

Physical Science Lab - PSCI 101L

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(843) 661-1445

W 1:30 - 4:30 PM LSF 105

Office: LSF L103H

Office Hours: By appointment, preferably via Zoom/Discord/Slack/Hangouts/Teams/Etc. I will definitely be available MTH 2:00 AM - 3:00 PM.

Zoom Info

Class Meeting Link: <https://zoom.us/j/98308872964>

“Office” Meeting Link: <https://zoom.us/j/95277166362>

Learning Goals:

By the end of this course, the student will

- Be comfortable recording data and observations from simple experiments
- Obtain a greater appreciation for the connection between classwork and reality
- Be able to express and discuss the results of an experiment in a clear manner that allows for the student’s work to be reproduced by others

Schedule of Labs

Week of August 17:	Introduction (Online)
Week of August 24:	Measuring Density (Online)
Week of August 31:	Graphical Representation of Data (Online)
Week of September 7:	No Lab
Week of September 14:	Investigating Motion/Acceleration
Week of September 21:	Free-Fall Motion
Week of September 28:	Kill the Tiger
Week of October 5:	Newton’s Second Law
Week of October 12:	Work and Simple Machines
Week of October 19:	Sound Waves and Beats
Week of October 26:	Electric Circuits
Week of November 2:	Electricity and Magnetism
Week of November 9:	Make-up for weather days or Final Exam
Week of November 16:	Final Exam

Academic Integrity

The labs are completed as a group, but each lab report must be the sole product of each student's brain and effort (in other words, all cheating or plagiarism will be reported and handled as detailed in the Student Handbook). There will of course be significant similarity in the reports within a group, but each student should use their own words (and not those of the lab manual nor their lab partner). For my part, I will not discriminate against any student for any reason and will make any reasonable accommodations necessary to meet a student's needs. No discriminatory or hostile behavior toward fellow students will be tolerated.

Grading

Your grade will be determined by the following rubric:

	Poor	Adequate	Exceptional
Completion of lab	Student missed the lab session or attempted only a small portion of the lab activity. (0 - 10 pts)	Student did not fully complete the lab activity. (11 - 24 pts)	Student completed the lab activity. (25 pts)
Results	Results show little evidence of effort or carefulness. Units are not used or are used incorrectly. (0 - 15 pts)	The results of the experiment are presented but are outside acceptable uncertainty/error bounds. Some units may be missing. (16 - 30 pts)	The results of the experiment are presented well (with all units). Results are reasonable given the limitations of the equipment and experience level. Some errors may be present. (31 - 40 pts)
Analysis	Answers to questions are both incorrect and show a misunderstanding of the physical principles. (0 - 10 pts)	Answers to questions are generally lacking in accuracy and understanding, or answers may vary in correctness or completeness. (11 - 25 pts)	Answers are given in complete sentences and are correct/show a reasonable thought process. Some errors may be present. (26 - 35 pts)

Each lab report will be weighted equally in determining the final grade, and I will drop the lowest lab. The Final Exam counts as two lab grades (and cannot be a “dropped” grade). **Lab reports will be completed online (outside of class).** If the student is unable to attend a lab session, he or she must contact me in advance and arrange to attend a different session for that week. No credit will be given for labs that the student did not attend, nor does the student receive credit simply for attendance. **Your grade does not depend on getting a perfect result (in fact, this does not enter into your grade at all and would be a bit suspicious).** However, your result should be the product of careful work and represent your best effort.