

PHYS 4392 SCHEDULE

Spring 2018 Dr. Dalley

Introduction to Electrodynamics (4e) by D. J. Griffiths

	TOPIC	Pre-Class Prep	HW due
1/23/2018	Introduction & Vector Algebra	Read "Advertisement"	
1/25/2018	Differential Vector Calculus	Read 1.2 Do 1.20	
1/30/2018	Integral Vector Calculus	Read 1.3 Do 1.32	1.4, 1.7, 1.25
2/1/2018	Curvilinear Coords, Dirac Delta, Field Theorems	Read 1.4-6 Do 1.39(a)	
2/6/2018	Electrostatic Field	Read 2.1-2 Do 2.2	1.33, 1.43
2/8/2018	Electrostatic Potential & Energy	Read 2.3-4 Do 2.21	
2/13/2018	Conductors	Read 2.5 Do 2.39	2.7, 2.27
2/15/2018	<i>Review of 1.1 – 2.5</i>	make a suggestion	
2/20/2018	<i>Test 1</i>	1.1 – 2.5	
2/22/2018	Laplace's Equation & Method of Images	Read 3.1-3.2 Do 3.7	
2/27/2018	Separation of Variables	Read 3.3 Do 3.13	3.3, 3.9
3/1/2018	Electrostatic Multipole Expansion	Read 3.4 Do 3.36	
3/6/2018	Electric Polarization	Read 4.1-2 Do 4.7	3.18, 3.28
3/8/2018	Electric Displacement and Linear Dielectrics	Read 4.3 – 4.4.1 Do 4.17	
	<i>SPRING BREAK</i>		
3/20/2018	More on Dielectrics	Read 4.4.2 – 4.4.4. Do 4.27	4.18, 4.21
3/22/2018	<i>Review of 3.1 - 4.4</i>	make a suggestion	
3/27/2018	<i>Test 2</i>	3.1 - 4.4	
3/29/2018	Lorentz Force	Read 5.1 Do 5.3	
4/3/2018	Biot-Savart Law & Div/Curl of B	Read 5.2 - 5.3.2 Do 5.8(a)	
4/5/2018	Ampere's Law & Maxwell's Static Equations	Read 5.3.3 – 5.3.4 Do 5.19	
4/10/2018	Magnetic Vector Potential	Read 5.4 Do 5.24	5.11, 5.15
4/12/2018	Magnetization	Read 6.1 – 6.2 Do 6.3(b)	
4/17/2018	H Field	Read 6.3-6.4 Do 6.21(a)	5.23, 6.8

4/19/2018	<i>Review of 5.1 – 6.4</i>	make a suggestion	
4/24/2018	<i>Test 3</i>	5.1 – 6.4	
4/26/2018	Electromotive Force	Read 7.1 Do 7.4	
5/1/2018	Magnetic Induction	Read 7.2 Do 7.32(a) & 7.24	
5/3/2018	Maxwell's Equations	Read 7.3 Do 7.34	
5/7/2018	<i>No class but last HW due (slip under door 207 FOOSC)</i>		7.16, 7.20
5/15/2018	<i>Final Exam 11:30-2:30</i>	Chaps 1 – 7	