

PRINCE GEORGE'S COMMUNITY COLLEGE

INTRODUCTORY PHYSICS II

PHY 1020	Instructor:	Dr. D. Simpson
Section 17584	Office:	310-I Chesapeake Hall
Spring 2010	Office Hours:	Mon 5:30-6:00 pm Wed 5:30-6:00 pm
Lec. MW 6:00-7:15 pm CH-305	Telephone:	(301) 322-0990 ext. 4768
Rec. M 7:30-8:20 pm CH-301	Email:	dsimpson@pgcc.edu
Lab W 7:30-9:20 pm CH-305		

Course Web site: <http://www.pgccphy.net/1020/>
Textbook Web site: <http://physics.prenhall.com/giancolippa>

Textbooks:

Physics, 6th ed., D.G. Giancoli. Pearson Prentice Hall, 2005.

Physics 1020 Laboratory Manual, Version 9, J. McClure, 2009.

Recommended Reference:

The Feynman Lectures on Physics (3 vol.), R.P. Feynman, R.B. Leighton, and M.L. Sands. Addison-Wesley, 1963.

Course Description:

This course covers fundamental concepts of vibration and sound, electricity and magnetism, optics, and modern physics.

Prerequisite: Introductory Physics I (PHY 1010).

Tentative Schedule

Week	Dates	Topics	Chapters	Lab
1	M 1/25 W 1/27	Vibration and Waves	11	1
2	M 2/1 W 2/3	Vibration and Waves	11	2
3	M 2/8 W 2/10	- Snowmageddon - - Snowmageddon -		-
4	M 2/15 W 2/17	- No class - Sound	12	3
5	M 2/22 W 2/24	Sound Electric Charge & Fields	12 16	4
6	M 3/1 W 3/3	Electric Charge & Fields	16	5
7	M 3/8 W 3/10	Electric Potential	17	6
8	M 3/15 W 3/17	Electric Currents	18	7
9	M 3/22 W 3/24	DC Circuits	19	8
10	M 3/29 W 3/30	- Spring Break - - Spring Break -		-
11	M 4/5 W 4/7	Magnetism	20	9
12	M 4/12 W 4/14	Electromagnetic Induction & Faraday's Law		10
13	M 4/19 W 4/21	Electromagnetic Waves	22	11
14	M 4/26 W 4/28	Geometrical Optics	23	12

15	M 5/3 W 5/5	Optical Instruments	25	13
16	M 5/10 W 5/12	Physical Optics	24	-
17	M 5/17 W 5/19	Review Final Exam		

Homework:

Weekly problem assignments will be given every Monday during the recitation section and will be due the following Monday AT THE BEGINNING OF CLASS (6:00 pm). No late homework will be accepted. The lowest homework score will be dropped in computing your homework grade.

Recitation:

Each week during the recitation section we will go over the solutions to the previous week's homework problems, and you will receive the next week's homework assignment. The recitations will include a discussion of problem-solving tips that you will find useful for the exams. We may occasionally have demonstrations or other activities.

Laboratory:

Each week you will carry out a laboratory experiment and turn in a written report. Attendance at laboratory sessions is mandatory; you will not receive credit for laboratory sessions you did not attend. Laboratory reports will be due the following Wednesday at the beginning of class, and must follow the format outlined in the laboratory manual. The lowest lab report score will be dropped in computing your laboratory grade.

Exams:

Two exams will be given during the semester and will be scheduled at least one week in advance. If you must be absent from an exam, consult with your instructor BEFORE the exam is given. There will be no need to memorize formulae for an exam; all the important formulae will appear on a formula page passed out with the exam.

Final Exam:

In addition to these three exams, there will be a comprehensive final exam on May 19 from 6:00 to 8:00 pm.

Grading:

Your final grade will be based on your scores on homework, lab work, the three exams, and the final exam, as follows:

Homework	20%
Laboratory reports	15%
2 exams @ 20% each	40%
Final exam	25%

Grading will be determined by a class average. The following scores will be sufficient to earn the following grades:

A	90%
B	80%
C	70%
D	60%

Q Grades: Students are expected to attend and participate in class activities. Students who either never attended the class or who ceased attendance during the first 20% of the course will be assigned a "Q" grade by the instructor. The Q grade is a final grade and will not be replaced with a different grade at a later time. Although the Q grade will not impact students GPA, the issuance of a Q grade will likely decrease students financial aid awards.

Classroom Policies:

Academic honesty and integrity will be expected of you at all times -- for this course or any other. I will deal with infractions quite severely.

Photocopied assignments will not be accepted.

Delayed College Openings:

When the college announces a delayed opening, all classes with at least 45 minutes of class time remaining at the time of the opening will be held. For example, in the event of a 10 a.m. opening, a 9:30-10:45 a.m. class will be held. This procedure applies to all credit classes.

Disability Support Services:

Students requesting academic accommodations are required to contact the Disability Support Services Office (B-124) or call (301) 322-0838 (voice) or (301) 322-0122 (TTY) to establish eligibility for services and accommodations. Students with documented disabilities should discuss the matter privately with their instructors at the beginning of the semester and provide a copy of their Student/Faculty Accommodation Form.

Code of Conduct:

The Prince George's Community College Code of Conduct defines the rights and responsibilities of students and establishes a system of procedures for dealing with students charged with violations of the code and other rules and regulations of the college. A student enrolling in the college assumes an obligation to conduct himself/herself in a manner compatible with the college's function as an educational institution. Refer to the 2009-2010 Student Handbook for a complete explanation of the Code of Conduct, including the Code of Academic Integrity and the procedure for dealing with disruptive student behavior.

Code of Academic Integrity:

The college is an institution of higher learning that holds academic integrity as its highest principle. In the pursuit of knowledge, the college community expects that all students, faculty, and staff will share responsibility for adhering to the values of honesty and unquestionable integrity. To support a community committed to academic achievement and scholarship, the Code of Academic Integrity advances the principle of honest representation in the work that is produced by students seeking to engage fully in the learning process. The complete text of the Code of Academic Integrity is in the 2009-2010 Student Handbook and posted on the college's website.