

Schedule

Class	Subject	Reading	Homework Problems (due at 11:45 am on Mondays)	Discussion
<i>Mon</i> Jan 7	Electricity, charges, Coulomb's law	23.1-23.4		
<i>Tue</i> Jan 8				Ch. 23
<i>Wed</i> Jan 9	Electric field	23.6-23.7		
<i>Thu</i> Jan 10				Ch. 23
<i>Mon</i> Jan 14	Flux of electric field, Gauss's law	24.1-24.4	#1 Ch. 23: 17,19,31,63,71,79	
<i>Tue</i> Jan 15				Ch. 24
<i>Wed</i> Jan 16	Gauss's law applications, Electric potential	25.1-25.3		
<i>Thu</i> Jan 17				Ch. 25
<i>Tue</i> Jan 22			#2 Ch. 24: 5,13,34,63 Ch. 25: 1,12,23,67	Ch. 25
<i>Wed</i> Jan 23	Electric potential	25.4-25.8		

<i>Thu</i> Jan 24				Ch. 25
<i>Mon</i> Jan 28	<i>Review</i>		#3 Ch. 23: 72,89 Ch. 24: 53,59 Ch. 25: 44,47,59	
<i>Tue</i> Jan 29				Ch. 23 Ch. 24 Ch. 25
<i>Wed</i> Jan 30	<i>Midterm test 1</i>			
<i>Thu</i> Jan 31				Ch. 24 Ch. 25
<i>Mon</i> Feb 4	Capacitors, energy of capacitors	26.1-26.4		
<i>Tue</i> Feb 5				Ch. 26
<i>Wed</i> Feb 6	Dielectrics, dielectric constant	26.5-26.7		
<i>Thu</i> Feb 7				Ch. 26
<i>Mon</i> Feb 11	Ohm's law, resistance, power	27.1-27.6	#4 Ch. 26: 2,19,25,31, 34, 47,63,75	

<i>Tue</i> Feb 12				Ch. 27
<i>Wed</i> Feb 13	EMF, internal resistance, resistors in series and parallel	28.1-28.2		
<i>Thu</i> Feb 14				Ch. 27 Ch. 28
<i>Tue</i> Feb 19			#5 Ch. 27: 10,17,38 Ch. 28: 3,4,7,11,19	Ch. 28
<i>Wed</i> Feb 20	Kirchhoff's laws, RC circuits	28.3-4		
<i>Thu</i> Feb 21				Ch. 28
<i>Mon</i> Feb 25	<i>Review</i>		#6 Ch. 26: 69,75 Ch. 27: 68 Ch. 28: 23,24,29,30,41	
<i>Tue</i> Feb 26				Ch. 28
<i>Wed</i> Feb 27	<i>Midterm test 2</i>			
<i>Thu</i> Feb 28				Ch. 28:

<i>Mon</i> Mar 4	Magnetic field, forces on moving charge and currents	29.1-29.6		
<i>Tue</i> Mar 5				Ch. 29:
<i>Wed</i> Mar 6	The Biot-Savart law, Ampere's law, magnetic materials	30.1-30.6		
<i>Thu</i> Mar 7				Ch. 30
<i>SPRING BREAK</i>				
<i>Mon</i> Mar 18	Motional EMF, Faraday's law, Lenz's law	31.1-31.4	#7 Ch. 29: 10,25,40,46 Ch. 30: 7,48,64,71	
<i>Tue</i> Mar 19				Ch. 31
<i>Wed</i> Mar 20	Eddy currents, generators and motors	31.5-31.6		
<i>Thu</i> Mar 21				Ch. 31
<i>Mon</i> Mar 25	Inductance, RL, LC, and LRC circuits	32.1-32.6	#8 Ch. 31: 3,12,25,34,37,43,66,79	

<i>Tue</i> Mar 26				Ch. 32
<i>Wed</i> Mar 27	Reactance, phasors, resonances, power	33.1-33.8		
<i>Thu</i> Mar 28				Ch. 33
<i>Mon</i> Apr 1	<i>Review</i>		#9 Ch. 32: 5,17,25,39 Ch. 33: 12,23,44,71	
<i>Tue</i> Apr 2				Ch. 30 Ch. 31 Ch. 33
<i>Wed</i> Apr 3	<i>Midterm test 3</i>			Ch. 29
<i>Thu</i> Apr 4				Ch. 32 Ch. 33
<i>Mon</i> Apr 8	Displacement current and Maxwell's equations, Electromagnetic waves	34.1-34.5		
<i>Tue</i> Apr 9				Ch. 34
<i>Wed</i>	Ray optics, Huygens	35.1-35.8		

Apr 10	principle, reflection and refraction, total internal reflection, dispersion			
<i>Thu</i> Apr 11				Ch. 35
<i>Mon</i> Apr 15	Imaging by mirrors and lenses	36.1-36.4	#10 Ch. 34: 8,21,22,28 Ch. 35: 5,15,74,83	
<i>Tue</i> Apr 16				Ch. 36
<i>Wed</i> Apr 17	Combinations of lenses, magnification, Optical devices	36.5-36.10		
<i>Thu</i> Apr 18				Ch. 36
<i>Mon</i> Apr 22	Interference, Diffraction	37.1-37.5 38.1-38.5	#11 Ch. 36: 4,5,20,24,31,42,77,94	
<i>Tue</i> Apr 16				Ch. 37