SUMMER SESSION II 2019
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:**

<table>
<thead>
<tr>
<th>Lab reports: 80%</th>
<th>Final: 20%</th>
</tr>
</thead>
</table>

**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 manual 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