

Phys 171L Program – Fall 2013

(All sections)

<b>Week</b>	<b>Dates</b>	<b>Holiday(s)</b>	<b>Lecture</b>	<b>Lab</b>
1	8/26-30		Charge and E fields	Electroscope ( <i>new lab</i> )
2	9/2-6	M	Gauss's Law	Electric fields: qualitative
3	9/9-13		Electric potential	LoggerPro review (for new students)
4	9/16-20		Capacitance	Electric potentials: Path independence ( <i>new lab</i> )
5	9/23-27		Current, resistance	RC circuit
6	9/30-4		Circuits	Kirchhoff's Laws report (uses week 4 data) <i>Make-up week</i>
7	10/7-11		Magnetic fields	Magnetic field around a current
8	10/14-18		Magnetism	*Current balance ( <i>new lab</i> )
9	10/21-25		Inductance	Magnetic field of Earth
10	10/28-1		Maxwell's equations	<i>Make-up week</i>
11	11/4-8		Alternating current	RLC circuit
12	11/11-15	M	EM waves	<i>No lab</i>
13	11/18-22		Geometric optics	Geometric optics
14	11/25-29	RF	Interference	<i>No lab</i>
15	12/2-6		Diffraction	Microwaves: Diffraction and interference +speed of light <i>or</i> polarization
16	12/9-12		Review	<i>Make-up week</i>