Syllabus

Week 01		
Jan 07, Wednesday	Discussion 00	Get organized
Jan 08, Thursday	Lecture 01	Intro, Coulomb's Law, Ch21:1-3
Week 02		
Jan 12, Monday	Discussion 01	Ch21 (4, 20, 22, 74)
Jan 13, Tuesday	Lecture 02	Electric Field, Ch21: 4-5
Jan 14, Wednesday	Discussion 02	Ch21 (34, 57, 96, 99)
Jan 15, Thursday	MP#01 due at 8:00 am	
Jan 15, Thursday	Lecture 03	E field lines, dipoles Ch21: 6-7
Week 03		
Jan 19, Monday	MP#02 due at 8:00 am	
Jan 19, Monday	MLK Day	No discussion class
Jan 20, Tuesday	Lecture 04	E Flux, Gauss's Law, Ch22: 1-3
Jan 21, Wednesday	Discussion 03,04	Ch21 (58) Ch22 (4, 26, 44)
Jan 22, Thursday	MP#03 due at 8:00 am	
Jan 22, Thursday	Lecture 05	Applying Gauss's Law Ch22: 4-5
Week 04		
Jan 26, Monday	MP#04 due at 8:00 am	
Jan 26, Monday	Discussion 05	Ch22 (30, 54, 58, 62)
Jan 27, Tuesday	Lecture 06	Electric Potential, Ch23: 1-3
Jan 28, Wednesday	Discussion 06	Ch23 (12, 18, 38, 44)
Jan 29, Thursday	MP#05 due at 8:00 am	
Jan 29, Thursday	Lecture 07	E Potential/gradient Ch23: 3-5
Week 05		
Feb 02, Monday	MP#06 due at 8:00 am	
Feb 02, Monday	Discussion 07	Ch23 (48, 62, 66, 80)
Feb 03, Tuesday	Lecture 08	Capacitance, Ch24: 1-3
Feb 04, Wednesday	Discussion 08	Ch24 (12, 22, 50, 66)
Feb 05, Thursday	MP#07 due at 8:00 am	
Feb 05, Thursday	Lecture 09	Field Energy/dielectrics, Ch24: 3-6
Feb 05, Thursday	**Exam #1: 8:00 – 9:30 pm, Ch 21 - 23**	
Week 06		
Feb 09, Monday	MP#08 due at 8:00 am	
Feb 09, Monday	Discussion 09	Ch24 (32, 36, 44, 71)
Feb 10, Tuesday	Lecture 10	Current and Resistance Ch25: 1-3, 6
Feb 11, Wednesday	Discussion 10	Ch25 (2, 12, 60, 64)
Feb 12, Thursday	MP#09 due at 8:00 am	
Feb 12, Thursday	Lecture 11	EMF and Power, Ch25: 4-5
Week 07		
Feb 16, Monday	MP#10 due 8:00 am	
Feb 16, Monday	Discussion 11	Ch25 (54, 68, 78, 86)
Feb 17, Tuesday	Lecture 12	DC circuits, Ch26: 1-3
Feb 18, Wednesday	Discussion 12	Ch26 (14, 24, 57, 77)
Feb 19, Thursday	MP#11 due 8:00 am	
Feb 19, Thursday	Lecture 13	RC Circuits, Ch26: 4
Spring Break Feb 21 – March 1		
Week 08		
Mar 03, Tuesday	MP#12 due 8:00 am	*Delay due date to Tuesday 8am*
Mar 02, Monday	Discussion 13	Ch26 (38, 48, 82, 84)
Mar 03, Tuesday	Lecture 14	Magnetic field & motion of charged particles, Ch27: 1-5
Mar 04, Wednesday	Discussion 14	Ch 27 (22, 27, 28, 64)
Mar 05, Thursday	MP#13 due 8:00 am	
Mar 05, Thursday	Lecture 15	Mag. Forces, Hall Effect Ch27: 6-9

