

# Course Guide Physics 232: Fall 2024: DH 4464, M-W-F 2:10-3:00 PM

Date	Day	Topic	Ch.	My Old Notes (written when we were using different text)	Assignment
M: 8-19	1	Charge, Coulomb's Law	21	<a href="http://www.supermath.info/EandMnotes1to14charge.pdf">http://www.supermath.info/EandMnotes1to14charge.pdf</a>	
W: 8-21	2	Electric Fields	21	<a href="http://www.supermath.info/EandMnotes15to28eFields.pdf">http://www.supermath.info/EandMnotes15to28eFields.pdf</a>	
F: 8-23	3	Electric Fields	21	<a href="http://www.supermath.info/ElectricFieldsfromPtCharges.pdf">http://www.supermath.info/ElectricFieldsfromPtCharges.pdf</a>	
M: 8-26	4	Electric Fields	21		
W: 8-28	5	Flux and Gauss's Law	22	<a href="http://www.supermath.info/EandMnotes29to35GaussLaw.pdf">http://www.supermath.info/EandMnotes29to35GaussLaw.pdf</a>	Mission 1 due (30pts)
F: 8-30	6	Flux and Gauss's Law	22		
M: 9-2	7	Flux and Gauss's Law	22		
W: 9-4	8	Flux and Gauss's Law	22		
F: 9-6	9	Flux and Gauss's Law	22		
M: 9-9	10	Questions for Test 1			Mission 2 due (30pts)
W: 9-11	11	Test 1 (Chapters 21 and 22)			
F: 9-13	12	Electric Potential	23	<a href="http://www.supermath.info/EandMnotes36to53potential.pdf">http://www.supermath.info/EandMnotes36to53potential.pdf</a>	
M: 9-16	13	Electric Potential	23		
W: 9-18	14	Electric Potential	23		
F: 9-20	15	Electric Potential	23		
M: 9-23	16	Electric Potential	23		
W: 9-25	17	Capacitance	24	<a href="http://www.supermath.info/EandMnotes54to66capacitance.pdf">http://www.supermath.info/EandMnotes54to66capacitance.pdf</a>	
F: 9-27	18	Capacitance	24		
M: 9-30	19	Electric Circuits	25	<a href="http://www.supermath.info/EandMnotes67to77circuits.pdf">http://www.supermath.info/EandMnotes67to77circuits.pdf</a>	Mission 3 due (45pts)
W: 10-2	20	Direct Current Circuits	26		
F: 10-4	21	Direct Current Circuits	26		
M: 10-7	22	RC-circuits	26	<a href="http://www.supermath.info/EandMnotes78to81rcCircuits.pdf">http://www.supermath.info/EandMnotes78to81rcCircuits.pdf</a>	
W: 10-9	23	Further examples			
Fall Break		no class 10-10 & 10-11			
M: 10-14	24	Questions for Test 2			Mission 4 due (30pts)
W: 10-16	25	Test 2 (Chapters 23-26)			
F: 10-18	26	Magnetic Field & Forces	27	<a href="http://www.supermath.info/EandMnotes82to91bFields.pdf">http://www.supermath.info/EandMnotes82to91bFields.pdf</a>	
M: 10-21	27	Magnetic Field & Forces	27		
W: 10-23	28	Sources of Magnetic Field	28	<a href="http://www.supermath.info/EandMnotes92to96AmperesLaw.pdf">http://www.supermath.info/EandMnotes92to96AmperesLaw.pdf</a>	
F: 10-25	29	Sources of Magnetic Field	28		
M: 10-28	30	Sources of Magnetic Field	28		
W: 10-30	31	Induction	29	<a href="http://www.supermath.info/EandMnotes97to105FaradaysLaw.pdf">http://www.supermath.info/EandMnotes97to105FaradaysLaw.pdf</a>	Mission 5 due (25pts)
F: 11-1	32	Induction	29		

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M: 11-4	33	Induction	29		
W: 11-6	34	Inductance	30	<a href="http://www.supermath.info/EandMnotes106to113inductance.pdf">http://www.supermath.info/EandMnotes106to113inductance.pdf</a>	
F: 11-8	34	Inductance	30		
M: 11-11	35	Inductance	30		
W: 11-13	36	RLC circuits	31		
F: 11-15	36	Electromagnetic Waves	32	<a href="http://www.supermath.info/EandMnotes1=14to118light.pdf">http://www.supermath.info/EandMnotes1=14to118light.pdf</a>	
M: 11-18	37	Questions for Test 3			Mission 6 due (45pts)
W: 11-20	38	Test 3 (Chapters 27-32)			
F: 11-22	40	Interference	35	<a href="http://www.supermath.info/EandMnotes119to122optics.pdf">http://www.supermath.info/EandMnotes119to122optics.pdf</a>	
		Thanksgiving Break		no class 11-25 to 11-29	
M:12-2		Special Relativity & Maxell's Eqns	n/a	As in, "levels, I'm going to put in levels".	
W: 12-4		Supersymmetry	n/a		
F: 12-6		Current Physics	n/a		
		Final Exam			

1. You must be enrolled in a lab section, your lab instructor is in charge of the schedule and operation of the lab.
2. I will allow a 3x5 inch card for each Test and you may bring four 3x5 cards to the final.
3. I've written a number of Missions (required homework you complete on paper and turn in when it is due, the Missions are team work so there are no extensions possible, in particular each team will consist of 2 or 3 students. If a team fails to turn in the Mission at the start of class when the Mission is due then the score on the next test is used to assign a grade of the mission)
4. Participation means coming to most classes and using the time wisely. Easy way to make participation grade zero include such activities as texting in class habitually, not taking notes and not paying attention, sleeping a lot, watching sports of any kind on your phone, playing video games on your laptop, doing homework for any class on your laptop during class, admitting a love for Taylor Swift's "music" publicly etc. Also, this grade may include attendance quizzes (unannounced) typically given at the start of class or in the midst of class to gauge understanding of a particular topic.
5. Grading: usual 1000pts scale with:  
Test 1 = 120pts, Test 2 = 120pts, Test 3 = 120pts, Missions = 205pts, Lab Grade = 125pts, Final = 240pts, Participation = 70pts.
6. Office Hours:

M-W-F: 9:05-10:30 AM & M - F: 12:00-2:00 PM ( By appointment, there will be a sign-up sheet outside my door )

Also, special to this class: **Physics 232 Problem Session 4:15-6:00 PM on Friday in DH 4424.**

**( this is not a required meeting, but I intend to record it and post it for your reference)**