

Syllabus for PHYS 221
Laboratory Physics for Science and Engineering
Fall 2020

Laboratory Location: Room 103B Lewis Hall

Teaching Assistant- Your TA (email Yourta@go.olemiss) Office Hours (TBA)

Instructor – Bin Xiao – Instructor of record and final arbiter of grades. Email- bxiao@phy.olemiss.edu

Lab Physicist – Thomas Jamerson

Corequisite Course– PHYS 211 is required.

General hybrid lab guidelines: Because of the COVID19 restrictions in place this lab will be conducted in a ‘hybrid’ format which means some labs will be in-person and some labs will be on-line only. Students will need to review either a ‘Power Point’ presentation posted on lab website and/or a lab introduction video posted on BLACKBOARD before attending a lab. This will allow you to successfully complete the lab Pre-lab and be prepared to do the experiment in a timely manner.

Since social distancing restricts the number of students allowed in the lab at one time, one half of you will attend the first hour of lab and the other half of you will attend the 2nd hour of the lab. **You will be notified of which time to attend before first in-person lab.**

Upon entering the lab, you should grab a sanitizer wipe and proceed directly to your assigned table and wipe down the lab equipment before starting experiment.

Goals: In this course you will perform experiments that complement and supplement the concepts studied in the corequisite lecture course, PHYS 211. You will learn laboratory skills and gain an understanding of laboratory measurements and their uncertainties. As in most Physics classes, critical thinking, analytical reasoning and problem solving skills will be emphasized.

At the beginning of each weekly in-person lab session, each student should turn in the appropriate **lab report** on the previous week’s lab experiment and also turn in the **pre-lab** for the current week’s experiment. *Both the Lab report and the Pre-lab are due at the beginning of the weekly lab session unless a lab meets on-line only. Lab reports and Pre-labs will then be submitted via BLACKBOARD.*

Late Lab reports and/or Pre-labs will be penalized. The standard penalty for late reports is a loss of 10% of the total value per day. Addition information on Lab Policies can be found online at <http://relativity.phy.olemiss.edu/~thomas/> under the Lab Policy/Introduction tab. Each student should read and follow these policies.

Data collected in lab must be initialed by your instructor at the end of each experiment when time allows.

Lab Duplication Policy: You are not permitted to copy old lab reports or give your reports (paper or electronic versions) to other students (in both the current or subsequent semesters). An electronic copy of your lab report must be submitted to SAFE ASSIGN, which will check for plagiarism. Significant cases of plagiarism or cheating will be referred to the Academic Disciplinary Committee and may result in automatic failure of the course.

Grading Scale: A: 93-100, A-: 90-93, B+: 87-90, B: 83-87, B-: 80-83, C+: 77-80, C: 73-77, C-: 70-73, D: 60-70, F < 60.

Grades will be based on pre-labs, full lab reports, short lab reports and lab final:

Pre-labs	10%
Short lab reports	30
Long Lab reports	<u>60</u>
	100%

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You will be given: one drop grade for pre-labs, one drop grade for quizzes, and one drop grade for a “short” lab reports (i.e., the lowest grade from all pre-labs will be dropped before averaging the pre-labs, etc.). **No drop grades are allowed for Full lab reports.**

Lab attendance (in-person labs): Attendance is mandatory. You must attend the section for which you registered unless given permission by the Lab Physicist or Instructor of Record. For each time that you do not attend your weekly lab session, you will receive a grade of zero for that week’s Pre-lab, Quiz, and the corresponding lab report.

Absences may be excused for legitimate, well-documented reasons; if excused, the missed lab will be rescheduled, as described below.

Anticipated excused absences (e.g., university-sponsored athletic requirement or academic conference): Contact your TA or the Lab Physicist no later than one week before the lab you are scheduled to miss. They will schedule you for another lab section that week if possible or for a makeup lab later in the semester when necessary.

Unanticipated excused absences (e.g., contagious/severe illness or family funeral): Contact your TA as soon as possible. If possible, they will schedule you later in the week; if not possible, then the makeup time will be either be near midterms or the last week of classes.

Lab attendance (on-line labs): Students attending the virtual (on-line) component of hybrid courses are subject to the same attendance policy and procedures as traditional students. Attendance for on-line labs is defined as being ‘present’ for any labs that meet via ‘Zoom’ or some other video conferencing app. For on-line labs that have no ‘Zoom’ component, **on-time** submission of the Pre-lab (or Quiz) will be counted as meeting lab attendance requirements.

Lab Webpage: The lab webpage can be found at the following URL below. This website contains the pre-labs, experiment procedures, lab schedules and other lab items.

<http://relativity.phy.olemiss.edu/~thomas/>

COVID19 Guidelines:

- Properly worn face coverings are required when in the Lewis Hall (as is the case for all University buildings). You will be provided disinfecting wipes in order to wipe down surfaces that you will touch while in the lab.
- In adherence with the University’s COVID-19 guidelines (which includes ‘facial covering, social distancing, hand hygiene, etc.’) that has been provided to you all by the University, you will not be allowed in the lab (or asked to leave the lab) if you do not comply with these guidelines.
- "Failure to adhere to health requirements during the COVID-19 emergency will be deemed disruptive to the classroom and will be enforced following the Academic Conduct & discipline procedures."
- The University of Mississippi has adopted a ‘tiered disciplinary protocol’ for nonadherence to COVID-19 health requirements. This disciplinary protocol is maintained by the Office of Conflict Resolution and Student Conduct(<https://conflictresolution.olemiss.edu/>)