Week 09		
Mar 09, Monday	MP#14 due 8:00 am	
Mar 09, Monday	Discussion 15	Ch27 (40, 44, 66, 72)
Mar 10, Tuesday	Lecture 15-R	Review, intro to sources of B fields
Mar 11, Wednesday	Discussion 15-R	Review
Mar 12, Thursday	MP#15 due 8:00 am	
Mar 12, Thursday	Lecture 16	Sources of B, Biot-Savart Law, Ch28: 1-5
Mar 12, Thursday	**Exam #2: 8:00 – 9:30 pm, Ch 24 - 27**	
Week 10		
Mar 16, Monday	No MP due today	
Mar 16, Monday	Discussion 16	Ch28 (30, 64, 70, 76)
Mar 17, Tuesday	Lecture 17	Ampere's Law, magnetic materials, Ch28: 6-7
Mar 18, Wednesday	Discussion 17	Ch28 (37, 44, 81, 82)
Mar 19, Thursday	MP#16 due 8:00 am	
Mar 19, Thursday	Lecture 18	Induction, Faraday's Law Ch29: 1-4
Week 11		
Mar 23, Monday	MP#17 due 8:00 am	
Mar 23, Monday	Discussion 18	Ch29 (7, 20, 50, 56)
Mar 24, Tuesday	Lecture 19	Induced E, Displacement I, Maxwell's Equations, Ch29: 5-7
Mar 25, Wednesday	Discussion 19	Ch29 (26, 36, 39, 67)
Mar 26, Thursday	MP#18 due 8:00 am	
Mar 26, Thursday	Lecture 20	Inductance, Mag. Energy Ch30: 1-3
Week 12		
Mar 30, Monday	MP#19 due 8:00 am	
Mar 30, Monday	Discussion 20	Ch30 (2, 14, 48, 50)
Mar 31, Tuesday	Lecture 21	RL, LC, & RLC Circuits Ch30: 4-6
Apr 01, Wednesday	Discussion 21	Ch30 (32, 60, 62, 75)
Apr 02, Thursday	MP#20 due 8:00 am	
Apr 02, Thursday	Lecture 22	AC, RMS, Transformers, Reactance Ch31: 1, 2, 6 Ch26: 5
Week 13		
Apr 06, Monday	MP#21 due 8:00 am	
Apr 06, Monday	Discussion 22	Ch26 (50, 52) Ch31 (37, 38)
Apr 07, Tuesday	Lecture 23	AC circuits, Resonance Ch31: 2-5
Apr 08, Wednesday	Discussion 23	Ch31 (12, 30, 42, 50)
Apr 09, Thursday	MP#22 due 8:00 am	
Apr 09, Thursday	Lecture 24	Electromagnetic Waves Ch32: 1-3, 6
Apr 09, Thursday	**Exam #3: 8:00 – 9:30 pm Ch 28 - 30; Ch 31:1,2,6; Ch26:5**	
Week 14		
Apr 13, Monday	MP#23 due 8:00 am	
Apr 13, Monday	Discussion 24	Ch32 (2, 6, 10, 36)
Apr 14, Tuesday	Lecture 25	Radiation Energy and Momentum Ch32: 3-5
Apr 15, Wednesday	Discussion 25	Ch32 (18, 22, 44, 54)
Apr 16, Thursday	MP#24 due 8:00 am	
Apr 16, Thursday	Lecture 26	Nature of Light, Ch33: 1-5
Week 15		
Apr 20, Monday	MP#25 due 8:00 am	
Apr 20, Monday	Discussion 26	Ch33 (22, 34, 40, 46)
Apr 21, Tuesday	Lecture 27-last day of classes wrap-up, final exam thoughts	
Apr 23, Thursday	MP#26 due 8:00 am	
Apr 24, Friday	**Final Exam: 7:30 – 9:30 pm (2 hours) Comprehensive**	