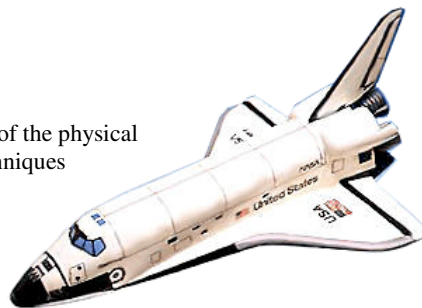


# General Physics I

(Phys 113-02)

## Fall 2011



**What am I doing here?** “Physics” is a description (not an explanation) of the behavior of the physical world around us. In this course you will learn some of the definitions, concepts, and techniques of physics. You will practice what you have learned by *solving physics problems* on homework assignments, quizzes, and exams. Seriously, the only way to learn physics is to do physics. At the end of this course, you should be able to apply the basic principles of classical mechanics (e.g., force, energy, and momentum) to solve a variety of problems (not just limited to the types we do in class).

**What if I’m confused?** Your textbook, *Physics* (8<sup>th</sup> edition) by Cutnell & Johnson, provides many examples and hints for solving problems. The Physics Learning Center (ISC 233) may also be available for help when you are stuck. In addition, I will be happy to answer your questions (but not to do your homework for you) during the office hours listed above, or at any other mutually convenient time.

**I want an ‘A’!** I want you to get an ‘A’, too! Your grade in this course will be based on your homework grades, quizzes, and exams (including a comprehensive final).

**Homework:** You will submit your weekly homework using the CAPA system on the internet. CAPA homework is generally due **before 8 am** on the day indicated (see back). You may discuss the assignments with other students, **but you are responsible for doing your own work**. Solutions to all the homework problems will be posted on the web after the homework is collected.

**Quizzes:** Quizzes will be given at the beginning of every class when homework is due. These quizzes are open notebook, and will require you to repeat a homework solution for a problem due on that day. Also, unannounced quizzes may be occasionally given, emphasizing material from the previous class. I will drop your lowest quiz score when computing your final grade.

**Exams:** Exams will be given during class using the CAPA system. You are required to bring a laptop to exams with a battery sufficiently charged to last the full 75 minutes. Exams may require you to answer conceptual questions and to solve problems which I will design. There are 4 exams, including the final. The exams are scheduled as follows:

Exam #1	Tuesday, September 27, 2011	Chapters 1, 2, 3, and 4a
Exam #2	Tuesday, October 25, 2011	Chapters 4, 5, and 6
Exam #3	Tuesday, November 22, 2011	Chapters 7, 8, and 9
Exam #4 (Final)	Thursday, December 15, 2011 at 8:00 am	All Chapters (+10, 11, 12, 13)

If, for some non-trivial reason, you are unable to take an exam at the scheduled time, I *may* allow you to take a make-up exam; however, you must contact me at least 1 week *prior* to the exam date. Rescheduling is *your* responsibility, not mine!

**Grades:** Final grades will be computed as follows:

CAPA Assignments	20% (total)
Quizzes	15% (total)
Exams #1, 2, and 3	15% (each; 45% total)
Final Exam	20%

**What is my responsibility?** You must attend and participate in class (and arrive on time), study the relevant sections of your textbook, and complete the homework assignments on time. This course moves along quickly and covers a lot of material; it is important that you keep up to date!

**When will it all happen?** Here is the schedule of events for this semester. Please note the due dates for homework and the dates for exams. The schedule is subject to revision as the course progresses, and any major changes will be announced in class.

Tuesday, August 30, 2011 Reading assignment: sections 1.1 - 1.5, Appendices A and B	Thursday, September 1, 2011 Reading assignment: sections 1.6 - 1.8; 2.1 - 2.3 Appendix E
Tuesday, September 6, 2011 Reading assignment: sections 2.4 - 2.7 Appendix C	Thursday, September 8, 2011 Reading assignment: sections 3.1 - 3.3 <b>Assignment #1 Due (8:00am)</b>
Tuesday, September 13, 2011 Reading assignment: sections 4.1 - 4.5	Thursday, September 15, 2011 Reading assignment: sections 4.6 - 4.10 <b>Assignment #2 Due (8:00am)</b>
Tuesday, September 20, 2011 Reading assignment: section 4.11	Thursday, September 22, 2011 Reading assignment: section 4.12 <b>Assignment #3 Due (8:00am)</b>
Tuesday, September 27, 2011 <b>Exam #1: Chapters 1 – 4a</b>	Thursday, September 29, 2011 Reading assignment: sections 5.1 - 5.2 <b>Assignment #4 Due (8:00am)</b>
Tuesday, October 4, 2011 Reading assignment: sections 5.3 - 5.4	Thursday, October 6, 2011 Reading assignment: sections 6.1 - 6.3 <b>Assignment #5 Due (8:00am)</b>
Tuesday, October 11, 2011 <b>No Class: Fall Break</b>	Thursday, October 13, 2011 Reading assignment: sections 6.4 - 6.7 <b>Assignment #6 Due (8:00am)</b>
Tuesday, October 18, 2011 Reading assignment: sections 7.1 – 7.2	Thursday, October 20, 2011 Reading assignment: sections 7.3 - 7.5 <b>Assignment #7 Due (8:00am)</b>
Tuesday, October 25, 2011 <b>Exam #2: Chapters 4b – 6</b>	Thursday, October 27, 2011 Reading assignment: sections 8.1 - 8.3 <b>Assignment #8 Due (8:00am)</b>
Tuesday, November 1, 2011 Reading assignment: sections 8.4 - 8.6	Thursday, November 3, 2011 Reading assignment: sections 9.1 - 9.2 <b>Assignment #9 Due (8:00am)</b>
Tuesday, November 8, 2011 Reading assignment: sections 9.3 - 9.4	Thursday, November 10, 2011 Reading assignment: sections 9.5 - 9.6 <b>Assignment #10 Due (8:00am)</b>
Tuesday, November 15, 2011 Reading assignment: sections 10.1 - 10.3	Thursday, November 17, 2011 Reading assignment: sections 10.4 - 10.6 <b>Assignment #11 Due (8:00am)</b>
Tuesday, November 22, 2011 <b>Exam #3: Chapters 7 – 9</b>	Thursday, November 24, 2011 <b>No Class: Thanksgiving</b>
Tuesday, November 29, 2011 Reading assignment: sections 11.1 - 11.6	Thursday, December 1, 2011 Reading assignment: sections 11.7 - 11.10 <b>Assignment #12 Due (8:00am)</b>
Tuesday, December 6, 2011 Reading assignment: sections 12.1 - 12.4, 12.6 - 12.8	Thursday, December 8, 2011 Reading assignment: sections 13.1 - 13.4 <b>Assignment #13 Due (8:00am)</b>
<b>Monday, December 12, 2011</b> <b>Assignment #14 Due (1:00pm)</b>	Thursday, December 15, 2011 <b>Final Exam: Chapters 1 – 13</b>