

# NOTES FOR THE FINAL EXAM

## FALL 2014

The final exam will be given in the classroom (Cudahy 202) on Tuesday, 9 December, from 9 : 00 - 11 : 00. Because other students in the class will have exams later that day, you will have exactly two hours to complete the test after we go over the questions.

The exam will be closed note, closed book. You will not need and may not use calculators or any other computing devices; all electronics must be stored out of sight before the exam begins. Any variation from this policy will result in a grade of 0 for the exam.

You will be responsible for all material covered in the course, either discussed in lecture and/or assigned for reading. These are chapters 1 - 10 in the text (including whatever material is covered this week in class).

As with prior exams, the emphasis will be on deriving relationships between variables, providing explanations for conceptual questions, and constructing and analyzing graphs. Any problems requiring calculations will either use numbers so simple that no calculators are required, or will ask you to set up the relevant equations, and substitute the appropriate values into the equation without having to numerically compute results.

I anticipate there will be approximately 10 questions (say  $10 \pm 2$ ) on the exam. Since Chapter 9 and 10 material has not been well covered on any exam, this material will be overrepresented with respect to the time we spent on it in class. Therefore, I anticipate that Chapters 9 and 10 will represent approximately 25 - 30 % of the final exam. The rest of the exam will cover kinematics, Newton's laws, circular motion, and energy and momentum. As on previous exams, I will include questions that synthesize different concepts (such as the ballistic pendulum).

I will hold the following office hours :

- Friday : 9 am - 12 pm; 1 pm - 2 : 30 pm
- Monday : 11 am - 1 pm; 2 pm - 4 pm

If you elect to submit HW 11 in class on Thursday, you can pick up your homework during office hours on F or M.