

**Physics 225 Labs – ALL SECTIONS**  
**SYLLABUS – SPRING SEMESTER, 2024**

<b>Week of</b>	<b>Room #</b>	<b>Experiment</b>
Jan 29	102	Coulomb's Law
Feb 5	100	The Millikan-Fletcher Experiment
Feb 12	102	Equipotentials and Electric Fields
Feb 19	100	DC Electrical Measurements
Feb 26	101	Force Between Two Current-Carrying Wires
March 18	101	Magnetic Field Distribution of Solenoids
March 25	100	The Oscilloscope and its Use
April 1	101	Determination of the Ratio $e/m$ for the Electron
April 8	100	Capacitors and RC Circuits
April 15	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 another 15% of the final grade;
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** by contacting both the labs office at [ugradlabs@physics.miami.edu](mailto:ugradlabs@physics.miami.edu) and lab class instructors (regular and make up). There are no reading days for the labs, therefore no make ups can be performed past the last lab week.