

PHYS-170A (HONORS) Spring-16---MORSE---COURSE OUTLINE---version 1.3 (01/14/16) Under Construction

week	day	2016 Date	Lec #	Reading due	Lecture	Mastering Physics problem set assigned	HW due
1	Mon	Jan 11	#1	1.1-6	Units, Standards	#1: Chap. 1, Units; Chap. 2, 1-d motion	
	Tues	Jan 12	#2	1.7-10	Vectors, Vector Components		
	Wed	Jan 13	#3	notes	Mathematics, Useful Theorems		
	Fri	Jan 15	#4	2.1-3	1-Dimensional Motion		
2	Mon	Jan 18	***		Martin Luther King Holiday		
	Tues	Jan 19	***	hw #0,#1	HW #0, #1	#2: Chap 2; Chap3, 2, 3-d motion.	#1
	Wed	Jan 20	#5	2.4-6	Constant Acceleration--Gravational Forces		
	Fri	Jan 22	#6	3.1-3	2 and 3-Dimensional Motion		
3	Mon	Jan 25	#7	3.4-5	Circular Motion	#3: Chap 4, Newton's Laws	
	Tues	Jan 26	***	hw#2	HW #2		#2
	Wed	Jan 27	#8	4.1-3	Forces, Newton's Laws		
	Fri	Jan 29	#9	4.4-6	Mass and Weight		
4	Mon	Feb 01	#10	5.1-2	Newton's 1st and 2nd Laws	#4: Chap 5, Applying Newton's Laws; Chap 6, Work, Energy	
	Tues	Feb 02	***	hw#3	HW#3		#3
	Wed	Feb 03	#11	5.3-5	Friction Forces, Circular Motion		
	Fri	Feb 05	#12	6.1-2	Work, and Energy		
5	Mon	Feb 08	#13	6.3-4	Kinetic Energy	#5: Chap 6, Kinetic Energy; Chap. 7, Potential Energy	
	Tues	Feb 09	***	hw #4	HW #4		#4
	Wed	Feb 10	#14	7.1-2	Gravitational Potential, Potentials		
	Fri	Feb 12	#15	7.3-5	Forces and Potential Energy	End of material for Exam-I, Lec 1-15. HW #1-5, Chap. 1-7	
6	Mon	Feb 15			Presidents Day Holiday		
	Tues	Feb 16	#16	8.1-3	HW #5, Momentum and Impulse	#6: Chap 8, Momentum; Chap. 9, Angular Moementum	#5
	Wed	Feb 17	#17	8.4-6	Elastic Collisions, Center of Mass		
	Fri	Feb 19	#18	9.1-3	Angular Velocities and Accelerations		
7	Mon	Feb 22	#19	9.4-6	Rotational Energy	#7: Chap. 9; Chap 10, Torque, Work	
	Tues	Feb 23	***	exam-1	Exam -I	Covers: Chap. 1-7, Lec 1-15, HW #1-5	
	Wed	Feb 24	#20	10.1-3	Torques, Force Moments, Angular Accel.		
	Fri	Feb 26	#21	10.4-5	Work, Energy, Rotational Motion		#6
8	Mon	Feb 29	#22	10.6-7	Angular Momentum	#8: Chap. 10; Chap. 11 Equilibrium, Statics	
	Tues	Mar 01	***	hw#6,7	HW #6,7		#7
	Wed	Mar 02	#23	11.1-3	Equilibrium, Center of Gravity		
	Fri	Mar 04	#24	11.4-5	Stress and Strain, Elasticity		
9	Mon	Mar 07	#25	14.1-3	Simple Harmonic Motion (SHM)	#9: Chap 14, Periodic Motion, Oscillators	
	Tues	Mar 08	***	hw #7,8	HW #7,8		#8
	Wed	Mar 09	#26	14.4-6	Energy in SHM Oscillators		
	Fri	Mar 11	#27,27a, 27b	14.7-8	Damped Oscillators, Shock Absorbers		

