AME 414
Engineering Thermodynamics II
Spring 2020, RTH 109, M, W 12:30 pm - 1:50 pm

Instructor: Fokion N. Egolfopoulos, Professor AME Dept.
Office: OHE 400B
Tel: 740-0480
E-mail: egolfopo@usc.edu
Office Hours: Anytime by appointment

Teaching Assistant: TBD
E-mail: TBD
Office Hours: TBD

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

WEEKS TOPICS
1 Review of AME 310 (Chapters 1-6)
2, 3 Second Law of Thermodynamics and Exergy (Chapters 7 & 8)
4, 5, 6 Power and Refrigeration systems (Chapters 9 & 10)
6, 7 Gas Mixtures (Chapter 11)
8 Thermodynamic Relations (Chapter 12)
9 Chemical Reactions (Chapter 13)
10 Spring Break
11 Chemical Reactions (Chapter 13)
12, 13 Introduction to Phase and Chemical Equilibrium (Chapter 14)
14, 15 Introduction to Equilibrium Electrochemistry (Notes)

Grading:
Midterm Exam #1 February 24 (M) (12:45 pm - 1:45 pm) 20%
Midterm Exam #2 March 30 (M) (12:45 pm - 1:45 pm) 20%
Final Exam May 8 (F) (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.