

PHY3323 (Fall 2020)

Date	Lecture Topics	Project	Assignments due
Week 1 8/24 ~ 8/28	Introduction and Overview Lecture #1		
Week 2 8/31 ~ 9/4	Lecture #1 Vector Algebra & Calculus		Assignment #1
Week 3 9/7 ~ 9/11	Lecture #2 Curvilinear coordinates and Dirac Delta Function		Assignment #2
Week 4 9/14 ~ 9/18	Lecture #3 Electric Field and Potential		Assignments #3
Week 5 9/21 ~ 9/25	Lecture #4 Work and Energy in Electrostatics		No Assignment due
9/24	Test #1		
Week 6 9/28 ~ 10/2	Lecture #5 Laplace's Equation & Method of images		Assignment #4
Week 7 10/5 ~ 10/9	Lecture #6 Separation of variables & Multipole expansion		Assignment #5
Week 8 10/12 ~ 10/16	Lecture #6 Separation of variables & Multipole expansion		Assignment #6
Week 9 10/19 ~ 10/23	Lecture #7 Polarization & Polarized Objects		No Assignment
Week 10 10/26 ~ 10/30	Lecture #8 Electric Displacement & Dielectrics		Assignment #7
Oct. 29	Test #2		
Week 11 11/2 ~ 11/6	Lecture #9 The Lorentz Force & the Biot-Savart Laws		Assignment # 8
Week 12 11/9 ~ 11/13	Lecture #10 Magnetic vector potential & Divergence and Curl of B		Assignment #9
Week 13 11/16 ~ 11/20	Lecture #11 Magnetization & magnetic Field		Assignment #10
Week 14 11/23 ~ 11/27	Lecture #12 The Auxiliary Field & magnetic susceptibility		No Assignment due
Week 15 11/30 ~ 12/4	Lecture #12 The Auxiliary Field & magnetic susceptibility		Assignment #11
TBA	Final exam		