

Physics 181L – Physics for Scientists and Engineers Laboratory II

Spring – 2012 Syllabus

General Information

Instructor: Jordan Stutz

Email: JordanStutz@gmail.com

Office: LP 110

Mail box: the physics office (Stutz)

Office hours: Tuesday 11AM-12PM (and by appointment)

E-mail is recommended

Lab meeting time: Wednesday 1:00-3:00 (sec 2)

Wednesday 3:00-5:00 (sec 3)

Wednesday 5:00-7:00 (sec 6)

Lab manuals webpage: <http://www.physics.unr.edu/LabsSpring.html>

Class Description and Objectives:

The purpose of the physics laboratory is to allow student to witness the concepts and physical laws that are introduced in lecture. You will also be exposed to elementary laboratory techniques. Every class will have a short lecture introducing the procedures, concepts, formulas and instructions relevant to the experiment. The lecture will also cover what is expect from you and how to write-up your lab-report. Please don't be late. Attendance is required and participation is expected. Experiments will be performed in groups. The lab write-ups can be written in groups of 2, or individual if the students so desires. If you wish to write your own lab report, be sure that your lab partner is aware of this decision.

Course Requirements:

Lab Etiquette:

- No FOOD/DRINKS/SMOKING/APPLYING of COSMETICS in the labs.
- Please turn off your cell phone.
- You and your partners must clean up and shut off equipment after you are finished with your lab.
Failing to doing so can affect your grade.
- Please report all damage equipment so it can be replaced.

Lab reports:

- There will be 11 lab experiments during the semester. Only 10 of the 11 labs will be graded allowing the student to drop their lowest grade.
- You are expected to read the lab experiments before class and have a printed copy of the lab with you in the class. This will help you perform the experiment and can serve as your data sheet.
- You will be responsible to get your individual data sheet signed by the instructor before leaving the lab. This signature will be counted as attendance.
- Lab reports are due the following class period at the beginning of lab. Each student will turn in an report, either with a partner or individually. A lab report which is one day late will have its grade docked 20%. The grade will be docked an additional 10% for each week the lab report is late.
- Lab reports that contain copied or plagiarized material **will be given a zero**. Lab reports for labs the student did not perform will be given a zero
- Putting your name on a lab reports says that you helped write the lab report. You will be responsible for the grade you get. If you are unhappy with a grade because of things like incompleteness, plagiarism, or the like, read the reports next time to ensure the report is to your liking.

- Typewritten lab reports are preferred, neatly hand-written lab reports are also accepted. Illegible lab reports are unacceptable.
- You can turn in graphs on graph paper or printed out. Hand-drawn graphs on anything other than graph papers are unacceptable.
- Please follow the given format for the lab write-ups. This format can be found at the lab manual website.

Attendance:

You are required to attend all the classes. If you must miss a lab due to an excused absence (illness, emergency or pre-arranged absence), you should arrange to make up the lab during a different lab session that week (the week of your absence). You should contact both instructors before attending another lab section. No more than **two labs** can be done in other lab sections. By department rules, if you miss **three or more classes** you will receive a failing grade for the lab section. There is no way to make up the labs. Lab reports that are turned in for experiments which you did not attend/perform will not be graded. You are expected to be to class on time.

Laboratory safety:

Experimental work can expose one to various kinds of hazards (electric shock, burns, cuts...). Every person working in the laboratory should be aware of their surroundings so as to avoid possible injury. Be aware and reduce the risk of injury and/or damaging the equipment. Report any accident immediately.

Schedule

02/08/12	Orientation/ Oscilloscope
02/15/12	Gas Law
02/22/12	Heat of Fusion
02/29/12	Thermal Expansion
03/07/12	Electrostatics
03/14/12	Mapping Electric Fields
03/28/12	EMF Source
04/04/12	Electrical Equivalent of Heat
04/11/12	RC-LRC Circuits
04/18/12	E/M Experiment
04/25/12	Polarization of Microwaves

ADA: Any student wishing to apply for academic accommodations or adjustments is requested to inform the instructor, or contact the Disability Resource Center (DRC, Thompson, Suite 101, phone 784-6000) directly, as soon as possible to arrange appropriate actions. The DRC will be able to answer any questions regarding accommodations or adjustments.

Academic Success Services: For example, "Your student fees cover usage of the Math Center (784-443 or www.unr.edu/mathcenter/), Tutoring Center (784-6801 or www.unr.edu/tutoring/), and University Writing Center (784-6030 or www.unr.edu/writing_center/). These centers support your classroom learning; it is your responsibility to take advantage of their services. Keep in mind that seeking help outside of class is the sign a responsible and successful student."

Academic Integrity: All examinations, homework, and quizzes must be your own work; any act of plagiarism (cheating, piracy, theft, etc.). Plagiarism or otherwise obtaining grades under false pretenses" constitute academic dishonesty according to the code of this university. Academic dishonesty will not be tolerated and penalties can include canceling a student's enrollment without a grade, giving an F for the course or for the assignment. For more details, see the UNR General Catalog.

**This syllabus is subject to change.