

PHYS-272 FALL 2010---MORSE---DETAILED COURSE OUTLINE---version 1.6 (11/29/10)

<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	Aug 24	# 1	21.1-3	Charges, conductors, Coulombs Law	#1: Ch 21: Electric Charge & Field	
	Thurs	Aug 26	# 2	21.4-7	Electric Fields		
2	Tues	Aug 31	# 3	22.1-2	Electric Flux	#2: Ch 22: Gauss' law	#1
	Thurs	Sep 02	# 4	22.3-5	Gauss' Law		
3	Tues	Sep 07	# 5	23.1-2	Electric Potential Energy	#3: Ch 23: Electric Potential	#2
	Thurs	Sep 09	# 6	23.3-5	Electric Potential		
4	Tues	Sep 14	# 7	24.1-4	Capacitance - Dielectrics	#4 Ch 24: Capacitance, Ch 25: Current	#3
	Thurs	Sep 16	# 8	25.1-3	Current - Resistance		
5**	Tues	Sep 21	# 9	25.4-6	Power - Energy	#5: Ch 25: Currents, Resistance	#4
	Thurs	Sep 23			Exam I (in class) Lectures 1-7		
6	Tues	Sep 28	# 10	26.1-2	DC Circuits	#6 Ch 26: DC circuits, Kirchoff Rules	#5
	Thurs	Sep 30	# 11	26.3-5	Kirchoff's Circuit Rules		
7	Tues	Oct 05	# 12	27.1-4	Magnetic Fields	#7 Ch 27: Magnetic Fields & Forces	#6
	Thurs	Oct 07	# 13	27.5-7	Magnetic Forces		
8	Tues	Oct 12	# 14	28.1-5	Sources of Magnetic Fields	#8 Ch 28: Sources of Magnetic Fields	#7
	Thurs	Oct 14	# 15	28.6-7	Ampere's law applications		
9**	Tues	Oct 19	# 16	29.1-3	Electromagnetic Induction	#9 Ch 29: Electromagnetic Induction	#8
	Thurs	Oct 21			Exam II (in class) Lectures 8-14		
10	Tues	Oct 26	# 17	29.4-7	Maxwell's equations	#10 Ch 29: Maxwell, Ch 30: Inductance	#9
	Thurs	Oct 28	# 18	30.1-6	Inductance - Inductors		
11*	Tues	Nov 02			HOLIDAY: Election Day	#11 Ch 31, AC Circuits - Reactance	#10
	Thurs	Nov 04	# 19	31.1-3	AC circuits - reactance		
12*	Tues	Nov 09	# 20	31.4-6	AC power and resonance	#12 Ch 31: AC Power -Resonance	#11
	Thurs	Nov 11			HOLIDAY: Veterans' Day		
13**	Tues	Nov 16	# 21	32.1-6	Electromagnetic Waves	#13 Ch 32: Electromagnetic Waves	#12
	Thurs	Nov 18			Exam III (inclass) Lectures 15-20		
14*	Tues	Nov 23	# 22	33.1-7	Light: reflection - refraction	#14 Ch 33: Light, Reflection & Refraction	#13
	Thurs	Nov 25			HOLIDAY: Thanksgiving		
15	Tues	Nov 30	# 23	34.1-3	Geometric Optics - Mirrors	#15 Ch 34: Geometric Optics	#14
	Thurs	Dec 02	# 24	34.4-8	Lenses - Optical instruments		
16	Tues	Dec 07	# 25	35.1-5	Interference	#16 Ch 35: Interference, Ch 36: Diffraction	#15
	Thurs	Dec 09	# 26	36.1-7	Diffraction		
17	Tues	Dec 14			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		