

General Physics I

Semester: Fall 2008
Professor: Victor Kriss
Office Hours: 11:00 - 11:45 T,Th, and 1:30 - 2:15 M, W (In the SUB)
and by appointment
Phone: 792- 2344 **e-Mail:** vkriss@lcsc.edu
Labs: Tuesday or Thursday, 3:00 - 6:00, (Room -- MLH B10)
Description of Course:

Physics 111 is the first semester of a two-semester general sequence in Physics (Physics 111-112), intended primarily for students who are required to complete such a sequence by their major. The only prerequisite is a grade of C or better in College Algebra (Math 143). Physics 111 differs from the other calculus physics course, Physics 211, in that Physics 111 covers more topics in somewhat less depth, and does not use the calculus. During the two semesters of the course we will cover most of the textbook material, although there will be some omissions. A natural break comes at the end of the first eighteen chapters, and we will end the semester at that point.

Grades:

Grading will be based on a 600 point scale normalized to 100 points. There will be 100 points for each of the three exams (with an additional 50 points for the Final portion of the last test). Another 100 points will be allotted for homework and 150 points for the lab part of the course. Homework should be turned in at the beginning of the next class following the assignment. Lab write-ups are due at the beginning of the next lab period and should be written in ink except where equations are being used. Graded labs will be returned so that comments on them can be used to improve the following reports. The policy for late labs and homeworks is that **no labs or homeworks will be accepted**. Two labs and three homeworks (that are required to be turned in) will be thrown out at the end of the semester. Any labs or homeworks not turned in will be counted as work to be dropped.

The normalized, final grades will be determined using the following grading scale:

94 -100	A	90 - 93	A-
87 -89	B+	84 - 86	B
80 - 83	B-	75 - 79	C+
70 - 74	C	60 - 69	D

The course will usually follow the order of topics in the text with some minor variations. There will be regular, graded homework assignments usually every day. The laboratory grade will also be based on participation in the laboratory and on the lab reports which will be due the week following each lab.

Tests are scheduled for **October 2** and **November 6**. The Final Exam is scheduled for Tuesday, **December 16**, at 1:30 to 3:30. It will be cumulative, with

emphasis on the last part of the course, and is required. The three tests will feature two types of questions:

- 1) Problems (similar but easier than homeworks)
- 2) Qualitative “conceptual questions”

If you need course adaptations or accommodations because of disability, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible.

Text: Physics, 7th Edition, by Cutnell & Johnson,

August	26	Introduction
	28	Introduction
September	2	Physics Math
	4	Physics Math
	9	Kinematics in 1 D
	11	Problems
	16	Kinematics in 2 D
	18	Problems
October	23	Forces and Newton’s Laws
	25	Dynamics
	30	Problems
	2	Test 1
	7	Circular Motion
	9	Problems
	14	Work and Energy
	16	Problems
	21	Impulse and Momentum
	23	Collisions
November	28	Rotational Motion
	30	Rotational Dynamics
November	4	Problems
	6	Test 2

11 Rotational Dynamics and Rolling Motion
13 Problems

18 Temperature and Heat
20 First Law

22 -30 Thanksgiving Break

December 2 Thermodynamics and the 1st Law
4 Thermodynamics and the 2nd Law
9 Problems
11 Problems

Final Exam 1:30 Tuesday, December 16 , MLH B10