

Physics 7B Syllabus, Spring 2014

Lecture 2, C. Bordel

<u>Week</u>	<u>Lectures</u>	<u>Topics</u>	<u>Reading</u>	<u>Labs</u>
1	Jan. 21, 23	Thermal expansion, ideal gas law, kinetic theory	17.4, 17.7-9, 18.1-2	---
2	Jan. 28, 30	Phase changes, heat, internal energy, specific heat, calorimetry, latent heat, work, first law, equipartition	18.3-4 (evaporation only), 19.1-9	---
3	Feb. 4, 6	Heat conduction, heat engines, entropy, second law	19.10 (conduction only), 20.1-3, 20.5-6	---
4	Feb. 11, 13	Electric charge, force, field	21.1-10	Heat engine
5	Feb. 18, 20	Electric dipole, flux, Gauss's law	21.11, 22.1-2	---
6 ^I	Feb. 25, 27	Applications of Gauss's law, electric potential	22.3, 23.2	<i>Midterm 1</i>
7	Mar. 4, 6	Electric Potential	23.3-8	---
8	Mar. 11, 13	Capacitors	24.1-6	Equipot. lines & E. field
9	Mar. 18, 20	Current, resistors, DC circuits	25.1-5, 25.8, 26.1-5	---
	<i>Mar. 24-28</i>	<i>Spring Break</i>	---	---
10	Apr. 1, 3	Magnetic force, magnetic dipole, Hall effect	27.1-8	DC circuits
11 ^{II}	Apr. 8, 10	Ampère's law and applications	28.1-5	<i>Midterm 2</i>
12	Apr. 15, 17	Biot-Savart law and applications	28.6-7	e/M
13	Apr. 22, 24	Electromagnetic induction	29.1-4	---
14	Apr. 29, May 1	Inductance, LR and LC circuits	30.1-5, 25.7, 29.6	O-scope & time dep.
15	<i>May 5-9</i>	<i>Reading/Review/Recitation Week</i>	<i>No new material</i>	---
16	<i>May 12</i>	<i>Final examination</i>	---	---

^IMidterm I: Tuesday, 2/25, 7-9pm

^{II}Midterm II: Tuesday, 4/8, 7-9pm

Final Exam: Monday, 5/12, 11:30am-2:30pm

Please check on bspace for any updates or further information.