colleagues

The grade in a given course is a measure of the student's performance in that endeavor. The overall grade point averages are indeed important considerations for all students. When I was a student at the University of Illinois in Urbana-Champaign, I did care about my grades at that time. However, I never complained about any of my grades though, at times, I felt that the grade I received in a particular course might not be fair. The fact is, on the average, the overall grade point average did reflect the knowledge gained and the effort that I put into my college education. There were courses for which I thought that I deserved a better grade than the one on my record. On the other hand, I also had grades that were better than what I expected and/or deserved. In the long run, they all averaged out at the end of my college career. Most importantly, I learned from each professor and from each course that I had.

A few years after I graduated, I forgot all my grades. No one has ever asked for my grades just a few years after I graduated from college. To date, however, I have kept all the basic knowledge that I gained from my college education. Especially, the method of learning new things on my own has been useful. If the students aim at learning as much as they can from each course and each professor, the good grades will come as a result of their diligent work, on the average. On the other hand, if the students waste their time arguing about their grades, they will lose time for studying new lessons and thus hurt their future grades.

As a teacher, I try very hard to be fair and consistent in grading student papers. The student will get a perfect score if he/she gives a correct answer. If the answer is not correct, the teacher is the one who judges how serious the error is and assigns a partial score accordingly. As a student, I had several professors who did not give partial scores. The reason was that, the engineering system could fail with the wrong answer, no matter how close the answer is to the correct one (e.g., exactly the same number but with a wrong sign). I do not agree with that policy but respect their judgement in those courses. In any event, partial scores are subjective depending on the experience and viewpoints of the individual teachers. It is counter-productive to argue about it.

Please be careful in doing your homework, tests, and other assignments. People's lives and properties will depend on your work someday in the near future. Try to learn as much as you can while you are in school. Communicate with your teachers and classmates frequently, and concentrate on the learning process. With knowledge, you will become a successful and proud engineer soon. **HAVE KNOWLEDGE, WILL SUCCEED!**