

Homework is due by noon
on the day specified

Physics 102 Lecture Schedule

Day	Date	Topic	Reading	Homework Due (Problems)
W	1/15	Temperature and Thermal Expansion	17:1,2,3,4	
F	1/17	Ideal Gas Law	17:6,7	<i>NOTE: HW due on 1/24!</i>
M	1/20	Ideal Gas Law, Kinetic Theory	17:7,8,9 18:1	
W	1/22	Phase Changes	18:3,4	
F	1/24	Heat and Internal Energy	19:1,2,3,4	Homework #1 17:2,10,26,39,40,47 18:4,7,18,20,21
M	1/27	1st Law of Thermodynamics	19:5,6,7	
W	1/29	Heat-Energy Cycles, Heat Transfer, Conduction	19:7,8,9,10 (through p. 505)	
F	1/31	2 nd Law of Thermo. and Engines	20:1,2,3,4	Homework #2 19:6,11,19,26,31,32,38,59,103
M	2/3	Engines and Entropy	20:1,2,3,4,5	
W	2/5	Entropy	20:5,6,7,8	
F	2/7	Test #1: Thermodynamics (Chapters 17,18,19,20)		Homework #3 20:6,9,13,26,29,34,47
M	2/10	Electric Charge and Fields	21:1,2,3,4	
W	2/12	Coulomb's Force Law	21:5,6,7,8,9,10,11	
F	2/14	Gauss' Law	22:1,2,3,4	Homework #4
M	2/17	Gauss' Law	22:1,2,3,4	
W	2/19	Gauss' Law and Electric Potential	23:1,2,3,4	
F	2/21	Electric Potential and Capacitors	23:5,6,7,8,9	Homework #5
M	2/24	Capacitors	24:1,2,3,4	
W	2/26	Current and Resistors	25:1,2,3,4,5,6,10	
F	2/28	DC Circuits	26:1,2,3	Homework #6
M-F	3/3-7	SPRING BREAK		
M	3/10	DC Circuits (Kirchoff's Rules)	26:3,4	
W	3/12	DC Circuits	26:3,4	
F	3/14	Test #2: Electricity (Chapters 21,22,23,24,25,26)		Homework #7
M	3/17	Magnetic Fields and Forces	27:1,2,3,4,5,6 28:7	
W	3/19	Magnetic Fields due to Currents	28:1,2,3,4	
F	3/21	Ampere's and Biot-Savart Law	28:5,6	Homework #8
M	3/24	EMF and Faraday's and Lenz's Law	29:1,2	
W	3/26	EMF and Generators	29:7 29:3,4,6,7	
F	3/28	Inductance and Magnetic Energy	30:1,2,3	Homework #9
M	3/31	LCR Circuits	30:4,5,6	
W	4/2	AC Circuits	31:1,2,3,4	
F	4/4	LCR Circuits with AC Current	31:5,6	Homework #10
M	4/7	Maxwell's Equations	32:1,2,3	
W	4/9	Electromagnetic Radiation	32:4,5,6	
F	4/11	Test #3: Electricity and Magnetism (Chapters 27,28,29,30,31,32)		Homework #11
M	4/14	Light: Reflection	33:1,2,3,4	
W	4/16	Light: Refraction	33:5,6,7	
F	4/18	Lenses	34:1,2,3,4,6	Homework #12
M	4/21	Interference	35: 1,2,3,4,6	
W	4/23	Diffraction, Polarization	36: 1,4,5,7,8,11,12	
F	4/25	"Modern" Physics	no reading	Homework #13
Tues	4/29	FINAL EXAM		