Lecture Schedule

Lecture	Day	Date	Lecture Topics	Hecht Reading
0	M	Jan 19	Introduction; Math Review	Appendices C, D, and F
1	W	Jan 21	Relativity Postulates; Simultaneity	26.1 - 26.3
2	F	Jan 23	Time Dilation; Length Contraction; Twin Effect	26.4 - 26.7
3	M	Jan 26	Relativistic Velocity Addition; Relativistic Momentum	26.8, 26.9
4	W	Jan 28	Relativistic Energy; General Relativity	26.10
5	F	Jan 30	Guest Lecture and Q/A - Medical School and Beyond	none
6	M	Feb 2	Charge; Insulators and Conductors	$15.1,\ 15.2$
7	W	Feb 4	Coulomb's Law; Electric Field	15.3, 15.4
8	F	Feb 6	Electric Field; Gauss's Law	15.4 - 15.6
9	M	Feb 9	Gauss's Law; Electric Potential	15.6, 16.1
10	W	Feb 11	Electric Potential; Equipotentials	16.1, 16.2
11	F	Feb 13	Charge Distributions	16.3 - 16.6
12	M	Feb 16	Capacitors	16.7, 16.8
\mathbf{E}	W	Feb 18	Midterm Exam #1 - in class	none
13	F	Feb 20	Energy in Capacitors; Electric Current	16.9, 17.1
14	M	Feb 23	Ohm's Law; Resistivity	17.1 - 17.3
15	W	Feb 25	Voltage; Energy and Power; Current Density	17.4 - 17.6
16	F	Feb 27	Internal Resistance; Resistors in Series and Parallel	18.1, 18.2
17	M	Mar 1	RC Circuits; Kirchoff's Rules	18.3 - 18.5
18	W	Mar 3	Magnets; Magnetic Fields	19.1, 19.2
19	F	Mar 5	Currents and Magnetic Fields	19.3, 19.4
_	M	Mar 8	Spring Break - no class	none
_	W	Mar 10	Spring Break - no class	none
=	F	Mar 12	Spring Break - no class	none
20	M	Mar 15	Magnetic Force on Moving Charges	19.5, 19.6
21	W	Mar 17	Faraday's Induction Law; Motional emf	$20.1,\ 20.2$
22	F	Mar 19	AC and DC Generators; Inductance; RL Circuits	20.3 - 20.7
23	M	Mar 22	EM Waves; Irradiance; Energy Quanta; Atoms and Light	22.1 - 22.7
24	W	Mar 24	EM Spectrum; Scattering; Reflection	22.8 - 22.14, 23.1 - 23.3
25	F	Mar 26	Refraction; Total Internal Reflection	23.4 - 23.6
26	M	Mar 29	Lenses; Focal Points and Focal Planes	24.1 - 24.4
\mathbf{E}	W	Mar 31	Midterm Exam #2 - in class	none
27	F	Apr 2	Single and Combination Lenses	24.5, 24.6
28	M	Apr 5	Mirrors; Polarization	24.7, 25.1
29	W	Apr 7	Polarization; Young's Experiment	25.2 - 25.4
30	F	Apr 9	Interference and Diffraction	25.6 - 25.9
31	M	Apr 12	AC Current; Reactance	21.1 - 21.3
32	W	Apr 14	LCR Circuits; Impedance; Power and Resonance	21.4
33	F	Apr 16	X-rays; Radioactivity; Atomic Spectra; Radiation	27.1 - 27.9
34	M	Apr 19	Blackbody Radiation; Photoelectric Effect	28.1 - 28.4
35	W	Apr 21	Bohr Atom; Lasers	28.5 - 28.7
36	F	Apr 23	de Broglie Waves; Quantum Numbers	29.1 - 29.4
37	M	Apr 26	Zeeman Effect; Spin; Uncertainty Principle	29.5 - 29.9
38	W	Apr 28	Radioactive Decay; Half-life; Fission and Fusion	30.8 - 30.10
39	F	Apr 30	Review - all course work due today	none

The **Final Exam** is a self-scheduled exam to be taken during final exam week (see the Registrar's policy for allowed dates and times).