

ENG ME 305 Mechanics of Materials**Fall 2023**

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Text: Barry J. Goodno and James M. Gere, *Mechanics of Materials*,
9th ed., Cengage, 2018, ISBN 978-1-337-09334-7.

<u>Week Beginning</u>	<u>Topics</u>	<u>Reading</u>
9/4	Statics of deformable bodies	1.1–1.3
9/11	Tension, compression, and shear	1.4–1.10
9/18	Axially loaded structural elements	2.1–2.6
9/25	Torsion	3.1–3.5
10/2	"	3.6–3.8, 3.11
10/9	Stresses in beams	4.1–4.5, 5.1–5.6
10/16	"	5.7–5.10
10/23	Deflections of beams	9.1–9.4
10/30	"	9.5–9.7
11/6	Statically indeterminate beams	10.1–10.4
11/13	Buckling	11.1–11.5
11/20	Two-dimensional stress and strain	7.1–7.4
11/27	"	7.5–7.7
12/4	Combined loading	8.1–8.3
12/11	"	8.4–8.5

Grading Three tests, each worth 25% of final grade.
 Three laboratory exercises, together worth 15% of final grade.
 All three labs must be completed in order to pass the course.
 Weekly homework assignments, together worth 10% of final grade.

Lab Schedule Lab 1: 10/2/23 – 10/6/23.
 Lab 2: 10/23/23 – 10/27/23.
 Lab 3: 11/27/23 – 12/1/23.