

Physics I - Physical Sciences

PHY A10 - Fall 2018

Required Materials

- Textbook:

Grade Components

Reading Quizzes (5%)

Before each Tuesday lecture and on MasteringPhysics you will be asked a set of questions from the assigned textbook readings for that week. You will have until 11:55 am on Tuesday to submit your answers. Each quiz is worth 5 points, and your final grade is the total sum of all quizzes up to a maximum of 50 points. Use the Class Schedule to prepare for the lectures and reading quizzes.

Participation (5%)

During each lecture we will work on clicker questions from the textbook readings and the lecture presentation. During each lecture 1 point can be earned by answering at least 75% of the questions asked. The total sum of all lecture points makes up your participation grade up to a maximum of 20 points. In addition, after each lecture one participation question will be selected for a performance bonus. An extra 1% will be awarded to those students that correctly answer 50% or more of the performance questions.

Online Homework (5%)

These will be a weekly set of questions posted on MasteringPhysics. The questions will be based on the previous week's textbook reading material and lecture discussions. Each homework is worth 10 points, and your final grade is the average of the best 10 results. A mix of conceptual questions and applied problem-solving exercises will be included. Do not spend more than two hours on each homework.

Practical Sessions (20%)

In these three-hour weekly sessions you will work in groups to discuss examples on the concepts introduced in your textbook readings and lecture presentations. Groups will apply these concepts and principles, in order to develop skills useful in scientific conceptual analysis and general problem-solving. Further work will focus on the development of experimental techniques related to Physics and the Scientific Method. The grade will depend on group quizzes (2%), notebook-recorded group activities (8%), and two experiment-based formal lab reports (1% and 9%) written in collaboration with your assigned group.

Attendance to the practicals is mandatory and a deduction to your final practical grade would be applied should you miss a session. This deduction will be a percentage equal to the cube (third power), of the number of absences. More information will be provided during your first practical session (second week of classes) and on the course website.

Test #1 (10%)

The first test will be scheduled during Week 5 and it will be 1 hour

Final Examination (35%)

The final examination will be scheduled during the exam period of December 07 - 22. Material for the final examination will include all the topics discussed in the assigned textbook readings, lecture

Academic Integrity and Respect for the Academic Endeavor

Academic integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring

Lecturecasts and Lecture Notes

Videos of the lecture discussions will be available after each session and will remain accessible for one week. These videos are not meant to replace your participation in the lecture discussions. They are provided to help you review difficult material in preparation for other course components. The slides from the lectures will be made available on the course website