Physics 105 Course Schedule

Cycle	*Day*	*Date*	*Text*	*Topics*	*Tests*	*Labs*
1	2	Thu 8/27	1.1 – 1.9	Fundamentals, Units, Estimation, Trigonometry		No Lab
	4	Mon 8/31	2.1 – 2.3	Displacement, Velocity, Acceleration		
	6	Wed 9/2	2.4 – 2.6	Equations of Motion, Free Fall		
2	2	Fri 9/4	3.1 – 3.3	Vectors, Displacement, Velocity, Acceleration	Quiz 1	Uncertainties
	4	Wed 9/9	3.4	Projectile Motion		
	6	Fri 9/11	3.5	Relative Velocity		
3	2	Tue 9/15	4.1 – 4.4	Newton's Laws	Quiz 2	Data Analysis
	4	Thu 9/17	4.5	Applying Newton's Laws		
	6	Mon 9/21	4.6	Friction		
4	**2**	**Wed 9/23**	**1.1 – 4.6**	**Kinematics and Newton's Laws**	**Test 1**	Acceleration of Gravity
	4	Fri 9/25	5.1 – 5.3	Work, Kinetic Energy, Gravitational Potential Energy		
	6	Tue 9/29	5.4 – 5.7	Spring Potential Energy, Systems, Power, Varying Force		
5	2	Thu 10/1	6.1 – 6.2	Impulse and Momentum (Short Class)	Quiz 3	No Lab
	4	Mon 10/5	6.3 – 6.5	Collisions; Rocket Propulsion		
	6	**Wed 10/7**	**5.1 – 6.5**	**Work, Energy, and Momentum**	**Test 2**	
Thu 10/8 – Fri 10/9				**Free Days**		
6	2	Tue 10/13	7.1 – 7.3	Circular Motion		Kinetic Friction
	4	Thu 10/15	7.4 – 7.6	Gravitation	Quiz 4	
	6	Mon 10/19	8.1 – 8.4	Torque, Equilibrium, Center of Gravity		
7	2	Wed 10/21	8.5 – 8.7	Rotational Inertia, Energy, and Momentum		Ballistic Pendulum
	4	**Fri 10/23**	**7.1 – 8.7**	**Rotation and Gravitation**	**Test 3**	
	6	Tue 10/27	9.1 – 9.3	Solids and Fluids		
8	2	Thu 10/29	9.4 – 9.6	Fluids at Rest		Rotational Motion
	4	Mon 11/2	9.7 – 9.8	Laminar Fluid Flow		
	6	Wed 11/4	9.9 – 9.10	Surface Tension, Viscous Flow, Transport Phenomena	Quiz 5	
9	2	Fri 11/6	10.1 – 10.3	Temperature, Thermal Expansion		Archimedes' Principle
	4	Tue 11/10	10.4 – 10.5	Ideal Gases, Kinetic Theory of Gases		
	6	**Thu 11/12**	**9.1 – 10.5**	**Solids, Fluids, and Thermal Physics**	**Test 4**	
10	2	Mon 11/16	11.1 – 11.4	Heat, Calorimetry, Phase Changes		Gas Behavior
	4	Wed 11/18	11.5 – 11.6	Energy Transfer; Global Warming & Greenhouse Gases*		
	6	Fri 11/20	12.1 – 12.2	Work, First Law of Thermodynamics	Quiz 6	
11	2	Tue 11/24	12.3 – 12.4	Thermal Processes, Second Law of Thermodynamics		No Lab
	Wed 11/25 – Fri 11/27			**Thanksgiving Recess**		
	4	Tue 12/1	12.5 – 12.6	Entropy; Human Metabolism*		
	6	**Thu 12/3**	**11.1 – 12.6**	**Thermal Energy and Thermodynamics**	**Test 5**	
12	2	Mon 12/7	13.1 – 13.3	Hooke's Law, Energy, Simple Harmonic Motion		Assessment Exam on the Web
	4	Wed 12/9	13.4 – 13.6	Describing Oscillators, Pendula, Damped Oscillations		
	6	Fri 12/11	13.7 – 13.11	Waves	Quiz 7	
Exam Week	Mon 12/14		Study Day			
	Wed 12/16		**10:30-12:30**	**Section 03A (11:20 class period)**	**Final Exam**	
	Thu 12/17		**8:00-10:00**	**Section 04A (1:00 class period)**	**Final Exam**	

*Time permitting