

Day	Asgt	Articles	AEM 250 Fall 2018 Topics	Problems Assigned
W	1	Ch. 1.,2.1-2, App. A-B	Introduction, Normal Stress	2.2-4, 6, 14
F	2	2.3-4	Extensional Strain, Stress-Strain Diagrams	2.3-3, 7, 9
M	3	2.5-6	Temp. Effects, Hooke's Law & Poisson's Ratio	2.3-17, & 2.4-3 & 2.6-1
W	4	2.7	Shear Stress and Strain; Equilibrium for Shear Stress States	2.7-1, 7, 13
F	5	2.8-9	Design, Stresses on an Inclined Plane	2.8-6, 9, 15
M		HOLIDAY		
W	6	2.10-11	St. Venant's Principle, E-G-nu Relation	2.9-3, 7, 9
F	7	2.12	General Stress and Strain	2.12-1, 5, 6
M	8	2.13	3-D Hooke's Law	2.13-2, 3, 5
W	9	3.1-4	General Axial Deformation Members	3.3-8, 10
F	10	3.1-4	Uniform Determinate Axial Deformation Members	3.4-3, 6, 10
M	11	3.5	Indeterminate Axial Deformation Members	3.5-2, 5, 12
W			Questions/Answers & Night Exam	
F	12	3.6-7	Thermal Stresses, Misfits	3.6-8, 13 & 3.7-6
M	13	4.1-3	Torsion	4.3-2, 11, 12
W	14	4.4-5	Testing, Torsion of Systems	4.4-6 & 4.5-3, 11
F	15	4.6-7	Indeterminates in Torsion	4.6-2, 7, 14
M	16	5.1-2	Equilibrium of Beams	5.2-3, 9, 16
W	17	5.3-5	Shear and Moment Diagrams	5.5-1, 11, 14
F	18	App. C.1-2	Moments of Inertia	Handout on website
M	19	6.1-3	Strain-Displacement Analysis of Beams	6.2-1, & 6.3-1, 3
W	20	6.3-4	Flexural Stresses in Beams, Beam Design	6.3-10, 17 & 6.4-2
F	21	6.8-9	Transverse Shear Stresses in Beams	6.8-4, 11, 12
M	22	6.8-9	Transverse Shear Stresses in Beams	6.8-3, 9
W			Questions/Answers & Night Exam	
F	23	7.1-3	Beam Deflection	7.3-2, 4, 5
M	24	7.1-3	Beam Deflection-Matching Boundary Conditions	7.3-12, 13
W	25	7.4	Indeterminate Beams	7.4-2, 5
F			CLASSES DISMISSED	
M	26	8.1-3	Stress Transformation	8.3-1, 5
W	27	8.4-5	Maximum Stresses/2D Mohr's Circle	8.4-5 & 8.5-20
F	28	8.5	2D Mohr's Circle	8.5-5, 13, 25
M	29	8.6	3D Mohr's Circle, Absolute Maximum Shear Stress	8.6-1, 7, 9
W	30	8.7-8	Plane Strain Transformation	8.8-7, 9, 11
F	31	8.9-11	Strain Gages, Mohr's Circle for Strain	8.9-6 & 8.10-5
M	32	9.1-2	Thin Walled Pressure Vessels	9.2-3, 6
W	33	9.4	Combined Loading	Handout on website
F	34	9.4	Combined Loading	9.4-6, 9
M	35	10.1-2	Buckling of Pin-Ended Columns	10.2-1, 10
W		HOLIDAY		
F		HOLIDAY		
M	36	10.3	Column End Conditions	10.3-8, 9, 11
W			Questions/Answers & Night Exam	
F	37	12.1-2	Stress Concentrations	12.2-1, 5, 17
M	38	12.3	Failure Criteria for Ductile Materials	12.3-3, 13
W	39	12.3	Failure Criteria for Brittle Materials	12.3-9, 14
F			Question/Answer Session	

09/19	7:00 PM	EXAM 1--Chapters 1-2
10/17	7:00 PM	EXAM 2--Chapters 3-6
11/28	7:00 PM	EXAM 3--Chapters 7-9