

PHYS-272 SPRING 2011---MORSE---DETAILED COURSE OUTLINE---version 1.2 (12/26/10)

<i>week</i>	<i>day</i>	<i>2010 Date</i>	<i>Lec #</i>	<i>Reading due</i>	<i>Lecture</i>	<i>Mastering Physics problem set assigned</i>	<i>HW due</i>
1	Tues	Jan 11	# 1	21.1-3	Charges, conductors, Coulombs Law	#1: Ch 21: Electric Charge & Field	
	Thurs	Jan 13	# 2	21.4-7	Electric Fields		
2	Tues	Jan 18	# 3	22.1-2	Electric Flux	#2: Ch 22: Gauss' law	#1
	Thurs	Jan 20	# 4	22.3-5	Gauss' Law		
3	Tues	Jan 25	# 5	23.1-2	Electric Potential Energy	#3: Ch 23: Electric Potential	#2
	Thurs	Jan 27	# 6	23.3-5	Electric Potential		
4	Tues	Feb 01	# 7	24.1-4	Capacitance - Dielectrics	#4 Ch 24: Capacitance, Ch 25: Current	#3
	Thurs	Feb 03	# 8	25.1-3	Current - Resistance		
5**	Tues	Feb 08	# 9	25.4-6	Power - Energy	#5: Ch 25: Currents, Resistance	#4
	Thurs	Feb 10			Exam I (in class) Lectures 1-7		
6	Tues	Feb 15	# 10	26.1-2	DC Circuits	#6 Ch 26: DC circuits, Kirchoff Rules	#5
	Thurs	Feb 17	# 11	26.3-5	Kirchoff's Circuit Rules		
7	Tues	Feb 22	# 12	27.1-4	Magnetic Fields	#7 Ch 27: Magnetic Fields & Forces	#6
	Thurs	Feb 24	# 13	27.5-7	Magnetic Forces		
8	Tues	Mar 01	# 14	28.1-5	Sources of Magnetic Fields	#8 Ch 28: Sources of Magnetic Fields	#7
	Thurs	Mar 03	# 15	28.6-7	Ampere's law applications		
9**	Tues	Mar 08	# 16	29.1-3	Electromagnetic Induction	#9 Ch 29: Electromagnetic Induction	#8
	Thurs	Mar 10			Exam II (in class) Lectures 8-14		
10	Tues	Mar 15	# 17	29.4-7	Maxwell's equations	#10 Ch 29: Maxwell, Ch 30: Inductance	#9
	Thurs	Mar 17	# 18	30.1-6	Inductance - Inductors		
	Tues	Mar 22			Spring Break Mar 21-25		
	Thurs	Mar 24					
11	Tues	Mar 29	# 19	31.1-3	AC circuits - reactance	#11 Ch 31, AC Circuits - Reactance	#10
	Thurs	Mar 31	# 20	31.4-6	AC power and resonance		
12	Tues	Apr 05	# 21	32.1-6	Electromagnetic Waves	#12 Ch 32: Electromagnetic Waves	#11
	Thurs	Apr 07			Exam III (inclass) Lectures 15-20		
13	Tues	Apr 12	# 22	33.1-4	Light: reflection - refraction	#13 Ch 33: Light: Reflection, Refraction, Polarization	#12
	Thurs	Apr 14	# 23	33.5-7	Light : polarization		
14	Tues	Apr 19	# 24	34.1-3	Geometric Optics - Mirrors	#14 Ch 34 Geometric Optics: mirrors and lenses	#13
	Thurs	Apr 21	# 25	34.4-8	Lenses - Optical instruments		
15	Tues	Apr 26	# 26	35.1-3	Interference	#15 Ch 35: Interference; Ch36: Diffraction	#14
	Thurs	Apr 28	#27	35.4-5; 36.1-3	Interference/Diffraction		
16	Tues	May 03	#28	36.4-7	Diffraction	#16 Ch 36: Light -- Diffraction	#15
17	Thurs	May 12			Final Exam (in class) 9:45--11:45	66% Ch-32-36, Lec 21-26; 33% Ch-21-31 Lec 1-20	#16
*					*Only one lecture this week		
**					**Exam Week --Exam on Thursday		