Class Schedule and Assignments

Unit 3: Thermodynamics (with a little Oscillations)

• October 31, Friday Topic: Temperature, Ideal Gases, and Kinetic Theory

Read: 15-1, "Measuring Pressure" on pp. 245-246, 16-1, 17-1

Assigned Problems: A46, A47; CH 15: 42; CH 16: 19; CH 17: 6,

21, 25, 39, 73

Note: Unless otherwise noted, treat all gases as ideal.

• November 3, Monday Topic: Heat and the First Law of Thermodynamics

Read: "Heat and Temperature" on p. 264, 16-2, 17-2 (stop at "Phase

Diagrams" on p. 285), 18-1

Assigned Problems: A49, A50; CH 16: 21, 25, 47; CH 17: 27, 49,

53, 59; **CH 18:** 17

• November 5, Wednesday Topic: PV Diagrams and Gas Processes

Read: 18-2, 18-3

Assigned Problems: A51, A52; CH 18: 12, 25, 29, 31, 37, 43, 55

• November 6, Thursday **Topic: Computer Simulations**

• November 7, Friday Topic: Problem Session

• November 10, Monday Topic: Heat Engines and the Second Law

Read: Chapter 19

Assigned Problems: A55; CH 19: 3, 15, 17, 19, 21, 31, 44, 47

• November 12, Wednesday Topic: Microscopic Entropy

Read: Supplementary Reading Chapter 7

Assigned Problems: A58; **Supp CH 7:** 1, 3, 4, 5, 6, 7, 8

• November 13, Thursday **Topic: Computer Simulations**

• November 14, Friday Topic: Problem Session

• November 17, Monday **Topic: Oscillations**

Read: Chapter 13

Assigned Problems: A59, A60; CH 13: 6, 19, 21, 25, 35, 41, 47, 67

- November 19, Wednesday Topic: Problem Session
- November 20, Thursday **Topic: Review**
- November 21, Friday **Topic: Group Exercise**
- November 24, Monday **Test 3**

Hand-In Problems

- 1. Due Monday, November 3, 4:30 pm A48; **CH 16:** 18; **CH 17:** 18, 24, 40
- 2. Due Monday, November 10, 4:30 pm A53, A54; **CH 16:** 26, 54; **CH 17:** 44, 54; **CH 18:** 16, 32, 38, 46
- 3. Due Monday, November 17, 4:30 pm A56, A57; **CH 19:** 14, 20, 42, 48; **Supp CH 7:** 2, 9, 10
- 4. Due **Thursday**, November 20, 4:30 pm A61; **CH 13:** 22, 32, 46, 68