

PHY225 SYLLABUS – SUMMER A semester, 2024

Date	Room	Experiment Title	
May	13	102	Coulomb's Law
	15	102	The Millikan-Fletcher Experiment
	17	102	Equipotentials and Electric Fields
	20	102	DC Electrical Measurements
	22	101	Force between Two Current-Carrying Wires
	24	101	Magnetic Field Distribution of Solenoids
	27	101	Determination of the Ratio e/m for the Electron
	29	100	The Oscilloscope and its Use
	31	100	Capacitors and RC Circuits
June	3	100	Alternating Current Circuits

IMPORTANT NOTES

1. The text of the upcoming experiment must be studied before coming to class. The text is available online in the Course Documents on Blackboard;
2. In the PRE-LAB TESTS folder on Blackboard there are two-problem online pre-lab tests based on the text of each experiment. The aim of the tests is to stimulate the independent study. Each pre-lab test contributes max 1.5 points credit towards the 100 points max final grade, aggregating to 15% of it. Deadline for the responses is one hour before the lab start;
3. There will be at least four in-lab quizzes during the semester over material of passed labs. They will count 15% of the final grade and will substitute for the final exam;
4. Showing up on the first two class sessions is of high importance, so much so that missing them leads to automatic drop of the course;
5. One missed lab out of ten will decrease your lab report portion of the final grade by 10% automatically. Two missed labs will result in a failing grade. **Legitimate emergency cases should arrange for make up immediately** (no reading days for labs) by contacting the lab class instructor and the labs office at ugradlabs@physics.miami.edu.