

Course: PHYS 5365 ADVANCED STATISTICAL MECHANICS – GRADUATE LEVEL

Fall 2018

Textbook: Statistical Mechanics, D. McQuarrie

Chapter 1: Introduction and review

Chapter 2: The Canonical Ensemble

Chapter 3: The Other Ensembles and Fluctuations

Chapter 4: Boltzmann, Fermi-Dirac, and Bose-Einstein Statistics

Chapter 5: Ideal Monoatomic Gas

Chapter 6: Ideal Diatomic Gas

Chapter 7: Classical Statistical Mechanics

Chapter 10: Quantum Statistics