

PHY 131

July 6 – Aug 6, 2004

Monday	Tuesday	Wednesday	Thursday	Friday
<p>July 5</p> <p>HOLIDAY</p>	<p>July 6</p> <p>Coulomb's Law; Electric Fields</p> <p>23: 4*,16,22,32* 34,E1 24: 4</p>	<p>Q July 7</p> <p>Continuous Q Distributions; Motion in an Electric Field</p> <p>23: 50,54,56,58,81 P 23:25,55</p>	<p>Q July 8</p> <p>Electric Dipole in an E Field; Gauss' Law</p> <p>23: 66,68 24: 11,24 H 25:1 P 23:59, 24:55</p>	<p>Q July 9</p> <p>Cylindrical and Planar Symmetry; Conductors</p> <p>24: 28,31,32, 36,48,56 P 24:66</p>
<p>Q July 12</p> <p>Surface Q's on Conductors; Electric Potential Energy</p> <p>P 24:24, 25:88 F 24:38,45 26: 5,6,E2</p>	<p>July 13</p> <p>TEST 1</p> <p>Chapters 23–24, 26.1</p>	<p>July 14</p> <p>Electric Potential; Fields from Potentials</p> <p>H 26:19,20 P 25: 58 25: 2,26,50,E3</p>	<p>Q July 15</p> <p>Conductors and Potential; Capacitance</p> <p>25: 35*,52,58 26: 10,15,36 H 27:7</p>	<p>Q July 16</p> <p>Combinations of Capacitors; Dielectrics</p> <p>26: 52,58,76,81 H 27:13,43,45</p>
<p>Q July 19</p> <p>Induced Q in a Dielectric; Current and Resistance</p> <p>P 26:53,66 H 27:18 27: 4,8,40,72</p>	<p>Q July 20</p> <p>EMF; Electric Power; Kirchoff's Rules for Circuits</p> <p>27: 62,67 28: 10,12,27*, 34,42</p>	<p>July 21</p> <p>TEST 2</p> <p>Chapters 25–28.5</p>	<p>July 22</p> <p>Magnetism; Magnetic Forces on Moving Q's, Currents, and Magnetic Dipoles</p> <p>H 30:9,22,29,31,33 29: 27,52</p>	<p>Q July 23</p> <p>Biot–Savart Law; Magnetism and Relativity</p> <p>30: 8*,10,24,57,58 H 31:5,25</p>
<p>Q July 26</p> <p>Ampere's Law; Solenoids and Toroids</p> <p>30: 28,42,48,68,E4 P 30:73 F 30:32</p>	<p>Q July 27</p> <p>Faraday's Law; Motional EMF; Eddy Currents</p> <p>31: 4,7,33,34,48 H 32:7,27</p>	<p>Q July 28</p> <p>Induced E Fields; Generators and Motors; Inductance</p> <p>31: 26,38,50 P 31:90 32: 9,22,E5</p>	<p>July 29</p> <p>TEST 3</p> <p>Chapters 29–30.5, 30.7–31.4, 32.1–2</p>	<p>July 30</p> <p>Energy in the B Field; Ampere– Maxwell Law; Displacement Current</p> <p>32: 64,68 34: E6,4,6 P 32: 28,38</p>
<p>Q Aug 2</p> <p>Differential Equations; RC Circuits; LR Circuits</p> <p>28: 52*, F 28:57, H 29:22, H 31:11,12 32: 36, F 33:46</p>	<p>Q Aug 3</p> <p>LC Circuits; LRC Circuits; Single Elements in AC Circuits</p> <p>P 33:5,12 H 36:1(a-c),2(a-c),4 G 1,2</p>	<p>Q Aug 4</p> <p>Power in AC Circuits; Resonance; Transformers</p> <p>P 33: 44,50 H 36:1–2(d),17 33: 58, G 3,4</p>	<p>Q Aug 5</p> <p>Properties of Electromagnetic Waves; Polarization</p> <p>34: 20,36,40, 52,64,71 P 34:6</p>	<p>Aug 6</p> <p>TEST 4</p> <p>Chapters 28.6, 32.3–34.10</p>

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

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