

Laboratory Manual: Experiments for an Introductory Physics Course, 5th ed., Wood-Lewis

If you are retaking the course and are happy with the final lab grade you received previously, you do not have to attend the lab. You do have to remain registered for the lab, but you do not have to attend. Please contact the Lab Coordinator (see contact information below) **BEFORE THE END OF THE DROP/ADD PERIOD** so that your seat may be made available to another student. If you would like to improve your grade, you must do **ALL** of the lab exercises again.

Physics 1111L/7111L Lab Syllabus

Summer 2009

6/01/09

Week	Date	Experiment	Exercise #
1b	June 5	NO LAB	
2a	June 8 - 9	NO LAB	
2b	June 10-11	1 st Lab	1
3a	June 15 - 16	Motion with Constant Acceleration	2
3b	June 17 - 18	Equilibrium of a Point Mass	3
4a	June 22 - 23	Newton's 2 nd Law	4
4b	June 24 - 25	Uniform Circular Motion	5
5a	June 29 - 30	NO LAB	
5b	July 1 - 2	NO LAB	
6a	July 6 - 7	Ballistic Pendulum	7
6b	July 8 - 9	Simple Harmonic Motion	8
7a	July 13 - 14	Standing Waves in a String	9
7b	July 15 - 16	Specific Heat Capacity	10
8a	July 20 - 21	Mechanical Equivalent Of Heat	11
8b	July 22 - 23	<i>Lab Finals—Attend at your regular day and time.</i>	
9a	July 27 - 28	<i>Attend lab to look at exam and get final grade</i>	

You may never attend a lab section other than the one for which you registered unless you have permission from the Laboratory Coordinator (contact information below). Your TA cannot authorize this.

Laboratory Coordinator: Tom Barnello Room 310 Physics, (706)542-2903, tjbar@physast.uga.edu

We welcome any comments or suggestions on the lab course evaluation for improving the laboratory course. Thank you.

Please note: The rules below and on the next page supersede anything your Teaching Assistant (TA) tells you to the contrary. If that happens, please bring it to the attention of your TA, or ask the Laboratory Coordinator for clarification.

1. **Preparation:** You must read through the experiment and also relevant material in the textbook **before** attending the lab. The more prepared you are the better, especially in those cases where the lab gets ahead of the lecture.
2. The only things you need to bring to the lab are your lab manual, a calculator, and a pen or pencil. **If you bring a completed worksheet from another student into the lab, or even a worksheet of your own from a previous semester, you will receive a zero for that experiment and that zero will count in your final average.** (Please put your name on your calculator in case it gets lost. Room 310 is the Lost and Found repository for the physics building.)
3. **Sign In:** You **must** sign in when you enter the lab. A sign-in sheet will be located on the lab bench at the front of the room. ***Not signing in may result in a grade penalty for that experiment.***
4. **Late Policy:** At the start of the lab the TA will outline important procedures and safety guidelines. ***Please do not be late!*** The labs will start promptly at the scheduled time. **Approximately** 10 minutes after that, the door to the lab room will be locked and a sign will be posted on the door, which says, “You have arrived too late to do the experiment.” If the door is locked and/or that sign is posted, you have missed the lab and will receive a zero for that experiment.
5. After the introductory lecture, you will perform the experiment. You will usually perform the experiment with a lab partner, but **you must answer all questions on the worksheet IN YOUR OWN WORDS.** ***Not doing so will result in a grade penalty.***
6. **Clean Up and Check Out:** When you have completed the experiment, please clean up your station! Remove all trash and follow the guidelines given by your TA or written on the front board for dismantling the equipment to make it ready for the next class. After you have cleaned up, call the TA over to check you out. Write your name **and your lab partner’s name** at the top of the worksheet and give it to the TA. If you have handed in a worksheet and cleaned up your station properly, the TA will put a check next to your name on the sign-in sheet. ***Do not leave the lab room before your TA has checked-off your name on the sign-in sheet. Leaving the lab without checking out will result in a grade penalty.***
7. **Please keep all graded worksheets on file.** In the event that a grade is not recorded properly, you may be asked to bring in the graded report as proof that you completed the lab.
8. **You will receive a zero for each experiment that you do not perform. There are no make-up labs.**

9. **Laboratory Grade:** Your lab grade will be a combination of:
- The average of the best 8 out of 10 grades you receive on your lab worksheets = 70% of the lab grade.
 - The grade on the lab final = 30% of the lab grade.

10. **Missing an experiment:** There are all sorts of reasons that you might have for missing an experiment. Some reasons may be considered “*legitimate*” excuses and some may not. What may seem like a *legitimate* excuse to you may not be considered one by us. What constitutes a *legitimate* excuse will be at the discretion of the Laboratory Coordinator, but includes such things as illness requiring a visit to the doctor; university-related travel; etc.

Missing an experiment because your car broke down, the bus ran late, the power went out and your alarm did not wake you, you had to study for a test, you were ill but did not see a doctor or go to the Health Center, etc., **are NOT considered legitimate excuses.**

If you miss an experiment with a legitimate excuse, ALWAYS get documentation to prove it—a note on official letterhead, signed by an appropriate authority: doctor, professor, etc. Even missing an experiment to attend a “family-related event,” must be proven by some form of documentation: a wedding invitation, funeral notice, etc. (Most funeral homes will provide this documentation.) You may have to provide that documentation to the Lab Coordinator in the event that you miss more than two experiments (see (b) below). If you know in advance that you are going to miss a lab, but you are not sure if the reason will be considered a legitimate excuse, please contact the Laboratory Coordinator.

CAUTION: You must be very careful about missing experiments without legitimate excuses. If you miss two experiments without legitimate excuses and then miss a third experiment, you will get a zero for that third experiment even if you have missed it with a legitimate excuse. In other words, leave open the option of missing an experiment for “life’s unforeseen circumstances.”

a.) Missing One or Two Experiments: If you miss one or two experiments you will not be penalized since we only take the best 8 of 10 worksheet grades.

b.) Missing Three (or more) Experiments: If you miss a third experiment (or know in advance that you will be missing a third experiment) contact the Laboratory Coordinator **IMMEDIATELY—the same day if possible!** The Lab Coordinator will deal with these situations on a case-by-case basis and decide what to do based on how many legitimate excuses you have (see the **CAUTION** statement above) and what type of documentation you provide to prove them.

11. **Missing the Lab Final:** If you miss the lab final **contact the Lab Coordinator IMMEDIATELY—the same day if possible!** The Lab Coordinator will decide if you will be allowed to do a make-up final in another lab section during the week of the lab final. **If you miss the lab final without a legitimate excuse you will be penalized.**

