

# Course Guide Physics 232: Fall 2014:

Date	Day	Topic	Chapter	My Notes (written when we were using different text) The topics in the pdf and the day don't quite match, but approximately, this is the flow...)	Recommended Homework	Event
M: 8-18	1	Charge, Coulomb's Law	21	<a href="http://www.supermath.info/EandMnotes1to14charge.pdf">http://www.supermath.info/EandMnotes1to14charge.pdf</a>	4, 15, 63, 76	
W: 8-20	2	Electric Fields	21	<a href="http://www.supermath.info/EandMnotes15to28eFields.pdf">http://www.supermath.info/EandMnotes15to28eFields.pdf</a>	27, 30, 32, 73	
F: 8-22	3	Electric Fields	21	<a href="http://www.supermath.info/ElectricFieldsfromPtCharges.pdf">http://www.supermath.info/ElectricFieldsfromPtCharges.pdf</a>	57, 89, 90	(no lab)
M: 8-25	4	Electric Fields	21		74, 98, 99	
W: 8-27	5	Flux and Gauss's Law	22	<a href="http://www.supermath.info/EandMnotes29to35GaussLaw.pdf">http://www.supermath.info/EandMnotes29to35GaussLaw.pdf</a>	3, 5, 6, 36	Quiz 1
F: 8-29	6	Flux and Gauss's Law	22		8, 17, 19, 21	(no lab)
M: 9-1	7	Flux and Gauss's Law	22		30, 32, 40, 43	
W: 9-3	8	Flux and Gauss's Law	22		46, 53, 58	Quiz 2
F: 9-5	9	Electric Potential	23	<a href="http://www.supermath.info/EandMnotes36to53potential.pdf">http://www.supermath.info/EandMnotes36to53potential.pdf</a>	2, 4, 10	Lab 1*
M: 9-8	10	Electric Potential	23		15, 23, 28, 62	
W: 9-10	11	Electric Potential	23		29, 31, 38, 45	Quiz 3
F: 9-12	12	Electric Potential	23		54, 63, 79	Lab 2*
M: 9-15	13	Capacitance	24	<a href="http://www.supermath.info/EandMnotes54to66capacitance.pdf">http://www.supermath.info/EandMnotes54to66capacitance.pdf</a>	1, 10, 39, 72	
W: 9-17	14	Capacitance	24		16, 18, 26, 53	Quiz 4
F: 9-19	15	Electric Circuits	25	<a href="http://www.supermath.info/EandMnotes67to77circuits.pdf">http://www.supermath.info/EandMnotes67to77circuits.pdf</a>	10, 12, 74	
9-19	***	Test 1 in your Lab Period	***	Covers Chapters 21,22 & 23, allowed 3"x5" card.		
M: 9-22	16	Electric Circuits	25		33, 72, 79	
W: 9-24	17	Direct Current Circuits	26		2, 5, 8, 16, 60	Quiz 5
F: 9-26	18	Direct Current Circuits	26		26, 64, 70	Lab 3*
M: 9-29	19	Direct Current Circuits	26		45, 48, 49, 76	
W: 10-1	20	Magnetic Field & Forces	27	<a href="http://www.supermath.info/EandMnotes82to91bFields.pdf">http://www.supermath.info/EandMnotes82to91bFields.pdf</a>	4, 7, 62	Quiz 6
F: 10-3	21	Magnetic Field & Forces	27		10, 15, 27	Lab 4*
M: 10-6	22	Magnetic Field & Forces	27		28, 36, 70	
W: 10-8	23	Magnetic Field & Forces	27		47, 78, 85	Quiz 7
Fall Break		no class 10-9 & 10-10				
M: 10-13	24	Sources of Magnetic Field	28	<a href="http://www.supermath.info/EandMnotes92to96AmperesLaw.pdf">http://www.supermath.info/EandMnotes92to96AmperesLaw.pdf</a>	8, 16, 23	
W: 10-15	25	Sources of Magnetic Field	28		28, 31, 36	Quiz 8
F: 10-17	26	Sources of Magnetic Field	28		44, 45, 52	Lab 5*
10-17	***	Test 2 in your Lab Period	***	Covers Chapters 24, 25, 26 & 27, allowed 3"x5" card.		
M: 10-20	27	Sources of Magnetic Field	28		61, 68, 71	
W: 10-22	28	Sources of Magnetic Field	28		74, 77, 80	Quiz 9
F: 10-24	29	Induction	29	<a href="http://www.supermath.info/EandMnotes97to105FaradaysLaw.pdf">http://www.supermath.info/EandMnotes97to105FaradaysLaw.pdf</a>	2, 6, 7, 14	Lab 6*
M: 10-27	30	Induction	29		8, 9, 16, 18	

