

Preliminary Course Syllabus

Aug. 31, Sept. 2, 4	Introduction to Electricity and Magnetism <i>Prepare:</i> Griffiths Chapter 1 <i>Assignments:</i>
Sept. (7), 9, 11	Electric Field <i>Prepare:</i> Griffiths Chapter 2 §§2.1-2 <i>Assignments:</i> Problem Set #1 due 9/18
Sept. 14, 16, 18	Electric Potential <i>Prepare:</i> Griffiths Chapter 2 §§2.3-5 <i>Assignments:</i> Problem Set #2 due 9/25
Sept. 21, 23, 25	Laplace's Equation <i>Prepare:</i> Griffiths Chapter 3 §§3.1-2 <i>Assignments:</i> Problem Set #3 due 10/2
Sept. 28, 30, Oct. 2	Separation of Variables, Multipole Expansion <i>Prepare:</i> Griffiths Chapter 3 §§3.3-4 <i>Assignments:</i> Problem Set #4 due 10/7
HOURLY EXAM I (Chapts. 1-3), FRIDAY., OCTOBER 9, TBA	
Oct. 5, 7, 9	Electric Fields in Matter <i>Prepare:</i> Griffiths Chapter 4 §§4.1.2 <i>Assignments:</i> Problem Set #5 due 10/16
Oct. 12, 14, 16	Electric Displacement and Linear Dielectrics <i>Prepare:</i> Griffiths Chapter 4 §§4.3-4 <i>Assignments:</i> Problem Set #6 due 10/23
Oct. 19, 21, 23	Lorentz and Biot-Savart Laws <i>Prepare:</i> Griffiths Chapter 5 §§5.1-2 <i>Assignments:</i> Problem Set #7 due 10/30
Oct. 26, 28, 30	Magnetic Field Divergence, Curl and Vector Potential <i>Prepare:</i> Griffiths Chapter 5 §§5.3-4 <i>Assignments:</i> Problem Set #8 due 11/6
Nov. 2, 4, 6	Magnetic Fields in Matter <i>Prepare:</i> Griffiths Chapter 6 <i>Assignments:</i> Problem Set #10 due 11/11
HOURLY EXAM II (Chapts. 4-6), FRIDAY, NOVEMBER 13, TBA	
Nov. 9, 11, 13	Magnetic Fields in Matter <i>Prepare:</i> Griffiths Chapter 7 §§7.1-2 <i>Assignments:</i> Problem Set #11 due 11/20
Nov. 16, 18, 20	Linear and Nonlinear Media <i>Prepare:</i> Griffiths Chapter 7 §§7.3 <i>Assignments:</i> Problem Set #12 due 11/30
----- THANKSGIVING VACATION -----	
Nov. 30, Dec. 2, 4	Electromagnetic Waves <i>Prepare:</i> Griffiths Chapter 9 §§9.1-3 <i>Assignments:</i> Problem Set #13 due 12/9
Dec. 7, 9	Electromagnetic Waves <i>Prepare:</i> Griffiths Chapter 9 §§9.4-5 <i>Assignments:</i> Problem Set #14 due 12/11
Dec. 15	FINAL EXAM (Tuesday, 1:30 pm)