

## PHYSICS 105 TEXT READING ASSIGNMENTS and RECITATION PROBLEMS

Lecture	Subject	Reading Assignment	Recitation Problems
<i>Sept 4- Sept 7</i>			
1	Introduction.	B1, Ch.1	B1: 3, 4, 9, 12, 15, 21, 24, 31, 35, 39
<i>Sept 10- Sept 14</i>			
2	Motion in One Dimension.	B1, Ch. 2	B1: 5, 17, 21, 29, 35, 39,47,51,57
<i>Sept 17 – Sept 21</i>			
3	Vectors	B1, Ch. 3, S. 1-3	B1: 5, 11, 17, 19, 24, 27, 33, 39, 55
<i>Sept 24 – Sept 28</i>			
4	Projectile Motion Relative Velocity	B1, Ch 3, S. 4-5, B1	B1: 5, 8, 12, 13, 19, 21, 28, 30
<i>Oct 1 – Oct 5</i>			
5	The Laws of Motion	B1, Ch. 4, S. 1-4	B1: 11, 14, 23, 27, 34
<b>Common Exam 1:</b> Fri, October 5th (Chapters 1 – 4)			
<i>Oct 8 – Oct 12</i>			
6	Applications of Newton's Forces of Friction.	B1, Ch 4, S. 5-6	B1: 37, 45, 30, 57, 63, 77
<i>Oct 15 – Oct 19</i>			
7	Circular Motion Centripetal Forces	B2, Ch. 6, S. 1-2	B2: 1, 5, 6, 8, 9, 13, 14, 15,17
<i>Oct 22 – Oct 26</i>			
8	Other Applications of Newton's Laws	B2, Ch. 6, S. 3-4	B2: 21, 23, 43, 44, 50, 52, 53, 55,61
<i>Oct 29 – Nov 2</i>			
9	Work. Kinetic Energy & The Work-Energy Theorem. The Scalar Product of Two Vectors.	B1, Ch. 5, S. 1-2 B2, Ch. 7, S. 3	B1: 1, 7, 8, 9, 12, 17, 18 B2: 2, 3, 6, 7, 8, 9
<b>Common Exam 2:</b> Fri, November 2nd (B1: Ch. 4 ; B2: Ch. 6)			
<i>Nov 5 – Nov 9</i>			
10	Gravitational Energy	B1, Ch. 5, S. 3-4	B1: 19,23,24

	Spring Potential Energy. Potential Energy.	B2, Ch. 7, S. 6	B2: 17, 18, 20, 21, 50, 54, 55, 59, 63
<i>Nov 12 – Nov 16</i>			
11	Systems & Energy Conservation	B1, Ch.5, S. 6 B2, Ch. 8, S.1-4	B1: 28, 31, 32, 32, 33, 34, 35, 45 B2: 3, 7, 8, 13, 15, 17

**Common Exam 3:** Fri, Nov 21 (B1: Ch.5, B2: Ch. 7 & 8)

<i>Nov 19 – Nov 23</i>			
12	Power Work done by a Varying Force	B1, Ch. 5, S. 6 B2, Ch. 8, S. 5	B1: 48, 51, 54, 55, 56, 57 B2: 28, 29, 30, 32, 34, 37, 38, 43, 44, 45

*Thanksgiving Recess Nov. 22-25 No Classes Scheduled*

<i>Nov 26 – Nov 30</i>			
13	Collisions and Impulse Conservation of Momentum.	B2, Ch. 9, S. 1-3 B1, Ch. 6, S.1-4	B1: 1,4,5,7, 8,10,15,16,18,19,25 B2: 1, 2, 4, 6, 13, 14, 15, 20, 21

<i>Dec 3 – Dec 7</i>			
14	Collisions in Two Dimensions. Center of Mass. Motion of a System Of Particles.	B2, Ch. 9, S. 4-6	B1: 26, 27, 28, 30, 37, 45, 50 B2: 27, 28, 31, 35, 36, 37, 41, 42, 44, 67

<i>Dec 10 – Dec 14</i>		<i>Note: Mon, Dec 12 is the Last Day of class;</i>
15	Review for Final	<i>Dec 13 - Reading Day</i>

*Dec 14 - Dec 20* Final Exam (Comprehensive); date TBA