

NOTES FOR THE FINAL EXAM FALL 2016

The final exam will take place in the normal classroom on Tuesday, 13 December, from 4-6 pm. The exam will be closed book, closed note. All electronic devices must be stored out of sight once the exam begins. You will be provided with a list of equations.

The exam will cover all material discussed in class and/or assigned for reading. The material from chapters 9 and 10 (as well as the discussion of elastic collisions) has not been covered on any hour exam. Therefore, this material will be overrepresented on the final exam. Since this material represents essentially 1/6 of the lecture time in the course, expect that it will represent between 25-30% of the final exam (roughly double its proportional time). The rest of the material will be drawn from chapters 1-8. Since your library of physics knowledge is expanding, you should expect questions that will require synthesis of different concepts in physics. You should be prepared to solve problems using different formalisms; I might give you a problem (e.g., example 10.4 from the text) and ask you to use dynamic methods (forces, torques, Newton's Laws) to determine its acceleration, and also ask you to use energy methods (conservation of energy) to find the same result. Similarly, I might ask you to use methods of kinematics (equations of motion) and energy methods to solve the same problem in different ways.

I will hold extended office hours on Monday and Tuesday of next week. I will be available on Monday from 10-12 and from 1-4. On Tuesday I will be available from 10-12 and from 1-3.