

Date	Day	Asgt	Articles	AEM 250 Spring 2018 Topics	Problems Assigned
01/10	W	1	Ch. 1.,2.1-2, App. A-B	Introduction, Normal Stress	2.2-1, 7, 13
01/12	F	2	2.3-4	Extensional Strain, Stress-Strain Diagrams	2.3-1, 7, 9
01/15	M		HOLIDAY		
01/17	W	3	2.5-6	Temp. Effects, Hooke's Law & Poisson's Ratio	2.3-17, & 2.4-5 & 2.6-5
01/19	F	4	2.7	Shear Stress and Strain; Equilibrium for Shear Stress States	2.7-1, 3, 5
01/22	M	5	2.8-9	Design, Stresses on an Inclined Plane	2.8-5, 7, 15
01/24	W	6	2.10-11	St. Venant's Principle, E-G-nu Relation	2.9-1, 4, 7
01/26	F	7	2.12	General Stress and Strain	2.12-1, 6, 7
01/29	M	8	2.13	3-D Hooke's Law	2.13-2, 5, 8
01/31	W	9	3.1-4	General Axial Deformation Members	3.3-7, 10
02/02	F	10	3.1-4	Uniform Determinate Axial Deformation Members	3.4-1, 3, 10
02/05	M	11	3.5	Indeterminate Axial Deformation Members	3.5-2, 5, 12
02/07	W			Questions/Answers & Night Exam	
02/09	F	12	3.6-7	Thermal Stresses, Misfits	3.6-8, 14 & 3.7-3
02/12	M	13	4.1-3	Torsion	4.3-2, 8, 11
02/14	W	14	4.4-5	Testing, Torsion of Systems	4.4-7, & 4.5-3, 7
02/16	F	15	4.6-7	Indeterminates in Torsion	4.6-1, 7, 14
02/19	M	16	5.1-2	Equilibrium of Beams	5.2-9, 12, 16
02/21	W	17	5.3-5	Shear and Moment Diagrams	5.5-11, 12, 14
02/23	F	18	App. C.1-2	Moments of Inertia	Handout on website
02/26	M	19	6.1-3	Strain-Displacement Analysis of Beams	6.2-1, & 6.3-1, 3
02/28	W	20	6.3-4	Flexural Stresses in Beams, Beam Design	6.3-11, 25 & 6.4-1
03/02	F	21	6.8-9	Transverse Shear Stresses in Beams	6.8-4, 7, 12
03/05	M	22	7.1-3	Beam Deflection	7.3-4, 5, 8
03/07	W			Questions/Answers & Night Exam	
03/09	F	23	7.1-3	Beam Deflection-Matching Boundary Conditions	7.3-12, 13
03/12	M			CLASSES DISMISSED--Spring Break	
03/14	W			CLASSES DISMISSED--Spring Break	
03/16	F			CLASSES DISMISSED--Spring Break	
03/19	M	24	7.4	Indeterminate Beams	7.4-1, 5
03/21	W	25	8.1-3	Stress Transformation	8.3-1, 5
03/23	F	26	8.4-5	Maximum Stresses/2D Mohr's Circle	8.4-5 & 8.5-16
03/26	M	27	8.5	2D Mohr's Circle	8.5-5, 13, 25
03/28	W	28	8.6	3D Mohr's Circle, Absolute Maximum Shear Stress	8.6-1, 7, 9
03/30	F	29	8.7-8	Plane Strain Transformation	8.8-7, 9, 11
04/02	M	30	8.9-11	Strain Gages, Mohr's Circle for Strain	8.9-6 & 8.10-3
04/04	W	31	9.1-2	Thin Walled Pressure Vessels	9.2-2, 7
04/06	F			CLASSES DISMISSED--Honors Day	
04/09	M	32	9.4	Combined Loading	Handout on website
04/11	W	33	9.4	Combined Loading	9.4-5, 11
04/13	F	34	10.1-2	Buckling of Pin-Ended Columns	10.2-1, 15
04/16	M	35	10.3	Column End Conditions	10.3-8, 9, 11
04/18	W			Questions/Answers & Night Exam	
04/20	F	36	12.1-2	Stress Concentrations	12.2-1, 5, 17
04/23	M	37	12.3	Failure Criteria for Ductile Materials	12.3-3, 13
04/25	W	38	12.3	Failure Criteria for Brittle Materials	12.3-9, 14
04/27	F			Question/Answer Session	

02/07	7:00 PM	EXAM 1--Chapters 1-2
03/07	7:00 PM	EXAM 2--Chapters 3-6
04/18	7:00 PM	EXAM 3--Chapters 7-9
		FINAL EXAM--Set by University--refer to MyBama