

PHY 131

July 2 – Aug 3, 2007

Monday	Tuesday	Wednesday	Thursday	Friday
<p>July 2</p> <p>Coulomb's Law; Electric Fields</p> <p>P 22:26 W 23:16,32 21: 23,58,77,78</p>	<p>Q July 3</p> <p>Continuous Q Distributions; Motion in an Electric Field</p> <p>P 23:25,37 21: 39,49,86,95,98</p>	<p>July 4</p> <p>HOLIDAY</p>	<p>Q July 5</p> <p>Electric Dipole in an E Field; Gauss' Law</p> <p>21: 60,62 P 23:59 H 25:1 22: 6,30,44</p>	<p>Q July 6</p> <p>Cylindrical and Planar Symmetry; Conductors</p> <p>22: 17,20,28,38, 45,48,54</p>
<p>Q July 9</p> <p>Surface Q's on Conductors; Electric Potential Energy</p> <p>P 24:24, 25:88 F 24:38,45, W 26:3 23: 12,48</p>	<p>July 10</p> <p>TEST 1</p> <p>Chapters 21–22,23.1</p>	<p>July 11</p> <p>Electric Potential; Fields from Potentials</p> <p>H 26:19,20 P 25:58, W 25:50 23: 17,71,72*</p>	<p>Q July 12</p> <p>Conductors and Potential; Capacitance</p> <p>23: 45*,76 W 25:58, 26:10,15 H 27:7 24: 9*</p>	<p>Q July 13</p> <p>Combinations of Capacitors; Dielectrics</p> <p>24: 58,59,62,64 H 27:13,43,45</p>
<p>Q July 16</p> <p>Induced Q in a Dielectric; Current and Resistance</p> <p>P 26:53,66 H 27:18, W 27:4 27: 3,56,60</p>	<p>Q July 17</p> <p>EMF; Electric Power; Kirchhoff's Rules for Circuits</p> <p>W 27:62, 28:12 25: 46*,58 26: 12,58,79</p>	<p>July 18</p> <p>TEST 2</p> <p>Chapters 23.2–24.5, 25.1–5, 26.1–3</p>	<p>July 19</p> <p>Magnetism; Magnetic Forces on Moving Q's, Currents, and Magnetic Dipoles</p> <p>H 30:9,22,29,31 27: 67,72,76*</p>	<p>Q July 20</p> <p>Biot–Savart Law; Magnetism and Relativity</p> <p>28: 8,62,67* W 30:57,58 H 31:5,25</p>
<p>Q July 23</p> <p>Ampere's Law; Solenoids and Toroids</p> <p>28: 31,84 W 30:42,48,68 P 30:73, F 30:32</p>	<p>Q July 24</p> <p>Faraday's Law; Motional EMF; Eddy Currents</p> <p>29: 2,6,24,25,54,76* H 32:7</p>	<p>Q July 25</p> <p>Induced E Fields; Generators and Motors; Inductance</p> <p>29: 27*,32*,51,63* W 32: 9 30: 45,50</p>	<p>July 26</p> <p>TEST 3</p> <p>Chapters 28.1–7, 29.2–7 29.1–6, 30.1–2</p>	<p>July 27</p> <p>Inductor Energy; Ampere–Maxwell Law</p> <p>30: 44,64,66,70 W 34: 6 P 32: 28,38</p>
<p>Q July 30</p> <p>Differential Equations; RC Circuits; LR Circuits</p> <p>26: 84, F 28:57 H 29:22, H 33:11,12 F 33:46, 30: 68*</p>	<p>Q July 31</p> <p>LC Circuits; LRC Circuits; Circuits with a Generator</p> <p>P 33:5,12 H 36:1(a–c),2(a–c),4 G 1,2</p>	<p>Q Aug 1</p> <p>Power in AC Circuits; Resonance; Transformers</p> <p>P 33:44,50 H 36:1–2(d),17 31: 32*, G 3,4</p>	<p>Q Aug 2</p> <p>Properties of Electromagnetic Radiation</p> <p>24: 32 30: 18 31: 60 32: 14,16,47*,50</p>	<p>Aug 3</p> <p>TEST 4</p> <p>Chapters 26.4, 29.7, 30.3–6, 31.2,5, 32.1–2,4</p>

HW is due on the first school day after it is assigned.

(Additions to problems (*'s) and problems with F,G,H,P, or W prefixes are available at our web site.)