

# PHYS 111

## NOTES FOR THE SECOND HOUR EXAM

### FALL 2016

The second hour exam will be given on Nov. 22 from 4-5:30 pm in the usual classroom. The exam will be closed note, closed book; all electronic devices must be stored out of sight before the exam starts. The exam will include a list of equations and results; therefore, there is no need for you to memorize any equations.

The exam will cover all the material in Chs 4-7 and the material in Ch 8 covered by the end of class on Tuesday Nov. 15.

Because we have now learned a bit more physics, I will strive to include questions that will require you to synthesize information from several chapters; a question might, for instance, require application of Newton's laws and conservation techniques.

You should also be able to:

- Derive equations that we have studied in class and you have read in the book.
- Solve problems using symbols.
- Derive equations which will solve a numerical problem and substitute numbers; you will not be asked to find any numerical solutions unless the numbers are simple integers which will not require a calculator.

All answers must be accompanied by clear and complete work. As always, no work = no credit.

In studying for this exam, make use of *all* your resources including homework solutions, classnotes, the text (including problems in the text) and past exam solutions. Do *not* rely exclusively on one source (such as, say, the past hour exams). In the text, do as many of the odd problems as you can (their answers are in the back). To make sure you understand the conceptual framework of the course, try to answer the conceptual questions in the back of the chapter (odd problems are also answered in the back). Keep in mind that the posted hour exam covered material from chapter 9 (the exam covered an additional week of work).