ENG ME304 Energy and Thermodynamics

Prof. Raymond J. Nagem 110 Cummington St., Room 420 617 353-5925 nagem@bu.edu

Text: M. J. Moran, H. N. Shapiro, D. D. Boettner, and M. B. Bailey, Fundamentals of Engineering Thermodynamics, Wiley & Sons, 7th ed., 2011.

Week Beginning	Topics	Reading
9/2	Systems, properties, processes	1.1 - 1.9
9/9	Work, heat, first law	2.1 – 2.7
9/16	п	н
9/23	Properties of pure substances	3.1 - 3.11
9/30	п	"
10/7	Control volume analysis	4.1 - 4.12
10/14	п	"
10/21	Second law	5.1 - 5.10
10/28	Entropy	6.1 - 6.13
11/4	Ш	"
11/11	Vapor power systems	8.1 - 8.3
11/18	Gas power systems	9.1 - 9.8
11/25	Refrigeration systems	10.1 - 10.3
12/2	Gas mixtures	12.1 - 12.7
12/9	Ш	"

Grading: Three tests, each worth 20% of final grade. Homework assignments, together worth 20% of final grade. Two laboratory exercises, together worth 20% of final grade.