

MECE 3321 Tentative Course Schedule

	Topics	Chapters/Sections
1	Introduction, Syllabus, Statics Review	1.1-1.2
2	Internal Loads, Stress	1.2-1.3
3	Average Shear Stress, Allowable Stress	1.4-1.6
4	Strain, Strain Examples	2.1-2.2
5	σ - ϵ Diagrams, Hooke's Law	3.1-3.4
6	Poisson's Ratio, τ - γ Diagram	3.6-3.7
7	Poisson's Ratio, τ - γ Diagram, Examples	3.6-3.7
	Exam 1	1, 2, 3
8	Axial Load: Stress, Strain, and Elastic Deformation	4.1-4.2
9	Axially-Loaded Statically Indeterminate Problems	4.3-4.4
10	Axially-Loaded Statically Indeterminate Problems	4.4-4.5
11	Thermal Stress, Stress Concentrations	4.6-4.7
12	Torsional Loads: Stress, Power Transmission	5.1-5.3
13	Angle of Twist	5.4
14	Deflections & Statically Indeterminate Members	5.4-5.5
15	Noncircular Shafts, Stress Concentrations	5.6 & 5.8
	Exam 2	4, 5
16	Bending: Shear & Moment Diagrams	6.1-6.2
17	Bending: Shear & Moment Diagrams	6.1-6.2
18	Bending: Shear & Moment Diagrams	6.1-6.2
19	Bending: Stress, Strain, Elastic Deformation	6.3-6.4
20	Transverse Shear, Transverse Shear Examples	7.1-7.2
21	Transverse Shear, Transverse Shear Examples	7.1-7.2
	Exam 3	6, 7
22	Combined Loading	8.1
23	Combined Loading	8.2
24	Combined Loading	8.2
25	Combined Loading	8.2
26	Beam Deflections: Via Integration	12.1-12.2
27	Beam Deflections: Via Superposition	12.5
28	Statically Indeterminate Beams: Via Superposition	12.6 & 12.9
29	Final Exam Review	
	Final Exam	8, 12