

Heat, Light, Sound - Phys 115- Spring 09 -Three Rivers Community College

Professor Scanlon

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Text : Wilson, Buffa, Lou – College Physics – Sixth Edition – Prentice Hall

Content

Heat – Chapters 10,11

Elasticity – Chapter 9.1

Vibrations and Waves – Chapter 13

Sound – Chapter 14

Electromagnetic Waves – Chapter 20.4, 22, 23, 24, 25

Grading – Tests and quizzes 55%, lab 25%, final exam 20%

Tests every month, quizzes and homework every class.

Expectations – Homework completed to the best of your ability. Work is legible, supported (show work – not just answers) and on time. Pay attention, take accurate notes and ask questions.

Lab – Lab is held every week. You must pass the lab portion of the course in order to receive credit. Fail lab then you fail the course.

Lab reports – at a minimum need to show the following:

1. Show all data.
2. Do a sample calculation.
3. Answer questions. Use full sentences.
4. Conclusion. Does theory match experiment? Examine and explain error. Describe any problems. Suggest any improvements (What would you do differently if you had to repeat the experiment?) The conclusion is the most important part of the lab report. Show that you learned something. There should be a good discussion on the experiment – but don't rehash what you did in the lab. What can you conclude from the results? Really think about the lab.