

# PHY-121

June 2 – July 3, 2003

<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>
<p><b>Jun 2</b></p> <p>Vectors; Variables of Kinematics</p> <p>1: 20 2: 12*,17,18 3: 24*,28 4: 8</p>	<p><b>Q Jun 3</b></p> <p>Constant Acceleration; Projectile Motion</p> <p>2: 32,38,52 4: 11,26,28 38</p>	<p><b>Q Jun 4</b></p> <p>Circular Motion; Relative Velocity</p> <p>4: 48,52 F 3:14,28, 60,65 S 3:62</p>	<p><b>Q Jun 5</b></p> <p>Newton's Laws; Weight; Forces between Surfaces</p> <p>5: 6,14,22, 26,27 F 4:24,26</p>	<p><b>Q Jun 6</b></p> <p>Tension; Slopes; Pulleys</p> <p>5: 24,30,34, 40,44,50, 52</p>
<p><b>Jun 9</b></p> <p><b>TEST 1</b></p> <p>Chapters 1–5</p>	<p><b>Jun 10</b></p> <p>Elevators; Friction; Forces in Horizontal Circular Motion</p> <p>5: 16,54 S 5:46 6: 8,14,25, P49</p>	<p><b>Q Jun 11</b></p> <p>Vertical Circular Motion; Scalar Product; Work; Kinetic Energy</p> <p>6: 38,44, P61,P70 7: 6,9,10</p>	<p><b>Q Jun 12</b></p> <p>Variable Forces; Springs; Conservative Forces</p> <p>7: 15,16,22, 26,28 S 7:22,26</p>	<p><b>Q Jun 13</b></p> <p>Power; Potential and Mechanical Energy; Energy Diagrams</p> <p>7: 22,36,38 8: 20,24, 26,36</p>
<p><b>Q Jun 16</b></p> <p>Vertical Springs; The Principle of Conservation of Energy</p> <p>8: 16,28,32, 42,57,58, 63</p>	<p><b>Jun 17</b></p> <p><b>TEST 2</b></p> <p>Chapters 5.8–8</p>	<p><b>Jun 18</b></p> <p>Center-of-Mass; Momentum and Impulse; Inelastic Collisions</p> <p>9: 4,14, 34,38 10: 10,26,34</p>	<p><b>Q Jun 19</b></p> <p>Elastic Collisions; 2D-Collisions; Rotational Kinematics</p> <p>10: 38,40 52,54 11: 4,14,32</p>	<p><b>Q Jun 20</b></p> <p>Rotational Inertia; Torque</p> <p>11: 40,48,54, 57,58, 64,66</p>
<p><b>Q Jun 23</b></p> <p>Statics; Angular Momentum</p> <p>12: 34 13: 12,20, 25,32 F 9:45,10:13</p>	<p><b>Q Jun 24</b></p> <p>Rolling</p> <p>12: 2,6,8, 10,11, 14,16</p>	<p><b>Jun 25</b></p> <p><b>TEST 3</b></p> <p>Chapters 9–12.4, 12.9, 13.1–4</p>	<p><b>Jun 26</b></p> <p><math>\tau</math> and L Generalized; Conservation of Angular Momentum</p> <p>12: 26,46,50, 54,56,59 F 9:50</p>	<p><b>Q Jun 27</b></p> <p>Universal Gravitation</p> <p>14: 16,23,32 34,36 G 1 S 12:41</p>
<p><b>Q Jun 30</b></p> <p>Orbits and Conservation Principles; Kepler's Laws</p> <p>14: 54,58,61 F 8:6 12:35,55 S 12:49</p>	<p><b>Q Jul 1</b></p> <p>Simple Harmonic Motion</p> <p>16: 32,34,38 40,48, 58,64</p>	<p><b>Q Jul 2</b></p> <p>Small Oscillations; Resonance</p> <p>16: 6,16,18, 20,25, 30,36</p>	<p><b>Jul 3</b></p> <p><b>TEST 4</b></p> <p>Chapters 12.5–10, 14,16</p>	<p><b>Jul 4</b></p> <p>Independence Day</p>

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

Problems with F,S,P,and G prefixes and additions to HRW problems (\*'s) are on the course web site.