

Date	Day	Asgt	Articles	AEM 250 Fall 2018 Topics	Problems Assigned
08/22	W	1	Ch. 1.,2.1-2, App. A-B	Introduction, Normal Stress	2.2-4, 6, 14
08/24	F	2	2.3-4	Extensional Strain, Stress-Strain Diagrams	2.3-3, 7, 9
08/27	M	3	2.5-6	Temp. Effects, Hooke's Law & Poisson's Ratio	2.3-17, & 2.4-3 & 2.6-1
08/29	W	4	2.7	Shear Stress and Strain; Equilibrium for Shear Stress States	2.7-1, 7, 13
08/31	F	5	2.8-9	Design, Stresses on an Inclined Plane	2.8-6, 9, 15
09/03	M		HOLIDAY		
09/05	W	6	2.10-11	St. Venant's Principle, E-G-nu Relation	2.9-3, 7, 9
09/07	F	7	2.12	General Stress and Strain	2.12-1, 5, 6
09/10	M	8	2.13	3-D Hooke's Law	2.13-2, 3, 5
09/12	W	9	3.1-4	General Axial Deformation Members	3.3-8, 10
09/14	F	10	3.1-4	Uniform Determinate Axial Deformation Members	3.4-3, 6, 10
09/17	M	11	3.5	Indeterminate Axial Deformation Members	3.5-2, 5, 12
09/19	W			Questions/Answers & Night Exam	
09/21	F	12	3.6-7	Thermal Stresses, Misfits	3.6-8, 13 & 3.7-6
09/24	M	13	4.1-3	Torsion	4.3-2, 11, 12
09/26	W	14	4.4-5	Testing, Torsion of Systems	4.4-6 & 4.5-3, 11
09/28	F	15	4.6-7	Indeterminates in Torsion	4.6-2, 7, 14
10/01	M	16	5.1-2	Equilibrium of Beams	5.2-3, 9, 16
10/03	W	17	5.3-5	Shear and Moment Diagrams	5.5-1, 11, 14
10/05	F	18	App. C.1-2	Moments of Inertia	Handout on website
10/08	M	19	6.1-3	Strain-Displacement Analysis of Beams	6.2-1, & 6.3-1, 3
10/10	W	20	6.3-4	Flexural Stresses in Beams, Beam Design	6.3-10, 17 & 6.4-2
10/12	F	21	6.8-9	Transverse Shear Stresses in Beams	6.8-4, 11, 12
10/15	M	22	6.8-9	Transverse Shear Stresses in Beams	6.8-3, 9
10/17	W			Questions/Answers & Night Exam	
10/19	F	23	7.1-3	Beam Deflection	7.3-2, 4, 5
10/22	M	24	7.1-3	Beam Deflection-Matching Boundary Conditions	7.3-12, 13
10/24	W	25	7.4	Indeterminate Beams	7.4-2, 5
10/26	F			CLASSES DISMISSED	
10/29	M	26	8.1-3	Stress Transformation	8.3-1, 5
10/31	W	27	8.4-5	Maximum Stresses/2D Mohr's Circle	8.4-5 & 8.5-20
11/02	F	28	8.5	2D Mohr's Circle	8.5-5, 13, 25
11/05	M	29	8.6	3D Mohr's Circle, Absolute Maximum Shear Stress	8.6-1, 7, 9
11/07	W	30	8.7-8	Plane Strain Transformation	8.8-7, 9, 11
11/09	F	31	8.9-11	Strain Gages, Mohr's Circle for Strain	8.9-6 & 8.10-5
11/12	M	32	9.1-2	Thin Walled Pressure Vessels	9.2-3, 6
11/14	W	33	9.4	Combined Loading	Handout on website
11/16	F	34	9.4	Combined Loading	9.4-6, 9
11/19	M	35	10.1-2	Buckling of Pin-Ended Columns	10.2-1, 10
11/21	W		HOLIDAY		
11/23	F		HOLIDAY		
11/26	M	36	10.3	Column End Conditions	10.3-8, 9, 11
11/28	W			Questions/Answers & Night Exam	
11/30	F	37	12.1-2	Stress Concentrations	12.2-1, 5, 17
12/03	M	38	12.3	Failure Criteria for Ductile Materials	12.3-3, 13
12/05	W	39	12.3	Failure Criteria for Brittle Materials	12.3-9, 14
12/07	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