

AME 312

Engineering Thermodynamics II

Spring 2019, RTH 109, M 11:00 am - 1:50 pm

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

WEEKS

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2, 3
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5, 6, 7
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TOPICS

Review of AME 310 (Chapters 1-6)
Second law and its applications to simple systems (Chapter 7)
Exergy, Reversible Work, and Irreversibility (Chapter 8)
Power and Refrigeration systems (Chapters 9 & 10)
Gas mixtures (Chapter 11)
Thermodynamic relations (Chapter 12)
Spring break
Thermodynamic relations (Chapter 12)
Chemical reactions (Chapter 13)
Introduction to Phase and Chemical Equilibrium (Chapter 14)

Grading:

Midterm Exam #1	February 25 (M)	(11:00 am - 12:00 pm)	20%
Midterm Exam #2	April 1 (M)	(11:00 am - 12:00 pm)	20%
Final Exam	May 1 (W)	(11:00 am - 1:00 pm)	40%
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.
2. **The use of laptops or cell phones to access the internet/e-mail during class and/or exams is not allowed. Such devices are allowed only to access material pertaining to the class.**