Chapter 24 Study Guide

Prior to lecture:

- 1. Read Ch. 24 in textbook
- 2. Work through example problem 24.1 and 24.3.
- 3. Read the "Maxwell's Equations" on pages 867. Rewrite them in your own words.
- 4. On a sheet of paper, complete the "Take-Home Experiments" on pages 870 and 877.
- 5. Answer conceptual questions 1, 2, 6 and 8 on page 885 of the text.
- 6. Define the following terms:
 - a. Electromagnetic waves
 - b. Maxwell's equations
 - c. Relation between electric
 - d. Magnetic field strength
 - e. Electromagnetic spectrum
 - f. Radio waves
 - g. Infrared radiation
 - h. UV radiation
 - i. Intensity of electromagnetic waves
 - j. Amplitude modulation
 - k. Frequency modulation

After the lecture

- 1. Review notes from lecture.
- 2. Redo all example problems from lecture.
- 3. Reread text
- 4. Work through examples 24.2 and 24.4in the text.
- 5. Redo all recitation worksheet problems
- 6. Answer conceptual questions 4, 5, 7, 9, 13 and 16 of the text.
- 7. Complete homework for chapter 24
- 8. For extra practice, try the following problems from chapter 24 of the textbook: 1, 3, 4, 5, 6, 8, 9, 13, 15, 22, 27, 28, 29, 31, 32, 33, 35 and 41.