

Physics 222 Lab Syllabus: Spring 2009

Instructor: Erik Olsen

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Office hours: Monday 11:15 am – 12:15 pm in Nielsen 201 or by appointment

Grading Scheme:

70% Lab Reports
20% Quizzes
10% Participation

Lab Reports:

A lab report must be turned in for every experiment performed. They should include the following:

Title page (with your name, partner's name, name and date of experiment)
Procedure and method (don't just copy the lab manual verbatim)
Graphs/Data Tables
Calculations (with Error Analysis)
Conclusion

Every lab report will be graded on a scale from 0 to 50.

Quizzes:

At the start of each recitation, I will give a short quiz on material from lecture or from the previous week's recitation. Each quiz will be graded on a scale from 0 to 10.

Q&A:

Do we work on each lab alone?

If you wish, you may work in groups of 2 or 3 (no more than 3). However, each member of the group must turn in a separate lab report.

When are lab reports due?

Lab reports are due one week after the experiment is performed. They must be handed in to me at the beginning of the recitation or placed in my mailbox by 12:00 pm (for days when there is no lab).

What are the late penalties?

For every day the lab report is late I take off 10 points.

What is your policy regarding missed labs?

Any lab you miss means an automatic zero for the lab report. However, I intend to drop everyone's lowest lab report grade (instead of doing a make-up lab) so if you miss a lab and get a zero it's no big deal.

Schedule:

1/14 and 1/16: Electric Fields
1/21 and 1/23: Ohm's Law I
1/28 and 1/30: Ohm's Law II
2/4 and 2/6: Wheatstone Bridge
2/11 and 2/13: Resistance vs. Temperature
2/18 and 2/20: Electrical Energy
2/25 and 2/27: e/m Ratio
3/4 and 3/6: Ampere's Law
3/11 and 3/13: RC and RL Circuits
3/18 and 3/20: No lab (Spring Break)
3/25 and 3/27: Photoelectric Effect
4/1 and 4/3: Balmer Series
4/8 and 4/10: No lab
4/15 and 4/17: Half-life of Ba-137
4/22 and 4/24: Make-up labs
4/24: Classes End
4/27: Study Period

***Another copy of the schedule can be found at:
<http://www.phys.utk.edu/labs/S09ph222syl.pdf>**