SUMMER SESSION II 2020
PHYS 1512 Lab Syllabus

Fill in the spaces below for your section during the first day of lab:

Section & Time: R21 meets at 12:30 pm
Professor: ______________________
Contact Info: ______________________
Meeting Location: Freeman B08
Required Materials: Physics II Course Pack, purchase in Freeman 208
Lab notebook (NOT a collection of loose-leaf paper!)

Recommended Materials: USB flash drive, calculator

This lab is meant to act as both an extension and a supplement to the lectures for Phys 1502, 1602, and 1702.

Grade Policy:
Lab reports: 80% Final: 20%

Preparation for the experiment

- Thoroughly read the lab manual for a given experiment before coming to lab.
- There will be exercises for each lab that you must turn in at the beginning of lab.
- We will have a pre-lab lecture to “fill in the gaps” of your pre-lab reading.

Lab Reports

- Out of 11 labs for the semester, the lowest non-zero lab report will be dropped. (Lab reports not turned in will count as zeros, and thus not dropped.)
- The lab reports are the most important part of the course, and must be turned in at the beginning of the following lab.
- Follow the guidelines in the Physics I lab manual1 for the reports, most importantly that each student must turn in his/her own work.

Obviously you may encounter technical difficulties (computers crashing, printers not working, etc.), but you should anticipate that such problems may occur. That is,

1If you need another copy of these guidelines, ask your instructor.
1 Standing Waves
2 Optics I: Refraction, Reflection, and Polarization
3 Optics II: Lenses
4 Laser: Interference and diffraction
5 Atomic Spectra and the Grating Spectrometer
6 Equipotentials and Electric Fields
7 DC Circuits and Ohm’s Law
8 RC Circuits
9 Alternating Current (AC) Measurements
10 Faraday’s Law
11 Charge-to-mass ratio \((e/m)\) of an electron