

AME 414

Engineering Thermodynamics II

Spring 2021, OHE 100C & Online, M, W 12:30 pm - 1:50 pm

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Text: *Fundamentals of Thermodynamics*, by
Borgnakke & Sonntag (8th edition)

WEEKS

1
2, 3
4, 5, 6
6, 7
8, 9
10, 11
12, 13
14, 15

TOPICS

Review of AME 310 (Chapters 1-6)
Second Law of Thermodynamics and Exergy (Chapters 7 & 8)
Power and Refrigeration systems (Chapters 9 & 10)
Gas Mixtures (Chapter 11)
Thermodynamic Relations (Chapter 12)
Chemical Reactions (Chapter 13)
Introduction to Phase and Chemical Equilibrium (Chapter 14)
Introduction to Equilibrium Electrochemistry (Notes)

Grading:	Midterm Exam #1	February 22 (M)	(12:45 pm - 1:45 pm)	25%
	Midterm Exam #2	March 29 (M)	(12:45 pm - 1:45 pm)	25%
	Final Exam	May 7 (F)	(11:00 am - 1:00 pm)	30%
	Homework Assignments			20%

Remarks:

1. Homework assignments will be given every Monday and will be due the following Monday; late work will not be accepted.