

Physics 110L: Introductory Physics LAB

Syllabus

Lab sessions: Science Center 104W, 2:00 – 5:00 PM
Section M, Monday; Section T, Tuesday

We start the week of August 31.

Instructor: Amy Sullivan
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Office Hours: Mon. 11 AM – 12 PM,
Tues. 10 – 11 AM, Wed. 4 – 5 PM
Or by appointment

Lab Etiquette: We will be handling sensitive and fragile pieces of equipment this semester. It is imperative that you treat all equipment with respect and follow all instructions for care. You are also expected to leave your area tidy and all equipment as you found it, properly put away. *Read all instructions* carefully coming to lab. Record *everything*---the setup you constructed, any settings on the equipment, and as many significant figures as you have for each result. It is much easier to round off later than to redo the experiment to get the numbers you need at the end. Allow all members of the team to participate every week. *Such etiquette will be factored into your final lab grade.*

Grading

The grade on the lab reports will constitute the bulk of your lab grade. They will be handed in at the end of lab each week. Late lab notebooks will not be accepted. Fifteen percent of your grade will also be based on your prelabs and your lab participation.

Missed labs and Make-ups: Lab should be missed only by prior agreement, for a College-excusable reason; and made up in another MT weekly session for that lab when possible. Lab missed without prior agreement should involve truly dire emergency or illness, and be made up (if excused) in another MT weekly session for that lab if possible. When the emergency, illness, or College-excusable conflict precludes making up the lab, we will simply exempt you from the affected lab – provided the number of labs missed over the course of the semester remains 2 or less.

Honor Code: Lab is a cooperative activity, yet you are individually responsible for your learning and your results. You are honor bound to participate in, and personally understand, all procedures and calculations completed by your lab team; to assume the full variety of roles during each lab (not being designated measurer, scribe, assembler, or calculator, but rotating through each role); and to record measurements and results honestly. You should record your own data, and the lab reports that you turn in **must** be your own work in your own words. **You cannot copy or paraphrase your partner's reports.**

Web Resources: All lab handouts are available online, on Moodle.

Calendar

We will complete the following labs:

Week 1 (8/31, 9/1)	Introduction, Uncertainty
Week of (9/7, 9/8)	Labor Day: No lab
Week 2 (9/14, 9/15)	Freefall
Week 3 (9/21, 9/22)	Force Tables, vectors
Week 4 (9/28, 9/29)	Atwood Machine
Week 5 (10/5, 10/6)	Centripetal Motion
Week of (10/12, 10/13)	October Break: No lab
Week 6 (10/19, 10/20)	Energy Conservation
Week 7 (10/26, 10/27)	Collisions
Week 8 (11/2, 11/3)	Static Equilibrium
Week 9 (11/9, 11/10)	Moment of Inertia
Week 10 (11/16, 11/17)	Oscillations
Week of (11/23, 11/24)	Thanksgiving: No lab
Week 11 (11/30, 12/1)	Wrap up, diagnostics