<table>
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<th>Monday Lecture</th>
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| **January 15**<br>**Martin Luther King Day**<br>
HW 1 | **January 16**<br>HW 1 | **January 17**<br>Read 21:1-3<br>Electric Charge, Coulomb's Law | **January 18**<br>HW 2<br>21: 17, 36, 42, 45<br>Special Problem 1 |  |
| **January 22**<br>Read 21:4-6<br>Electric Field, Field Lines, Motion of a Charge in Electric Field<br>
HW 3 21: 26, 29, 75<br>Special Problem 2 | **January 23**<br>HW 3 21: 26, 29, 75<br>Special Problem 2 | **January 24**<br>Read 21:5<br>Electric Field of a Charge Distribution | **January 25**<br>HW 4 21: 52, 79, 87<br>Special Problems 3, 4 | Odd<br>O1: Coulomb's Law |
| **January 29**<br>Read 21:7<br>Dipoles, Electric Flux, Gauss Law<br>
HW 5 21: 53, 56 22: 11, 44<br>Special Problem 5 | **January 30**<br>HW 5 21: 53, 56 22: 11, 44<br>Special Problem 5 | **January 31**<br>Read 22:1-5<br>Gauss' Law Calculations, Conductors and Electric Fields | **February 1**<br>HW 6 22: 17, 38, 39, 53, 54 | Even<br>E1: Electrical Instruments |
| **February 5**<br>Read 23:1-2<br>Electric Potential, Electric Potential Energy<br>
HW 7 23: 9, 10, 18, 21, 48 | **February 6**<br>HW 7 23: 9, 10, 18, 21, 48 | **February 7**<br>Read 23:3-5<br>Electric Potentials of Charge Distributions, Equipotentials, Potential Gradient | **February 8**<br>HW 8 23: 33, 42, 43, 73<br>Special Problem 6 | Odd<br>O2: Fields and Potentials |
| **February 12**<br>Exam I Review<br>
HW 9 Test Prep I<br>Exam I, 5:00 p.m. | **February 13**<br>HW 9 Test Prep I<br>Exam I, 5:00 p.m. | **February 14**<br>Read 24:1-2<br>Capacitance, Capacitors in Series and Parallel | **February 15**<br>HW 10 24: 5, 9, 13, 17, 53 | Even<br>E2: Capacitors |
| **February 19**<br>Read 24:3-4<br>Energy Stored in Capacitors and Electric Fields, Dielectrics<br>
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| February 26  
Read 25:4-5  
Emf, Electric Power | February 27  
HW 13  
25: 37, 44, 46, 47, 67 | February 28  
Read 26:1-2  
Resistors in Series and Parallel, Kirchhoff’s Rules | March 1  
HW 14  
26: 16, 18, 22, 59, 62 | Even  
E3: Ohm's Law, Internal Resistance |
| March 5  
Read 26:3-4  
Electrical Instruments, RC Circuits | March 6  
HW 15  
26: 6, 36, 41, 46, 50 | March 7  
Read 27:1-5  
Magnetic Fields and Flux, Motion of Charged Particle in Magnetic Field, Gauss’ Law for Magnetism | March 8  
HW 16  
27: 6, 10, 19, 27, 51 | Odd  
O4: Series RC Circuits |
| March 12  
Read 27:5-7  
Magnetic Forces on Currents, Magnetic Torque | March 13  
HW 17  
27: 39, 45, 60, 65, 75 | March 14  
Read 28:1-4  
Magnetic Field of a Current, Biot-Savart Law, Magnetic Field of Wires, Magnetic Force Between Conductors | March 15  
HW 18  
Spring Recess  
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Spring Recess |
| March 19  
Exam II Review | March 20  
HW 19  
Test Prep II  
Exam II, 5:00 p.m. | March 21  
Read 28:5-7  
Magnetic Field of Current Loop, Ampere’s Law, Solenoids, Toroids | March 22  
HW 20  
28: 6, 31, 34, 45, 49, 50 | Even  
E4: Current Balance |
| March 26  
Spring Break | March 27  
Spring Break | March 28  
Spring Break | March 29  
Spring Break | No Labs  
Spring Break |
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<td>April 2</td>
<td>April 3 HW 21</td>
<td>April 4 Read 29:5-7</td>
<td>April 5 HW 22</td>
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<tr>
<td>Read 29:1-4</td>
<td>29: 16, 26, 29, 49, 56</td>
<td>Induced Electric Field, Eddy Currents, Displacement Current</td>
<td>29: 40, 50, 52, 63</td>
<td>O5: Generator</td>
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<tr>
<td>Faraday's Law, Induction, Lenz's Law, Generators, Motional emf</td>
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<td>Special Problem 8</td>
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<td>April 3</td>
<td>April 4 Read 29:5-7</td>
<td>April 5 HW 22</td>
<td>April 6 HW 23</td>
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<td>HW 23 32: 14, 22, 28, 39, 46</td>
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<td>29: 40, 50, 52, 63</td>
<td>32: 14, 22, 28, 39, 46</td>
<td>E5: Snell's Law</td>
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<td>April 10</td>
<td>April 11 Read 33:1-4</td>
<td>April 12 HW 24</td>
<td>April 13 HW 25</td>
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<td>HW 23 Test Prep III</td>
<td>Light: Reflection, Refraction and Dispersion</td>
<td>33: 11, 23, 44, 47</td>
<td>33: 11, 23, 44, 47</td>
<td>O6: Lenses</td>
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<tr>
<td>Electromagnetic Waves</td>
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<td>Special Problem 9</td>
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<td>April 16</td>
<td>April 17 HW 25</td>
<td>April 18 Read 34:1-2</td>
<td>April 19 HW 26</td>
<td>Even</td>
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<tr>
<td>Exam III Review</td>
<td>Test Prep III Exam III, 5:00 p.m.</td>
<td>Concave and Convex Mirrors</td>
<td>34: 7, 10, 67, 71</td>
<td>E6: Dispersion</td>
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<td>Special Problem 10</td>
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<td>April 23</td>
<td>April 24 HW 27</td>
<td>April 25 Read 35:1-3</td>
<td>April 26 HW 28</td>
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<tr>
<td>Read 34:3-8</td>
<td>34: 30, 36, 38, 46</td>
<td>Read 36:1-6</td>
<td>35: 2, 12, 16, 36</td>
<td>O6: Lenses</td>
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<td>Lenses, Optical Instruments</td>
<td>Special Problem 11</td>
<td>Double Slit Interference Diffraction</td>
<td>36: 15, 25, 47</td>
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<td>April 30</td>
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<td>May 2 Final Exam Review</td>
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<tr>
<td>Read 35:4-5</td>
<td>35: 25, 27, 31, 47</td>
<td>Final Exam Review</td>
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<td>Thin Film Interference</td>
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<td>No Labs</td>
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<td>May 1</td>
<td>May 2 Final Exam Review</td>
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Monday, May 7, 12:30 p.m. – 2:30 p.m.
End Material Test and Comprehensive Final Exam