Laboratory Syllabus
PHYS 104
Principles of Physics II

General Information
Location
Regents 119

Professor Information
Patrick Johnson
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Description
The PHYS102 laboratory topics complement the lecture content and include: reflection, refraction, interference, diffraction, optics, electrostatics, potential, circuits, magnetism, magnetic induction, electromagnetic waves, and emission spectra.

The concepts you learn in lecture are not simply abstract ideas: they constitute the framework that physicists use to represent how the real world actually works. This laboratory course gives you the opportunity to test out these concepts in experiments you construct. The hands on application of your understanding of physics in the laboratory will support your learning in the classroom.

To get the most out of this learning opportunity, you must commit yourself to being actively engaged in the laboratory session. This means thinking carefully about what you expect to observe, as well as what your results say about what actually happened. Be unafraid to express your thoughts in lively discussions—this is the sound of learning in action.

All lab content is posted online to Canvas (http://canvas.georgetown.edu). There is no textbook. You do not need any special supplies, except a pen or pencil (preferred) and calculator.

There are two laboratory sections. The enrollment is limited to 24 students per section. To accommodate as many students as possible, and in order to stay within this limit, we may ask you to change sections.

Session format
You are expected to arrive on time and come prepared for the lab session. The lab instructions are available on Canvas for you to review in advance.

An Instructor and/or a Teaching Assistant will lead your lab section. You will need to submit your lab report by the end of the lab session (at 12:45PM). If you need additional time, there will be no late penalty assessed in the first 24 hours after the due date.
We expect you to work collaboratively and share the responsibilities of the lab with your lab partners (two at most). However, the lab report is your own, so you do not have to agree with your lab partners on the answers to the questions asked in the report.

You are required to check in with your instructor or TA at several points during each lab before continuing on to the remainder of the lab activities. The purpose is to ensure that you have an adequate data set for subsequent analysis. By signing your check points, your instructor or TA is NOT indicating that your answers in your report are correct.

**Grading**

You will be graded based on the quality of your experimental work, whether you used acceptable scientific standards to report results, and the accuracy of your answers to the questions in the report. Failure to properly sign out may result in a deduction to your lab report grade.

Your report is due at the end of your lab session, unless otherwise stated by your Instructor. Late reports receive no more than half credit.

All regrade request are to be sent to Prof. Johnson (pgj7@georgetown.edu).

Unexcused missed labs receive 0 points.

Your final numerical grade for lab is the average of your equally weighted lab report grades.

**Policies**

**Rescheduling labs**

A request will be considered ONLY for the most extreme circumstances (e.g., severe illness, death in the family, legal obligation, religious holidays, etc), and must be made up at the first available opportunity within the same week if possible. In the event of a sudden illness, you must send an email to Prof. Johnson (pgj7@georgetown.edu) as soon as possible.

Failure to follow this policy will make the absence unexcused.

**Collaborative work**

You will be working collaboratively with other students in this course. You are encouraged to discuss your thoughts with your fellow students and with the instructors and TAs.

Please keep in mind, however, that you must turn in your own work. If two students turn in nearly identical solutions, neither will get credit. Copying someone else's work without understanding it is not only a violation of the Honor System (http://honorcouncil.georgetown.edu), but also a way to guarantee that you won't learn anything.
Sexual misconduct
Georgetown University and its faculty are committed to supporting survivors of sexual misconduct, including relationship violence, sexual harassment and sexual assault. University policy requires faculty members to report any disclosures about sexual misconduct to the Title IX Coordinator, whose role is to coordinate the University’s response to sexual misconduct. Georgetown has a number of fully confidential professional resources who can provide support and assistance to survivors of sexual assault and other forms of sexual misconduct. These resources include:

Jen Schweer, MA, LPC
Associate Director of Health Education Services for Sexual Assault Response and Prevention
(202) 687-0323
jls242@georgetown.edu

Erica Shirley
Trauma Specialist, Counseling and Psychiatric Services (CAPS)
(202) 687-6985
els54@georgetown.edu

More information about campus resources and reporting sexual misconduct can be found at: http://sexualassault.georgetown.edu.