

*Eastern Nazarene College*

*PY 412 Statistical Thermodynamics*

*Fall 2007*

*Course Schedule*

Sept. 6	Topic Read	Review and Introduction to Statistical Mechanics Introduction
Sept. 11, 13	Topic Read Homework	States of a Spin System and the Microcanonical Ensemble Chapter 1 Assignment #1
Sept. 18, 20	Topic Read Homework	Entropy and Temperature Kittel, Chap. 2 Assignment #2
Sept. 25, 27, Oct. 2	Topic Read Homework	Partition Function and Free Energy Kittel Chap. 3 Assignment #3
Oct. 9	Exam #1	Over Chapt. 1, 2, and 3
Oct. 4, 11, 16	Topic Read Homework	Thermal Radiation Kittel Chap. 4
Oct. 16, 18	Topic Read Homework	Chemical Potential Kittel Chap. 5
Oct. 23, 25, 30 Nov. 1	Topic Read Homework	Ideal Gas Kittel Chap. 6
Nov. 6, 8, 13, 15	Topic Read Homework	Fermi and Bose Statistics Kittel Chap. 7
Nov 27	Exam #2	Over Chapt. 4, 5, 6, and 7
Nov. 20	Topic Read Homework	Classical Thermodynamics Kittel Chap. 8 and Sears, Thermodynamics Kittel

Nov. 29  
Dec. 4

Topic      Chemical Reactions  
Read        Kittel Chap. 9  
Homework   Kittel

or

Topic      Phase Transformations  
Read        Kittel Chap. 10  
Homework   Kittel

Topic      Kinetic Theory  
Read        Kittel Chap. 14  
Homework   Kittel

During Finals Week   Exam #3      Over Chaps. 8, 9, 10, and 14

Topic      Binary Mixtures      Chap. 11  
             Magnetism  
             Cryogenics            Chap. 12  
             Semiconductors      Chap. 13

\*\*\* It's all over folks \*\*\*