

Fall 2015

ENCE 3356

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SYLLABUS**ENCE 3356 STRUCTURAL ANALYSIS****FALL 2015**

Date	TOPIC	READING	hk	HWK PROBLEMS	COMMENTS
8-19	Structural <u>Loads, Codes</u>	1.1-4, 2.1-9	1	2.5, 2.6, 2.12	HW #1 optional
8-24	Supports, <u>Reactions</u> , equilibrium	3.1-3.7	2	3.1, 3.2, 3.16, 3.26	
8-26	<u>Trusses</u> , method of the joints	4.1 & 4.5	3	4.13, 4.16, 4.23 (see note)	NOTE: 23- ptB is hinge supt
8-31	Trusses, method of moments	4.2-4.6	4	4.3, 4.4, 4.32, 4.35, handout	
9-2	<u>Beams & Frames</u> : Q,S,&M	5.1-5.5	5	5.1, 5.6, 5.10	9/8 last day to drop w/o "w"
9-7	Happy Holiday!				LABOR DAY
9-9	Computer program	Appd C			
9-14	Beams: Q,S,&M diagrms	5.6	6	5.31, 5.36, 5.37	
9-16	Frames: S&M diagrams ,		7	5.55, 5.59, 5.64	
9-21	TEST 1		8	17.3,17.6,17.8,17.9	HW#8 due last day of class
9-23	<u>Cable structures</u>	Handout	9	Handouts	LCECS 9/23-24
9-28	Cable structures, continued				
9-30	Hurricane day?/guest speaker				
10-5	<u>Influence lines</u>	8.1-8.3	10	8.2, 8.5, 8.6	
10-7	Using influence lines	9.1-9.4	11	9.13, handout	
10-12	TEST II				
10-14	Guest speaker?				10/14 Last day to drop w/"w"
10-19	<u>Deflections</u> : superposition, momt area	6.1, 6.3	12	Handout	
10-21	Moment area	6.4, 6.5	13	6.9, 6.15, 6.26, 6.31	
10-26	Conjugate beam	6.6	14	6.52, 6.53, 6.57	
10-28	Guest speaker?				
11-2	Virtual work - trusses	7.1-7.3	15	7.5	
11-4	Take Home TEST III				TEST III - Due Nov 11
11-9	Virtual work - beams and frames	7.4, 7.5	16	7.20, 7.26, 7.36	
11-11	<u>Approximate methods</u> : gravity loads	12.1-12.4			
11-16	Portal Method	12.1-12.4	17	12.12	
11-18	Class cancelled-if no hurricane days				
11-23	<u>Moment Distribution</u> : beams	17.1-17.3	18	16.8, 16.11	
11-25	MD: Beams & frames w/o sidesway	17.4	19	16.20	
11-30	MD: frames w/ sidesway	17.5	20	16.25	
12-2	TEST IV				

****Note:** All reading assignments are due at the beginning of the class period where they are listed. All homework assignments are due the following class period as listed. This syllabus is subject to change.