

PHYSICS 122.4 -General Physics II - Spring 2016, sections 01, 02

An algebra-based physics course about electricity, magnetism, optics, quantum, and the uses of physics for students in life sciences, pre-health professions, and liberal arts.

You must also separately register for the Physics Lab, Physics 122.1, which is treated as a separate class.

This is a challenging course. It will require you to do considerable reading, attend lectures, and further develop your problem-solving skills. As you have probably learned by now, there is no royal road to success in physics - for most of us, it requires a lot of hard work. But the benefits of deepening your understanding of the physical world, the relationships among physics and the other natural sciences, the implications for the modern world and its own beauty and poetry make the effort well worthwhile.

Lecture/Recitation: Tuesday & Thursday, 2:15–4:05 PM in Science Building Room C201 (after 2/4/2016 in Remsen Room 209)

Dr. Larry Liebovitch: <http://people.qc.cuny.edu/Faculty/Larry.Liebovitch/>

Office Hours: Tuesdays/Thursdays 4:05-5:05 PM in SB B322

Textbook: Hugh D. Young. College Physics: Sears & Zemansky's, 10th Edition, Pearson, 2016

DISCOUNT FOR QUEENS COLLEGE STUDENTS at: <http://www.physics.qc.edu/current/>

Lecture Videos, PowerPoint, Words, Equations, Examples, Journal Questions at:

<https://drive.google.com/drive/u/1/folders/0BxKjzHTZ7PXHNXFSUm5TZE1Yb0U>

Attendance in Lecture and Recitation is required and attendance will be taken

Grading Policy:

Homework: 20%

Each week **Mastering Physics:** <http://www.masteringphysics.com> Course ID: **MPLIEBOVITCH13505**

Must be submitted on time, no credit for late homework

Exams: 60%

each 15%: 3 in-class, 1 final exam

Student video: 10%

Solutions to 2 homework problems

Personal journal: 10%

Responses to questions given each week in lecture

Week	Tuesday	Topic	Chapter	Thursday	Topic	Chapter
1	2/2/16	INTRODUCTION Electrical Charges	17	2/4/16	Recitation/Problems	
2	2/9/16	NO CLASS	FRIDAY SCHEDULE	2/11/16	Electric Potential	18
3	2/16/16	Recitation/Problems		2/18/16	Circuits	19
4	2/23/16	Recitation/Problems		2/25/16	Exam #1	
5	3/1/16	Magnets	20	3/3/16	Recitation/Problems	
6	3/8/16	E and M	21	3/10/16	Recitation/Problems	
7	3/15/16	E-M Waves	22-23	3/17/16	Recitation/Problems	
8	3/22/16	Optics	24	3/24/16	Exam #2	
9	3/29/16	Interference	25-26	3/31/16	Recitation/Problems	
10	4/5/16	Special Relativity	27	4/7/16	Recitation/Problems	
11	4/12/16	Quantum Mechanics	28	4/14/16	Recitation/Problems	
12	4/19/16	Atoms	29	4/21/16	Exam #3	
13	4/26/16	x	Spring Recess	4/28/16	x	Spring Recess
14	5/3/16	Nuclei	30	5/5/16	Recitation/Problems	
15	5/10/16	Applications		5/12/16	Review	
16	5/17/16	Review				
	FINAL EXAM May 24, 2016 at 1:45 PM - 3:45 PM.					