

PRINCE GEORGE'S COMMUNITY COLLEGE

INTRODUCTORY PHYSICS II

PHY 1020	Instructor:	Dr. D. Simpson
Section 44978	Office:	310-I Chesapeake Hall
Spring 2012	Office Hours:	Mon 5:30-6:00 pm Wed 5:30-6:00 pm
Lec. MW 6:00-7:15 pm CHES-305	Telephone:	(301) 322-0990 ext. 4768
Rec. M 7:30-8:20 pm CHES-301	Email:	dsimpson@pgcc.edu
Lab W 7:30-9:20 pm CHES-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 10, J. McClure, 2010.

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

15	M 4/30	Physical Optics	24	-
	W 5/2			
16	M 5/7	Modern Physics	-	-
	W 5/9	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). 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 two exams, there will be a comprehensive final exam on May 9 from 6:00 to 8:00 pm.

Grading:

Your final grade will be based on your scores on homework, lab work, the two 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.

Faculty are required to report the date of last attendance for each student receiving Q or F grade(s) in order for the college to report this date to a variety of federal agencies as mandated. The date of last attendance is considered the date of the students termination from the course, regardless of the date of grade submission. Early termination from a course may result in reduction in student loans and financial aid (e.g., Pell, VA benefits) and may require the student to reimburse funds to the funding agency.

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. To sign up for text alerts such as school closings and delays, log in to myPGCC from my.pgcc.edu or from www.pgcc.edu and click Owl Alert Notification System on the Bookmarks tab. Owl Alert is the colleges instant messaging and email notification system.

#### 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.

#### Civility Statement:

To promote a community of scholarship and civility, everyone at Prince Georges Community College is expected to be respectful, tolerant and courteous towards others at all times, adhere to college policies and procedures, and respect college property. Creating a culture of civility both inside and outside the classroom is everyones responsibility.

Civility is a college-wide commitment and in order to identify PGCC students, we are requiring that ALL students have their IDs visible while AT ANY COLLEGE SITE, WHETHER THEY ARE ON THE LARGO CAMPUS OR ANY EXTENSION SITE.

Lanyards and ID holders can be obtained at the following locations:

Largo Campus - College Life Services and the Admissions & Records Office  
Laurel College Center - Main office, Room 205  
Joint Base Andrews - Main office  
University Town Center - Front desk

Students must keep their IDs current by requesting the appropriate sticker each semester from the Admissions & Records Office or extension centers.

#### 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 2010-2011 Student Handbook, beginning on page 38, 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 2010-2011 Student Handbook (pages 40-42) and posted on the college's website.