

ENG ME304 Energy and Thermodynamics**Spring 2021**

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Text: M. J. Moran, H. N. Shapiro, D. D. Boettner, and M. B. Bailey,
Fundamentals of Engineering Thermodynamics, Wiley & Sons,
9th ed., 2018.

<u>Week Beginning</u>	<u>Topics</u>	<u>Reading</u>
1/25	Systems, properties, processes	1.1–1.9
2/1	Work, heat, first law	2.1–2.7
2/8	Properties of pure substances	3.1–3.15
2/15	"	"
2/22	Control volume analysis	4.1–4.12
3/1	"	"
3/8	Second law	5.1–5.11
3/15	Entropy	6.1–6.13
3/22	"	"
3/29	Vapor power systems	8.1–8.4
4/5	Gas power systems	9.1–9.8
4/12	Refrigeration systems	10.1–10.3
4/19	Multicomponent systems	12.1–12.5
4/26	"	"

Grading: Three tests, each worth 25% of final grade.
Homework assignments, together worth 10% of final grade.
Laboratory exercise, worth 15% of final grade.