

ENES 220 Mechanics of Materials

(reference only, schedule is subjected to change)

WK	Topics	Sections in Book	Homework
1	Introduction, Statics Review		
	Normal and Shear Stresses	1:3-4	
2	Stress Application, Strain	1:5-7, 2	
	Strain, Stress-Strain Curve	2, 3:1-4	
3	1D Hook's Law and Poisson's Ratio	3:3-6	
	Axially Loaded Member	3:6-7, 4:1-2	
4	Statically Indetermin. Member, Thermal Stress	4:3-6	HW #1 due
	Review 1-4		
5	TEST 1		
	Torsional Formula	5:1-3	
6	Power Transmission	5:3-4	
	Thin-Walled Tube	5:4-5	
7	Shear-Bending Diagrams	6:1-2	HW #2 due
	Flexure Formula	6:3-4	
8	Bending Application and Transverse	6, 7:1	
	Shear Flow Concepts	7:2-3	
9	Review 5-7		
	TEST 2		HW #3 due
10	Plane-Stress Transformation	9:1-2	
	Principal Stresses, Mohr's Circle	9:3-4	
11	Mohr's Circle - Stress and Strains	9:5, 10	
	Combined Stress Applications, Intro to Project	8, 11	
12	Review 8-11		
	TEST 3		HW #4 due
13	Deflection of Beams 1	12:1-2	
	Deflection of Beams 2	12:5-6	
14	Buckling of Columns	13:1-3	
	Review		Project due
15	Final Exam 12:30		HW #5 due