

## Physics 4C- TENTATIVE SCHEDULE –Spring 2017

PHY 4C January 2017						
Week 1	16 <b>MLK Day</b>	17	18	19 Semester Begins	20 <b>Introduction Ch. 16 Waves</b>	
Week 2	23 <b>Ch. 16 Sinusoidal Waves</b>	24 <b>LAB 1 Resonant Air Column</b>	25 <b>Ch. 16 Sound - Intensity</b>	26	27 <b>Ch. 16 The Doppler effect</b>	

PHY 4C February 2017						
	Monday	Tuesday	Wednesday	Thursday	Friday	
Week 3	30 <b>Ch. 17 Interference</b>	31 <b>LAB 2 Standing Waves on a String</b>	1 <b>Ch. 17 Standing waves</b>	2	3 <b>Ch. 17 Problems</b>	
Week 4	6 <b>Exam 1</b>	7 <b>LAB 3 Harmonics &amp; Superposition Principle</b>	8 <b>Ch. 19 Work in ideal gas process</b>	9	10 Ms. Fatuzzo Gone	
Week 5	13 <b>Ch. 19 1<sup>st</sup> Law, work, heat</b>	14 <b>LAB 4 Electric Equivalent of Heat</b>	15 <b>Ch. 19 Specific Heats Calorimetry Specific heat of gases</b>	16	17 <b>Holiday</b>	
Week 6	20 <b>Holiday</b>	21 <b>LAB 5 Specific Heat of an Unknown Metal</b>	22 <b>Ch. 19 Heat Transfer</b>	23	24 <b>Ch. 20 Molecules, pressure and temperature</b>	

**PHY 4C March 2017**

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>	
Week 7	<b>27</b> <b>Ch. 20</b> <b>Equipartition Theory</b>	<b>28</b> <b>LAB 6</b> <i>Heat of Fusion of Water</i>	<b>1</b> <b>Ch. 20</b> <b>Thermal interactions</b>	<b>2</b>	<b>3</b> <b>Ch. 20</b> <b>problems</b>	
Week 8	<b>6</b> <b>Ch. 21</b> <b>Ideal gas engine/fridge</b>	<b>7</b> <b>LAB 7</b> <i>Efficiency of a Heat Engine</i>	<b>8</b> <b>Ch. 21</b> <b>Heat engines &amp; refrigerator</b>	<b>9</b>	<b>10</b> <b>Ch. 21</b> <b>Limits of Efficiency</b>	
Week 9	<b>13</b> <b>Ch. 21</b> <b>Problems</b>	<b>14</b> <b>LAB 8</b> <i>Plane and Cylindrical Mirrors</i>	<b>15</b> <b>Exam 2</b>	<b>16</b>	<b>17</b> <b>Ch. 33</b> <b>Interference of light</b>	
Week 10	<b>20</b> <b>Ch. 33</b> <b>Two slit interference</b>	<b>21</b> <b>LAB 9</b> <i>Interference/ Diffraction</i>	<b>22</b> <b>Ch. 33</b> <b>Diffraction grating</b>	<b>23</b>	<b>24</b> <b>Ch. 33</b> <b>Single Slit Diffraction</b>	
Week 11	<b>27</b> <b>Ch. 34</b> <b>Reflection and Refraction</b>	<b>28</b> <b>LAB 10</b> <i>Reflection/refraction</i>	<b>29</b> <b>Ch. 34</b> <b>Thin Lenses</b>	<b>30</b>	<b>31</b> <b>Holiday</b>	

**PHY 4C April 2017**

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>	
Week 12	<b>3</b> <b>Ch. 34</b> <b>Mirrors</b>	<b>4</b> <b>LAB 11</b> <i>Thin Lenses</i>	<b>5</b> <b>Ch. 35</b> <b>Lenses in combination</b>	<b>6</b>	<b>7</b> <b>Ch. 35</b> <b>Optical Instruments</b>	

	<b>10</b> Spring Break	<b>11</b> Spring Break	<b>12</b> Spring Break	<b>13</b> Spring Break	<b>14</b> Spring Break	
Week 13	<b>17</b> Ch. 35 Resolution	<b>18</b> <i>LAB 12</i> <i>Compound</i> <i>Microscope</i>	<b>19</b>	<b>20</b> Exam 3	<b>21</b> Overview of Quantum Mechanics	
Week 14	<b>24</b> Ch. 38 Photoelectric Effect	<b>25</b> <i>LAB 13</i> <i>Photoelectric</i> <i>Effect</i>	<b>26</b> Ch. 38 Photons Matter waves	<b>27</b>	<b>28</b> Ch. 38 Bohr's model of the H atom	

PHY 4C May 2017

	Monday	Tuesday	Wednesday	Thursday	Friday	
Week 15	<b>1</b> Ch. 38 Hydrogen Spectrum	<b>2</b> <i>LAB 14</i> <i>Atomic Spectra</i> <i>Part 1</i>	<b>3</b> Ch. 40 Schrödinger's Equation Particle in a rigid box	<b>4</b>	<b>5</b> Ch. 40 SHM Oscillator	
Week 16	<b>8</b> Ch. 40 More ideas conceptual	<b>9</b> <i>LAB 14</i> <i>Atomic Spectra</i> <i>Part 2</i>	<b>10</b> Exam 4	<b>11</b>	<b>12</b> Ch. 36 Relativity Time and space	
Week 17	<b>15</b> Ch. 36 Relativity Energy	<b>16</b> <i>LAB 15</i> <i>Solar Tracker</i>	<b>17</b> Ch. 36 Relativity Problems	<b>18</b>	<b>19</b> Relativity Problems	
Week 18	<b>22</b> Finals	<b>23</b> Finals	<b>24</b> Finals	<b>25</b> Finals	<b>26</b> Finals	