

DATE	Readings
Date	Reading/Lecture
January 16th - 19th	Microscopic and macroscopic systems, thermodynamic systems (Ch 1, 2.1 – 2.5).
January 22nd - 26th	First law of thermodynamics, energy in thermal system, heat capacities, thermodynamic derivatives (Ch 2.6 – 2.9, 2.22).
January 29th - February 2nd	Enthalpy, adiabatic processes, second law of thermodynamics (Ch 2.10 – 2.13).
February 5th - 9th	Fundamental thermodynamic relation, heat engines(Ch 2.14 – 2.18).
February 12th - 16th	Heat engines, free energies (Ch 2.14 –2.21).
February 19th - 23rd	Free energies, thermodynamic processes (Ch 2.21, 2.23).
February 26th - March 2nd	Exam 1, Probabilities (Ch 3.1 – 3.6).
March 5th - 9th	Microstates and macrostates (Ch 4.1 – 4.3).
March 12th - 16th	Spring Break
March 19th - 23rd	Systems with continuous degrees of freedom (Ch 4.3 – 4.4).
March 26th - 30th	Thermodynamic ensembles (Ch 4.5 – 4.8).
April 2nd - 6th	Thermodynamic ensembles (Ch 4.5 – 4.8).
April 9th - 13th	Grand canonical ensemble, spin systems (Ch 4.12, 5.1 – 5.3), Exam 2.
April 16th - 20th	Ideal gases (Ch 6.1 – 6.2).
April 23rd - 27th	Bose-Einstein and Fermi-Dirac statistics (Ch 6.3– 6.5).
April 30th - May 4th	Applications of statistical physics (Ch 6.6 – 6.8).
May 7th - 11th	Final