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W: 10-29	31	Induction	29		21, 22, 23	Quiz 10
F: 10-31	32	Induction	29		28, 36, 65, 69	Lab 7*
M: 11-3	33	Induction	29		3, 10, 16, 25	
W: 11-5	34	Inductance	30	<a href="http://www.supermath.info/EandMnotes106to113inductance.pdf">http://www.supermath.info/EandMnotes106to113inductance.pdf</a>	36, 45, 48, 53	Quiz 11
F: 11-7	35	RLC circuits	31	<a href="http://www.supermath.info/EandMnotes78to81rcCircuits.pdf">http://www.supermath.info/EandMnotes78to81rcCircuits.pdf</a>	39, 43, 47	Lab 8*
M: 11-10	36	RLC circuits	31		53, 61, 75	
W: 11-12	37	Electromagnetic Waves	32	<a href="http://www.supermath.info/EandMnotes114to118light.pdf">http://www.supermath.info/EandMnotes114to118light.pdf</a>	1, 8, 9, 25, 46	Quiz 12
F: 11-14	38	Interference	35	<a href="http://www.supermath.info/EandMnotes119to122optics.pdf">http://www.supermath.info/EandMnotes119to122optics.pdf</a>	1, 11, 20, 46	Lab 9*
M: 11-17	39	Interference	35		25, 30, 31	
W: 11-19	40	Nuclear in a nutshell		<a href="http://www.supermath.info/EandMnotes123to128nuclear.pdf">http://www.supermath.info/EandMnotes123to128nuclear.pdf</a>		Quiz 13
F: 11-21	41	Decoupling		As in, "levels, I'm going to put in levels".		
11-21	***	Test 3 in your Lab Period	***	From Chapters 28, 29, 30, 31, 32 & 35, allowed 3"x5" card.		
		Thanksgiving Break		no class 11-24 to 11-28		
M:12-1	42	Particle Physics **	44		1, 27	
W: 12-3	43	Current State of Physics	n/a		(no homework)	
		Final Exam		Friday, Dec. 5, 1-3pm.		comprehensive

- \*the numbering of the labs on this planner does not match your lab text. There will be a separate lab schedule posted in Blackboard. Please consult that in order to prepare for lab.
- \*\* you don't need to read the whole thing. My lecture on 12-2 will be differently focused. I'm hoping you can solve the assigned problems with just a little scanning of the Chapter.
- I will allow a 3x5 inch card for each Test and you may bring four 3x5 cards to the final.
- I expect you study for this course regularly. Your continual attention to homework is just one aspect of your study. That is merely the starting point. I have not required an abundance of homework, you may need to work additional easy problems to properly understand.
- The homework will not be collected this semester. However, the Quizzes may at times be directly taken from the homework and the Quizzes are open book, open notes, open work you have already completed. The Quizzes are not open internet and friends. Whatever social component you find helpful for homework must be completed before the quiz time. On occasion, I may give a take-home quiz which is due the next class period. I keep the top 10 quiz grades. The lowest three are dropped. (Quizzes not dropped are worth 15pts towards your grade)
- Grading: usual 1000pts scale with:  
 Test 1 = 150pts, Test 2 = 150pts, Test 3 = 150pts, Quizzes = 150pts, Lab Grade = 100pts, Final = 300pts.