

ENG ME 305 Mechanics of Materials**Fall 2018**

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Text: Barry J. Goodno and James M. Gere,
Mechanics of Materials, 9th ed., Cengage, 2018.

<u>Week Beginning</u>	<u>Topics</u>	<u>Reading</u>
9/3	Statics of deformable bodies	1.1–1.3
9/10	Tension, compression, and shear	1.4–1.10
9/17	Axially loaded structural elements	2.1–2.3
9/24	"	2.4–2.6
10/1	Torsion	3.1–3.5
10/8	"	3.6–3.8, 3.11
10/15	Shear forces and bending moments	4.1–4.5
10/22	Stresses in beams	5.1–5.6
10/29	"	5.7–5.10
11/5	Deflections of beams	9.1–9.4
11/12	"	9.5–9.7
11/19	Buckling	11.1–11.2
11/27	"	11.2–11.5
11/27	Two-dimensional stress and strain	7.1–7.4
12/3	"	7.5–7.6
12/10	Combined loading	8.1–8.5

Grading: Two tests, each worth 20% of final grade.
Final exam, worth 30% of final grade.
Homework assignments, together worth 10% of final grade.
Laboratory exercises, together worth 10% of final grade.
Design project, worth 10% of final grade