

## REGULATIONS AND RULES FOR PHYSICS 230 LAB

**Philosophy:** This is a simulation of the real world.

Number of students per group: Four students is the maximum number per group.

Starting time: Either the lab-scheduled time comes or when each member in the group physically shows up and passes a lab quiz. Whichever is later, your group can start collecting equipment you need for the lab. If one or two members in your lab group won't show up, you need to make a decision. You can wait until the missing member shows up or you can start the lab. If you decide to start the lab and the missing member shows up, there are three possibilities: 1. You can include the member, but you have to put everything back and re-start all over. You can't use any data you collected when the missing member was not there. 2. The missing member finds another group which has a room and has not started yet, or 3. The missing member can do the lab by him or herself. Being punctual is one of the requirements in the professional world. If you have a bad habit of not being on time, you should either change or find members who don't care about not being on time. You have no right to lower other members' lab points because of your bad habit.

Changing Group members: As long as each group is less or equal to four, it is free to add or subtract member(s) from your group. If a member is not working or contributing for the group, I encourage you to kick out that student. After all, the lab grade is the group effort and the lazy person does not deserve the same score as you do or even a worse case, he/she can pull your grade down because of his/her poor performance during the interview.

The lab report: Each group is going to produce one lab report. You can find the format of the report somewhere else. The maximum score for each lab is 10 points.

Deadlines: Just like the real world, you will have to fight against the deadlines all the time. You are supposed to turn in your lab report before the given deadline. If you don't meet the deadline in the real world, you will be standing on the other line in an unemployment office next week. However, this class is not that serious yet. You lose points. Also, if you finish your job faster than the deadline in the real world, they give you a bonus. You get a similar treatment in this class – you get extra points which will make it easier for you to get an A in the lab. The deadlines and bonus points are determined the following ways:

If you turn in a lab report within,

	Extra points
<1 hour	+3 (so the possible points is 13 instead of 10)
<1.5 hours	+2
<2 hours	+1
<2.5 hours	+0 (this is the dead line)
2 hours 30 minutes to 2 hours 35 minutes	-1
2 hours 35 minutes to 2 hours 40 minutes	-2
2 hours 40 minutes to 2 hours 45 minutes	-3

Subtraction of a point is every 5 minutes as you can see. You don't need to turn in your report if it is after 3 hours 15 minutes since you will start from the score of 0. Also, please be advised that you do not get any extra

points if your lab work/result is sloppy. Do not turn in your lab report early to try to get extra points. If your lab report or result is sloppy, there will be no any extra points.

### **Lab Quiz:**

Each lab quiz is about the lab you are about to perform. If you understand the theory and how to do the lab, it should take less than 10 minutes. You will get two chances to pass the quiz. If you don't pass the quiz, you are not prepared enough and the lab will not help you understand Physics. You can observe the lab, but cannot participate. Consequently, you are not going to get a credit for that lab. The lab quizzes are for individual students and are not allowed to help others. If you help others during the quiz, you will be asked to remove yourself from the lab room. If caught for the second time, you will fail the course. This is cheating and is not fair with other groups.

### **Helpful hints to be successful in the lab:**

Communications between the students in the group are extremely important. Make sure everyone in the group has everybody else's email address and a phone number. Friday before the lab, there is an official lab prep session. There should be at least two members per group attending this session. Make sure everyone reads a lab report (especially the procedure section) and have a time to go over the lab prior to the lab period. If there is any question regarding the lab procedure, theory, or calculation, ask the instructor **prior** to the lab period. **The instructor is not available to answer any questions regarding the lab during the lab period.** If you are serious about this course, choose other members who are also as serious as you are. If anyone who is not willing, capable, or lazy is in your group, kick that person out from your group. This sounds very cold, but unless you don't mind loosing your job because of that person does not do his/her part, you have to learn how to protect yourself.

### **Grading Policies**

Grades are determined by scores received on quizzes, exams, and laboratory work according to the following plan. However, to receive a "C" or better for the course grade, each student **must** receive "C" or better in each lecture and laboratory work:

Quiz :	20%
Exam 1:	20%
Exam 2:	30%
Exam 3:	10%
Lab:	20%

### **Lab fee**

There is no lab material fee for this lab. However, if your group chooses to print out, the printer is available in the lab room. The usage of the printer is same as other printers on campus.

### **MAKE-UP LAB**

There is a make-up lab at the end of the semester. You can choose one lab for a make-up and whatever the grade you earn on your make-up will replace the old score. Notify your instructor which lab is your make-up lab at least two days prior to your make-up date. When you do the make-up lab, you are expected to turn in a better lab report. Correct all the mistakes and improve your lab write up (i.e. procedure, diagrams, data, etc). When you are done with the make-up lab, turn in BOTH (old and new) lab reports. Of course, the lab report will be graded with greater expectations.

## **Lab Preparation**

If a group decided to get together and prepare the next week's lab and use the equipment, follow the rules below.

1. You may use the room when it is not in session.
2. You may prepare until the day before your lab (not on the day of your lab).
3. You must check in with either Mr. Gerwig or Mr. Nakajima.
4. You must log in.
5. You must not take any equipment from the front table in NS-252. If you need anything from the front table, you must ask either Mr. Gerwig or Mr. Nakajima.
6. You must not use a power source.
7. You must not take any data.

Any student who breaks the rule will not be able to come in to 231 lab room.