

**TENTATIVE Schedule: PHYS203 General Physics I (Calculus)**

**Fall 2009 Effective 8/20/2009**

<b><u>Dates</u></b>	<b><u>Topic and Chapter</u></b>
8/24 to 8/28  Chapter 1	Course Guidelines Observations on Learning Surveys Mathematics and Measurement Review
8/31 to 9/4  Chapter 2	Read SJ 2.1-2.4 Velocity and Acceleration Read SJ 2.5-2.6 Uniform Acceleration and Graphing Motion Read SJ 2.7 Freely Falling Objects  <b>Lab 1: FCI, Measurement and Linear Analysis</b>
9/7 to 9/11	Read SJ 1.7-1.9 Vectors Read SJ 3.1, 3.2 Two Dimensional Motion, Superposition of two perpendicular motions.  <b>Lab 2: Position and Acceleration of a Uniformly Accelerating Object.</b>
9/14 to 9/18  Chapter 3	Read SJ 3.3 Read SJ 3.4-3.6 Uniform Circular Motion  <b>Lab 3: Projectile Motion</b>
9/21 to 9/25  Chapter 3	Read SJ 4.1-4.4 Newton's 2 <sup>nd</sup> Law Read SJ 4.5, 4.6 Weight, Newton's 3 <sup>rd</sup> Law  <b>Lab Period: Q&amp;A</b> <b>Friday: Exam I</b>

9/28 to 10/2 Chapter 4	No Class 9/28, No Lab 9/29 Read SJ 4.7 Applying Newton's Laws One Dimension, Free Body Diagrams
10/5 to 10/9 Chapter 4	Read SJ 4.7 Applying Newton's Laws Two Dimension, Free Body Diagrams Read SJ 5.1 Friction <b>Lab 4: Newton's 2<sup>nd</sup> Law, Constant Acceleration</b>
10/12 to 10/16 Chapter 5	Read SJ 5.2, 5.3 Applying Newton's Laws to Uniform Circular Motion and Non Uniform Circular Motion Read SJ 5.5 Fundamental Forces Read SJ 5.4, 5.6 Resistive Forces <b>Lab 5: Atwood's Machine FORMAL LAB</b>
10/19 to 10/23 Chapter 6	Read SJ 6.1-6.4 Work (Dot Product) Read SJ 6.5, 6.6 Work Energy <b>Lab Period: Q&amp;A</b> <b>Friday: Exam II</b>
10/26 to 10/30 Chapters 6 & 7	Read SJ 6.7, 6.8 Friction, Power Read SJ 7.1, 7.2 Potential Energy and Energy Conservation in Closed Systems <b>Lab 6: Friction</b>
11/2 to 11/6 Chapter 7	Read SJ 7.3 Work-Energy with Conservative and Non-Conservative Forces Read SJ 7.4, 7.6, 7.7 Conservative Forces, Potential Energy, Energy Diagrams (Oscillators, Gravity, Atoms and Molecules) <b>Lab 7: Video Point Energy Analysis</b>

11/9 to 11/13 Chapter 8	Read SJ 8.1, 8.2 Impulse and Momentum, Momentum Conservation in Isolated Systems Read SJ 8.3, 8.4 Collisions  <b>Lab 8: Collisions in One Dimension</b>
11/16 to 11/20 Chapter 10	Read SJ 8.5-8.7 Systems of Particles Read SJ 10.1-10.3 Rotational and Translational Quantities Read SJ 10.4-10.5 Rotational Energy, Moment of Inertia, Torque  <b>Lab Period: Q&amp;A</b> <b>Wednesday: Exam III</b>
11/23 to 11/27	<b>Thanksgiving Break, No Classes</b>
11/30 to 12/4 Chapter 10	Read SJ 10.6, 10.7 Work Energy in Rotational Motion Read SJ 10.8-10.10 Angular Momentum and Conservation of Angular Momentum  <b>Lab 9: Collisions in Two Dimensions</b>
12/7 to 12/11 Chapter 11	<b>12/9 Monday Schedule, 12/10 Tuesday Schedule</b>  Read SJ 10.11 Rolling Motion  <b>Lab 10: Rotational Motion in the SDC</b>  <b>Lab Periods on 12/9 and 12/10: Q&amp;A Exam Review</b>
12/14 to 12/18	<b>Final Exam Wednesday December 16, 2009 2:00 PM</b>

**Lab 4: Acceleration Due to Gravity**