

Asgt	Day	Date	Articles	AEM 250 Summer 2018 Topics	Problems Assigned
1	Th	07/05	Ch. 1.,2.1-2, App. A-B	Introduction, Normal Stress	2.2-1, 7, 13
1	Th	07/05	2.3-4	Extensional Strain, Stress-Strain Diagrams	2.3-1, 7, 9
2	F	07/06	2.5-6	Temp. Effects, Hooke's Law & Poisson's Ratio	2.3-17, & 2.4-5 & 2.6-5
2	F	07/06	2.7	Shear Stress and Strain; Equilibrium for Shear Stress States	2.7-1, 3, 5
3	M	07/09	2.8-9	Design, Stresses on an Inclined Plane	2.8-5, 7, 15
3	M	07/09	2.10-11	St. Venant's Principle, E-G-nu Relation	2.9-1, 4, 7
4	T	07/10	2.12	General Stress and Strain	2.12-1, 6, 7
4	T	07/10	2.13	3-D Hooke's Law	2.13-2, 5, 8
5	W	07/11	3.1-3	General Axial Deformation Members	3.3-7, 10
5	W	07/11	3.4	Uniform Axial Deformation Members	3.4-1, 3, 10
6	Th	07/12		EXAM 1 (through Chapter 2)	
6	Th	07/12	3.4-5	Indeterminate Axial Deformation Members	3.5-2, 5, 12
7	F	07/13	3.6-7	Thermal Stresses, Misfits	3.6-8, 14 & 3.7-3
7	F	07/13	4.1-3	Torsion	4.3-2, 8, 11
8	M	07/16	4.4-5	Testing, Torsion of Systems	4.4-7, & 4.5-3, 7
8	M	07/16	4.6-7	Indeterminates in Torsion	4.6-1, 7, 14
9	T	07/17	5.1-2	Equilibrium of Beams	5.2-9, 12, 16
9	T	07/17	5.3-5	Shear and Moment Diagrams	5.5-11, 12, 14
10	W	07/18	App. C.1-2	Moments of Inertia	Handout on website
10	W	07/18	6.1-2	Strain-Displacement Analysis of Beams	6.2-1, & 6.3-1, 3
11	Th	07/19	6.3-4	Flexural Stresses in Beams, Beam Design	6.3-11, 25 & 6.4-1
11	Th	07/19	6.8-9	Transverse Shear Stresses in Beams	6.8-4, 7, 12
12	F	07/20	7.1-3	Beam Deflection	7.3-4, 5, 8
12	F	07/20	7.1-3	Beam Deflection-Matching Boundary Conditions	7.3-12, 13
13	M	07/23		EXAM 2 (through Chapter 6)	
13	M	07/23	7.4	Indeterminate Beams	7.4-1, 5
14	T	07/24	8.1-3	Stress Transformation	8.3-1, 5
14	T	07/24	8.4-5	Maximum Stresses/2D Mohr's Circle	8.4-5 & 8.5-16
15	W	07/25	8.5	2D Mohr's Circle	8.5-5, 13, 25
15	W	07/25	8.6	3D Mohr's Circle, Absolute Maximum Shear Stress	8.6-1, 7, 9
16	Th	07/26	8.7-8	Plane Strain Transformation	8.8-7, 9, 11
16	Th	07/26	8.9-11	Strain Gages, Mohr's Circle for Strain	8.9-6 & 8.10-3
17	F	07/27	9.1-2	Thin Walled Pressure Vessels	9.2-2, 7
17	F	07/27	9.4	Combined Loading	Handout on website
18	M	07/30	9.4	Combined Loading	9.4-5, 9
18	M	07/30	10.1-2	Buckling of Pin-Ended Columns	10.2-1, 15
19	T	07/31		EXAM 3 (through Chapter 9)	
19	T	07/31	10.3	Column End Conditions	10.3-8, 9, 11
20	W	08/01	12.1-2	Stress Concentrations	12.2-1, 5, 17
20	W	08/01	12.3	Questions and Answers	

Note: Final exam for classes that meet 7:00-9:45 AM is scheduled for 8/2/18, from 8:00-10:30 AM