

Physics 8B Syllabus, Fall 2015

Lecture 2, TTh 12:30-2pm, C. Bordel

<u>Week</u>	<u>Lectures</u>	<u>Topics</u>	<u>Reading</u>	<u>Labs</u>
1 *	8/25, 27	Introduction, Electric charge, Electric force	20	---
2	9/1, 3	Electric Field, Flux, Gauss's law	20-21	---
3	9/8, 10	Electric potential	22	---
4	9/15, 17	Capacitors, Electric potential energy	23	---
5	9/22, 24	Current, Resistance, DC circuits	24-25	---
6	9/29, 10/1	Magnetic force/field	26	DC circuits
7 ^I	10/6, 8	Electromagnetic induction	27	Midterm 1
8	10/13, 15	Inductors, inductance, Electromagnetic waves	27, 29	Magnetic field
9	10/20, 22	Reflection, refraction	30	Motors & generators
10	10/27, 29	Mirrors, lenses	31	Properties of light
11	11/3, 5	Optical instruments	31	Mirrors, lenses, opt. instr.
12 ^{II}	11/10, 12	Interference, diffraction	32	Midterm 2
13	11/17, 19	Diffraction limit, Particles & Waves	32, 34	Diffraction
14 *	11/24, 26	Quantum mechanics	35	---
15	12/1, 3	Atomic physics, Radioactivity	36, 38	Atomic spectra
16	12/7-11	<i>Reading/Review/Recitation Week</i>	---	---
17	12/18	Final examination	---	---

*week 1 starts on Aug. 26th ; Thanksgiving break (11/25-27).

^IMidterm 1: Thursday, Oct. 8 , 7-9pm

^{II}Midterm 2: Thursday, Nov. 12, 7-9pm

Final Exam: Friday, Dec. 18, 8-11am (group 17)

Please check on bCourses for any updates or further information.