

**PHY225 SYLLABUS – FALL semester, 2024.  
Room 102**

<b>Week</b>	<b>Date</b>	<b>Experiment Title</b>
1	Aug 26 to Aug 30	Equipotential and Electric Fields
	Sep 02 to Sep 06	<b>HOLIDAY (LABOR DAY)</b>
2	Sep 09 to Sep 13	The Millikan-Fletcher Experiment
3	Sep 16 to Sep 20	Force between Two Current-Carrying Wires
4	Sep 23 to Sep 27	DC Electrical Measurements
5	Sep 30 to Oct 04	Geometrical Optics
6	Oct 07 to Oct 11	Interference and Diffraction
	Oct 14 to Oct 18	<b>FALL RECESS</b>
7	Oct 21 to Oct 25	Determining the Refractive Index of Air
8	Oct 28 to Nov 01	The Oscilloscope and its Use
9	Nov 04 to Nov 08	Alternating Current Circuits
10	Nov 11 to Nov 15	Determination of the Ratio $e/m$ for the Electron

**IMPORTANT NOTES**

- Pre-Class Preparation:** You must review the text for each experiment before coming to class. The text can be found online in the Course Documents section on Blackboard.
- Lab Exams:** There will be four lab exams throughout the semester, each worth 5 points. Together, these exams total 20 points, which is 20% of your final grade. The remaining 80% of your grade will come from your lab work.
- Attendance Policy:** Attending the first two class sessions is crucial. Missing both will automatically result in being dropped from the course.
- Missed Labs and Makeups:** Missing one lab out of the ten scheduled labs will reduce the lab report portion of your final grade by 10%. Missing two lab exams will result in a failing grade. If you have an emergency, you must immediately contact both the lab instructor and the lab coordinator, Miguel Nieto, at [miguel.nieto@miami.edu](mailto:miguel.nieto@miami.edu) to arrange a makeup.