

## Tentative Schedule and Syllabus 01/08/15

## Physics 8A Sec. 1

Fajans

Week #	Dates	Exam	Lecture	Discussion/Lab Sections	Reading	Homework
1	Jan 20-23		Intro/1-D Kinematics	W: Math Review W: 1D Motion A	Ch. 1, 2	Intro to Mastering Physics
2	Jan 26-30		1 & 2-D Kinematics Projectile Motion	W: 1D Motion B WL: Acceleration	Ch. 3	1-D Kinematics
3	Feb 2-6		Projectile Motion Newton's Laws	W: Projectile Motion L: Analyze Projectile Motion	Ch. 4	2-D Kinematics Projectile Motion
4	Feb 9-13		Newton's Laws Friction	W: Newton's 1 <sup>st</sup> and 2 <sup>nd</sup> Laws W: Newton's 3 <sup>rd</sup> Law	Ch. 5	Newton's Laws Dynamics
5	Feb 17-20		Impulse and Momentum	W: Momentum and Collisions W: Center of Mass	Ch. 9	Friction Impulse
6	Feb 23-27		Energy, Work, and Power	L: Analyze Ball Toss (Forces and Work), W: Work and Energy	Ch. 6.7-7.3 Ch. 7.4 (skip Ch. 8)	Momentum Energy
7	Mar 2-6	Wed Mar 4 Midterm I 7:00-9:00pm	Collisions, Circular Motion	Review for Midterm	Ch. 7.4 Ch. 10.4	Work Power
8	Mar 9-13		Torques Rotational Dynamics	L: Analysis of Walking and Running W: Conservation	Ch. 12.	Conservation
9	Mar 16-20		Rotational Dynamics Statics	W: Circular Motion W: Rotation	Ch. 12	Torques Rotational Dynamics
	Mar 23-27	Spring Recess				
10	Mar 30-Apr 3		Fluids	L: Rotation/Statics of Arm W: Statics	Ch. 15	Statics
11	Apr 6-10	Wed Apr 8 Midterm II 7:00-9:00pm	Oscillations Waves	Midterm Review W: Oscillations	Ch. 13, 14	Fluids
12	Apr 13-17		Waves Heat	W: Waves and Sound L: Fluids	Ch. 13, 14	Oscillations Waves

13	Apr 20-24		Heat Ideal Gas Law Laws of Thermodynamics	L: Sound W: Thermodynamics	Ch. 16, 17, 18	Heat Ideal Gas Law
14	Apr 27- May 1		Laws of Thermodynamics Entropy and Heat Engines	L: Ideal Gas Law W: Heat Engines and Fridges	Ch. 19	Thermodynamics
15	May 4-8	Reading/Review/Recitation				

May 13 Final 7-10pm