

University of Connecticut Storrs
Electricity & Magnetism Lab
132 section 8

Class time: Tuesday 1:00PM - 4:00PM - P206

INSTRUCTOR

Jason Byrd
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OFFICE HOURS

Tuesday 10:00am - 11:30am

Lab Sessions

Each lab session will be broken up into an introductory lecture covering the basic physics at hand, with the rest of the session dedicated towards performing the experiment and performing the analysis for your lab write up. The lab will not be done for you, it is your responsibility to arrive ready to do the lab, having read the lab manual and become familiar with the content.

Text

This lab uses the text "*Physics Laboratory Manual*" for physics 132.

Lab Reports

In-class write ups consist of answering the assigned questions out of the lab text and completing the asked for plots and data tables. Each in-class write up must be typed out and turned in at the end of the lab period. Content for each formal lab report will be covered in lab prior to the assignment, and a cover sheet check list will also be provided. General formatting of the formal lab report is covered in appendix B of the lab manual.

Grades

Your grade will be based off of **11** group lab write ups worth 40% of your grade and **4*** formal lab reports worth 60% of your grade. Letter grades will be given off a strict 60-70-80-90% scale, with a C at 75%. Each in-class write up is broken into two parts, assigned lab questions are worth 75% and the clear presentation of your data is worth 25% of that group lab write up. There will be a fifth optional lab report that, if taken, will replace your lowest lab report score. NOTE: there is no lab final for 132.

Satisfactory completion of the lab is **required** as part of your course grade. Those with a lab average below 60% will receive a semester grade of F for the entire lecture course. The lab grade will be worth 20% of your total lecture grade.

Attendance

Lab attendance is mandatory throughout the semester. If you miss two or more labs you will be given an incomplete for the entire course. If there is an emergency please contact your lab TA as soon as possible for make up options. Further more, failure to turn in more than two formal lab reports will result in a **failing** semester grade.

Late Work

All group lab write ups will be collected at the end of the allotted in-class time. Individual lab reports will be due the following week at the end of lab, with 10% total grade loss for that report after every 24 hour period it is late. Under special circumstances a makeup lab report will be offered. This must be prearranged with the lab TA and will be subject to close scrutiny.

Any make up lab must be made up the same week as the skipped lab. Only one exception can be made, where you may make up a missed lab during the last week of classes.

Plagiarism and Cheating

It is perfectly reasonable and expected that you will share information and ideas with colleagues. The lab session is meant to be a collaborative effort, and students will come to the table with different ideas and approaches to resolving the problems at hand. This exchange of ideas is encouraged. Since members of this class have highly diverse backgrounds, you are encouraged to help each other and learn from each other.

Plagiarism, however, will not be tolerated. Copying somebody else's work, presenting data that is not your own, adding your name to a problem that you didn't solve (...etc). All of these examples are considered cheating. You can find a detailed description on what constitutes academic fraud in your student handbook. Whether intentional or unintentional, plagiarism has profound consequences, even expulsion from the university. As a general rule, students can work as a group in-class, whereas reports and pre-lab work should be completed individually. If in doubt, ask your TA.

Lab Etiquette

It is your job to clean up your lab space after completing the lab, and before the next lab section begins. Equipment should be put away in the same manor that it was found at the beginning of lab. If any equipment is malfunctioning, report it immediately to the lab TA.

This is a scientific lab, so discussion and questions are encouraged. However class disruption is not encouraged. If you have questions direct them to myself in a clear and academic manner. Discussions within or between lab groups is also encouraged as long as it is not disruptive to the class as a whole.

The computers in the lab are also part of the necessary equipment. The same rules regarding negligence or miss handling also apply to them. Additionally, any changing of settings or installation of programs is strictly prohibited. Use of email and web browsing is restricted to lab-related necessities.

Lab Schedule

Week	Topic	Lab write up	Lab Report
1	No Lab	...	
2	No Lab	...	
3	Electric Fields	Due 4pm	
4	Ohms Law 1	Due 4pm	Due following week
5	Ohms Law 2	Due 4pm	
6	AC Circuits 1	Due 4pm	Due 03/07
7	Magnetic Fields	Due 4pm	
8	Spring Break
9	AC Circuits 2	Due 4pm	
10	Spectroscopy	Due 4pm	Due 04/01
11	Interference of Sound	Due 4pm	Joint with next weeks
12	Interference of Light	Due 4pm	Due following week
13	Lens Equation	Due 4pm	
14	Radiation	Due 4pm	<i>(optional)</i> Due following week
15	Makeup and Review	...	
16	Finals Week