Week		Monday		Wednesday		Friday
1	January 17-21 Lab: Review Wkst	ch16§1-3 Electric charges, insulators and conductors		ch16§4-7 Coulomb's law and electric fields		ch16§8-9 Field lines and conductors
2	January 24-28 Lab: Coulomb's Law	ch16§10 Gauss's law		ch17§1-2 Electric potential energy and potential difference		ch17§3-4 Equipotential lines and E-field lines
3	Jan 31-Feb 4 Lab: E-scope, Gauss	ch17§5-6 Point charges and dipoles		ch17§7,9 Capacitors and energy storage		ch18§1-3 Batteries and electric currents **(Quiz)**
4	February 7-11 Lab: Potential mapping	ch18§3-4 Ohm's law		ch18§3-5 Ohm's law and electrical power		ch19§1-2 Parallel and series circuits
5	February 14-18 Lab: Circuits	Ch19§3 Kirchoff's rules		Ch20§1 magnets and magnetic fields		Ch20§3-4 Magnetic force
6	February 21-25 **Exam**, No lab	Ch20§2,5 currents produce magnetic fields		Ch20§8 Ampere's law		Ch20§9-10 torque on a current loop and applications
7	Feb 28-March 4 Lab: B-field; solenoid	Ch21§1 Demonstrations of EM induction		Ch21§2 Faraday's law and lenz's law		Ch21§3 Generators and motional EMF
8	March 7-11 Lab: Cathode rays	Ch22§1 Changing $\mathbf{E} \Rightarrow \mathbf{B}$ and Maxwell's equations		Ch22§2 Electromagnetic (EM) waves and EM spectrum		Ch22§3,5 Producing EM waves and polarization **(Quiz)**
	March 14-18	Spring break!!!				
	March 21-25	Spring break!!!				
9	March 28-April 1 Lab: EM induction	Ch23§1,2,4 Light rays; laws of reflection and refraction		Ch23§3 Image formation by mirrors		Ch23§5-6 Total internal reflection and intro to lenses
10	April 4-8 Lab: Snell's law	Ch23§7 Image formation by lenses; ray tracing		Ch23§8 Thin lens equation		Ch24§1 Wave or particle?! Huygen's principle
11	April 11-15 **Exam**, No lab	Ch24§3,6 Interference –2-slit and multi-slit experiments		Ch24§4 Single slit diffraction and Poisson's spot		Ch24§8 Thin film interference
12	April 18-22 Lab: Thin lenses	Ch26§1 Galilean relativity		Ch26§2-3 Einstein's postulates and simultaneity		Ch26§4-5 Time dilation and length contraction
13	April 25-29 Lab: Interference	Ch27§1-3 Photoelectric effect		Ch27§4-5 Compton effect		Ch27§7-8 Particle waves **(Quiz)**
14	May 2-6 Lab: H-atom spectrum	Ch27§12 Bohr Model of hydrogen atom		Ch28§1-2 Wavefunctions and uncertainty		Ch28§3-6 Superposition, cats, and entanglement

Final exam is cumulative and is scheduled for Thursday May 12 from 2-5 pm.