

TENTATIVE SCHEDULE FOR PHYSICS 313, FALL 2026, Prof. Anlage					
Date	Mtg.#	Griffiths 5th Ed	Fall 2026 Topics	Homework Due	QUIZ
Week 1					
1-Sep	1	1.1 - 1.3	Review of Mathematics I: Differential calculus		
3-Sep	2	1.4 - 1.6	Review of Mathematics II: Integral calculus		
4-Sep	3		Mathematics for Electromagnetics, Potentials and Charge		0
Week 2					
8-Sep	4	2.1	Coulomb's Law and The Electric Field	1	
10-Sep	5	2.2	Gaus's Law		
11-Sep	6	2.1-2.2	Electric Field By Direct Integration		1
Week 3					
15-Sep	7	2.1, 2.2	Div and Curl of E	2	
17-Sep	8	2.3	Electric Potential + Poisson + Laplace		
18-Sep	9	2.1-2.3	Gauss's Law + GRE problems + symmetry (Group Theory)		2
Week 4					
22-Sep	10	2.4	Work and Energy	3	
24-Sep	11	2.5, 3.1	Conductors, Thomas-Fermi screening, solutions to Laplace's equations		
25-Sep	12	2.3-2.5	Potential problems and GRE problems		3
Week 5					
29-Sep	13	3.2	Method of images	4	
1-Oct	14	3.3	Separation of variables in spherical coords I		
2-Oct	15	3.1, 3.2	Method of Images + Numerical solutions to Laplace's Equation		4
Week 6					
6-Oct	16	3.3	Separation of variables in spherical coords II + multipole expansion	5	
8-Oct	17	3.4, 4.1	Multipole expansions (short) + Electric Dipole		
9-Oct	18	3.2, 3.4	Method of Images + Multipole problems		5
Week 7					
13-Oct			FALL BREAK		
15-Oct	19	4.1	Polarization		
16-Oct	20	3.3, 3.4	Separation of Variables in Cylindrical Coords + Multipole problem + REVIEW	Review for the exam	6
Week 8					
20-Oct	21	4.2	Field of a Polarized Object I	6	
22-Oct	22		EXAM 1, Chapters 1 - 3		
23-Oct	23		NO Recitation		
Week 9					
27-Oct	24	4.2	Field of a Polarized Object II	7	
29-Oct	25	4.3, 4.4	Ferroelectrics/Critical behavior		
30-Oct	26	3.1, 4	Fields and potentials and Earnshaw's Theorem		7
Week 10					
3-Nov	27	5.1	Magnetic fields + Lorentz Force	8	
5-Nov	28	5.2	Force on currents I, K, J, Biot-Savart		
6-Nov	29	5.1, 5.2	Biot Savart Law		8
Week 11					
10-Nov	30	5.3	Biot-Savart, Div, Curl B, Ampere's Law	9	
12-Nov	31	5.3	Ampere's Law in integral form; Electrostatics and Magnetostatics, Magnetoencephalography		
13-Nov	32	5.1 - 5.3	Magnetostatics		9
Week 12					
17-Nov	33	5.4	Magnetic vector potential		
19-Nov	34	5.2.2, 5.3.3	Solenoid Vector Potential and Aharonov-Bohm Effect		
20-Nov	35	5.4	Magnetic Vector Potential + REVIEW	Review for the exam	10
Week 13					
24-Nov	36	5.4.3	Multipole Expansion for vector potential	10	
26-Nov			Thanksgiving		
27-Nov			Holiday		
Week 14					
1-Dec	37	6.1	Multipole Expansion for A, Magnetization		
3-Dec	38		EXAM 2, Chapters 4 - 5		
4-Dec	39		NO Recitation		
Week 15					
8-Dec	40	6.2	Field of a Magnetized Object	11	
10-Dec	41	6.3, 6.4	H-Field and Magnetic Media		
11-Dec	42	6.1 - 6.4	H, B, M + REVIEW	Review for the FINAL exam	
18-Dec	43	FINAL EXAM	4:00 - 6:00 PM Covering ALL Material		