Course Syllabus

Jump to Today

Physics 7B Syllabus, Spring 2020

Lecture 2, Tu, Th 2-3:30pm

Week	Topics	Reading	Labs
1	Thermal expansion, ideal gas law, kinetic theory	17.4, 17.7-9,18.1-2	*No Lab*
2	Phase changes, heat, internal energy, specific heat, calorimetry, latent heat, work, first law, equipartition	18.3-4, 19.1-9	*No Lab*
3	Heat conduction, Heat Engines, Entropy, Second law	19.10, 20.1-3, 20.5-6	*No Lab*
4	Electric charge, Force, Field	21.1-10	Heat engine
5	Electric dipole, Flux, Gauss's law	21.11, 22.1-2	*No Lab*
6	Applications of Gauss's law	22.3	*Midterm 1*
7	Electric Potential	23.2-8	*No Lab*
8	Capacitors	24.1-6	Equipot. lines & E. field
9	Current, Resistors, DC circuits	25.1-5, 25.8, 26.1-5	*No Lab*
---	*Spring break*	---	---
10	Magnetic force, Magnetic dipole, Hall effect	27.1-8	DC circuits

11	Ampère's law and applications	28.1-5	*Midterm 2*
12	Biot-Savart law and applications	28.6-7	*No Lab*
13	Electromagnetic induction	29.1-4	e/M
14	Inductance, LR and LC circuits	30.1-5, 25.7, 29.6	O-scope & time dep.
May 4	*Reading/Review/Recitation Week*		---

Tuesday, Feb. 25, in KROE 160, VLSB2060, NGAT105, 7-9 PM (2 hr exam)

Tuesday, Apr. 7, in 1, 3 & 4 LeConte, 7-9 pm (2 hr exam)

Monday, May 11, room TBA, 11:30 am -2:30 pm (3 hr exam)

Please check on bCourses for any updates or complements of information.

Course Summary:

Date	Details