

Date	Day	Asgt	Articles	AEM 250 Fall 2017 Topics	Problems Assigned
08/23	W	1	Ch. 1.,2.1-2, App. A-B	Introduction, Normal Stress	2.2-6, 11, 14
08/25	F	2	2.3-4	Extensional Strain, Stress-Strain Diagrams	2.3-1, 5, 9
08/28	M	3	2.5-6	Temp. Effects, Hooke's Law & Poisson's Ratio	2.3-16, & 2.4-5 & 2.6-5
08/30	W	4	2.7	Shear Stress and Strain; Equilibrium for Shear Stress States	2.7-1, 6, 8
09/01	F	5	2.8-9	Design, Stresses on an Inclined Plane	2.8-7, 8, 15
09/04	M		HOLIDAY		
09/06	W	6	2.10-11	St. Venant's Principle, E-G-nu Relation	2.9-3, 6, 7
09/08	F	7	2.12	General Stress and Strain	2.12-1, 6, 7
09/11	M	8	2.13	3-D Hooke's Law	2.13-2, 3, 5
09/13	W	9	3.1-4	General Axial Deformation Members	3.3-6, 10
09/15	F	10	3.1-4	Uniform Determinate Axial Deformation Members	3.4-2, 3, 10
09/18	M	11	3.5	Indeterminate Axial Deformation Members	3.5-2, 5, 11
09/20	W			Questions/Answers & Night Exam	
09/22	F	12	3.6-7	Thermal Stresses, Misfits	3.6-8, 14 & 3.7-5
09/25	M	13	4.1-3	Torsion	4.3-2, 11, 12
09/27	W	14	4.4-5	Testing, Torsion of Systems	4.4-5, & 4.5-3, 9
09/29	F	15	4.6-7	Indeterminates in Torsion	4.6-2, 14, 17
10/02	M	16	5.1-2	Equilibrium of Beams	5.2-9, 12, 16
10/04	W	17	5.3-5	Shear and Moment Diagrams	5.5-11, 12, 14
10/06	F	18	App. C.1-2	Moments of Inertia	Handout on website
10/09	M	19	6.1-3	Strain-Displacement Analysis of Beams	6.2-1, & 6.3-1, 3
10/11	W	20	6.3-4	Flexural Stresses in Beams, Beam Design	6.3-8, 19 & 6.4-1
10/13	F	21	6.8-9	Transverse Shear Stresses in Beams	6.8-4, 11, 12
10/16	M	22	6.8-9	Transverse Shear Stresses in Beams	6.8-3, 9
10/18	W			Questions/Answers & Night Exam	
10/20	F	23	7.1-3	Beam Deflection	7.3-2, 4, 5
10/23	M	24	7.1-3	Beam Deflection-Matching Boundary Conditions	7.3-12, 13
10/25	W	25	7.4	Indeterminate Beams	7.4-2, 5
10/27	F			CLASSES DISMISSED	
10/30	M	26	8.1-3	Stress Transformation	8.3-1, 5
11/01	W	27	8.4-5	Maximum Stresses/2D Mohr's Circle	8.4-5 & 8.5-20
11/03	F	28	8.5	2D Mohr's Circle	8.5-5, 13, 25
11/06	M	29	8.6	3D Mohr's Circle, Absolute Maximum Shear Stress	8.6-1, 7, 9
11/08	W	30	8.7-8	Plane Strain Transformation	8.8-7, 9, 11
11/10	F	31	8.9-11	Strain Gages, Mohr's Circle for Strain	8.9-6 & 8.10-4
11/13	M	32	9.1-2	Thin Walled Pressure Vessels	9.2-3, 6
11/15	W	33	9.4	Combined Loading	Handout on website
11/17	F	34	9.4	Combined Loading	9.4-6, 13
11/20	M	35	10.1-2	Buckling of Pin-Ended Columns	10.2-1, 10
11/22	W		HOLIDAY		
11/24	F		HOLIDAY		
11/27	M	36	10.3	Column End Conditions	10.3-8, 9, 11
11/29	W			Questions/Answers & Night Exam	
12/01	F	37	12.1-2	Stress Concentrations	12.2-1, 5, 17
12/04	M	38	12.3	Failure Criteria for Ductile Materials	12.3-3, 13
12/06	W	39	12.3	Failure Criteria for Brittle Materials	12.3-9, 14
12/08	F			Question/Answer Session	

09/20	7:00 PM	EXAM 1--Chapters 1-2
10/18	7:00 PM	EXAM 2--Chapters 3-6
11/29	7:00 PM	EXAM 3--Chapters 7-9
		FINAL EXAM--Set by University--refer to MyBama