

Chapter 9 Mechanics of Materials

TIME SCHEDULE

The following schedule is suggested for a three-hour review class.

Minutes	Topic
5	AXIALLY LOADED MEMBERS, p. 262
10	Modulus of Elasticity
5	Poisson's Ratio
5	Thermal Deformations
5	Variable Load
5	THIN-WALLED CYLINDER, p. 268
5	GENERAL STATE OF STRESS, p. 270
	PLANE STRESS, p. 271
15	Mohr's Circle—Stress
5	STRAIN, p. 274
5	Plane Strain
5	HOOKE'S LAW, p. 276
	TORSION, p. 277
10	Circular Shafts
5	Hollow, Thin-Walled Shafts
15	***Break***
	BEAMS, p. 280
10	Shear and Moment Diagrams
5	Stresses in Beams
10	Shear Stress
10	Deflection of Beams
10	Fourth-Order Beam Equation
10	Superposition
15	COMBINED STRESS, p. 295
10	COLUMNS, p. 297