

## Class Schedule

Wednesday	Jan. 24	<b>topic:</b> Introduction: Electromagnetic's and Modern Physics
Friday	Jan. 26	<b>topic:</b> Wave Optics and Interference <b>read:</b> chapter 22, sections 1 through 3
Monday	Jan. 29	<b>topic:</b> Diffraction <b>read:</b> chapter 22, sections 4 through 6
Wednesday	Jan. 31	<b>topic:</b> Ray Optics and Reflection <b>read:</b> chapter 23, sections 1 through 3
Friday	Feb. 3	<b>topic:</b> Refraction and Image Formation <b>read:</b> chapter 23, sections 3 through 5
Monday	Feb. 5	<b>topic:</b> Lenses <b>read:</b> chapter 23, sections 6 through 8
Wednesday	Feb. 7	<b>topic:</b> Electrostatic Force: Coulomb's Law <b>read:</b> chapter 25, sections 1 through 4
Friday	Feb. 9	<b>topic:</b> The Electric Field <b>read:</b> chapter 25, sections 5 and 6, chapter 26, sections 1, 2, 6, and 7
Monday	Feb. 12	<b>topic:</b> Electric Field for Continuous Charge Distribution <b>read:</b> chapter 26, sections 3 through 5
Wednesday	Feb. 14	<b>topic:</b> Electric Field Lines and Gauss's Law <b>read:</b> chapter 27, sections 1 through 4
Friday	Feb. 16	<b>topic:</b> Applications of Gauss's Law and Conductors <b>read:</b> chapter 27, sections 5 and 6
Monday	Feb. 19	<b>topic:</b> Electric Current and Batteries <b>read:</b> chapter 28, sections 1 through 3
Wednesday	Feb. 21	<b>topic:</b> Electric Current and Resistance <b>read:</b> chapter 28, sections 4 and 5
Friday	Feb. 23	<b>topic:</b> Electric Potential Energy <b>read:</b> chapter 29, sections 1 through 4
Monday	Feb. 26	<b>- Exam #1 - covers material from Jan. 24 through Feb. 21</b>

Wednesday Feb. 28 **topic:** Examples of Electric Potential  
**read:** chapter 29, sections 5 through 7

Friday March 2 **topic:** Connection Between Potential and Fields  
**read:** chapter 30, sections 1 through 4

Monday March 5 **topic:** Capacitors  
**read:** chapter 30, sections 5 through 7

Wednesday March 7 **topic:** Kirchhoff's Laws  
**read:** chapter 31, sections 1, 2, 4, 5, and 7

Friday March 9 **topic:** Electric Circuits  
**read:** chapter 31, sections 3, 6, 8 through 10

**- Spring Break - March 9, 5:00PM - March 19, 8:00AM**

Monday March 19 **topic:** The Magnetic Field  
**read:** chapter 32, sections 1 through 4

Wednesday March 21 **topic:** Ampere's Law  
**read:** chapter 32, section 5 through 7

Friday March 23 **topic:** Magnetic Force on a Current-Carrying Wire  
**read:** chapter 32, sections 8 through 10

Monday March 26 **topic:** Faraday's Law  
**read:** chapter 33, sections 1 through 5

Wednesday March 28 **topic:** Electromagnetic Induction  
**read:** chapter 33, sections 6 through 10

Friday March 30 **topic:** Maxwell's Equations  
**read:** chapter 34, section 1 through 5, sections 3, 4 lightly

Monday April 2 **- Exam #2 - covers material from Feb. 23 through March 28**

Wednesday April 4 **topic:** Electromagnetic Wave  
**read:** chapter 34, sections 6 through 8

**Easter Break – April 5 5:00PM – April 10 8:00AM**

Wednesday April 11 **topic:** Alternating-Current Circuits  
**read:** chapter 35, sections 1, 2, 4 through 6

Friday	April 13	<b>topic:</b> Special Theory of Relativity <b>read:</b> chapter 36, sections 1 through 5
Monday	April 16	<b>topic:</b> Relativistic Dynamics <b>read:</b> chapter 36, sections 6, 7, 9, 10
Wednesday	April 18	<b>topic:</b> End of the Classical Period <b>read:</b> chapter 37, sections 1 through 9
Friday	April 20	<b>topic:</b> Origins of the Quantum Theory <b>read:</b> chapter 38, sections 1 through 4
Monday	April 23	<b>topics:</b> Atomic Theory/ Bohr Atom (short class Jr/Sr Day) <b>read:</b> chapter 38, sections 5 through 7; chapter 24, section 5
Wednesday	April 25	<b>topics:</b> Quantum Theory and Matter Waves <b>read:</b> chapter 39, sections 1 - 6, chapter 24, sections 1 - 4
Friday	April 27	<b>topic:</b> Nuclear Physics <b>read:</b> chapter 42, sections 1 through 4
Monday	April 30	<b>topic:</b> Radioactivity <b>read:</b> chapter 42, sections 5 through 7
Wednesday	May 2	<b>- Exam #3 - covers material from March 30 through April 27</b>
Friday	May 4	<b>topic:</b> Review
Saturday	May 5	<b>-Finals Start - Saturday, May 5 - Wednesday, May 9</b>

***Great job and  
have a wonderful Summer!***