		ATIVE SCHEDULE FOR PHYSICS 410, Fall	2013		
•	Mtg.#	Reading Assignment	Торіс	HW Due	Exams
9/3	1	1: Newton's Laws of Motion	Introduction, conceptual review of mechanics		
9/5	2	1	Math review, vector equations etc., Drag Forces	#0	
			· · · · · ·		
9/10	3	2: Projectiles and Charged Particles	Drag, Analytical solutions for projectile motion		
9/12	4	2		#1	
9/17	5	3: Momentum and Angular Momentum	Rockets, angular momentum, moment of inertia		
9/19	6	4: Energy	Impulse, work, kientic, and potential energy	#2	
9/24	7	4	Energy conservation and applications, damped oscillators		
9/26	8	5: Oscillations		#3	
10/1	9	9: Mechanics in Noninertial Frames	Apparent forces in accelerating and rotating frames		
10/3	10	9		#4	
	-	-			
10/8	11	6: Calculus of Variations	Euler-Lagrange equation. The brachistochrone		
				#5	
10/15	13	7	More applications of Lagrange's equations / Review		
					EXAM #1
•, • •		, .	onuproro : c, c (. cug, y)		
10/22	15	7	Lagrangian Problem Solving, Constraints and conservation laws		
		•		#6	
0/24	10		Equivaliner one dimensional problem, conservation of ang. morn.	110	
10/29	17	8 14	All about orbits: Impact parameter and scattering angle		
				#7	
10/01	10		Total and differential cross sections, realising		
11/5	19	13: Hamiltonian Mechanics	Hamilton's equations		
				#8	
	20	10		110	
11/12	21	10: Potational Motion of Pigid Bodies	Total angular momentum: rotation about a fixed axis		
				#Q	
	22	10		#3	
	23	11: Coupled Oscillators and Normal Modes	Linear examples: coupled modes / Review		
					EXAM #2
11/21	24	1-0, 13-14	onapters /-0, 10, 13-14		
11/26	25	11	The double pendulum and other examples		
	20				
		I TANKOGI VING			
	26	12: Nonlinear Dynamics and Chase	Dariad daubling: abaaa		
				#10	
	21	12; 15: Special Relativity	State-space orbits and Poincare sections; Postualtes; time dilation; le	#10	
	00	45	Deletivistic mean at the and a second		
12/12	29	15	Relativistic Dynamics, Review and discussion	#11	
12/17	30	Comprehensive Change 1 through 15			FINAL EXA
	9/3 9/5 9/10 9/12 9/17 9/17 9/17 9/17 9/17 9/17 10/3 10/3 10/3 10/3 10/3 0/10 10/15 0/17 0/22 0/24 0/29 0/24 10/29 0/24 11/5 11/7 11/7 11/12 11/12 11/12 11/12 11/26 11/28 12/3 12/5	9/3 1   9/3 1   9/5 2   9/10 3   9/12 4   9/17 5   9/19 6   9/19 6   9/19 6   9/19 6   9/19 6   9/19 6   9/10 3   9/12 7   9/24 7   9/25 8   10/1 9   10/3 10   10/10 12   10/15 13   10/17 14   10/22 15   10/24 16   10/25 13   10/26 15   10/27 14   10/28 12   11/15 19   11/17 20   11/17 21   11/12 21   11/12 21   11/12 24   11/12 25   11/28 27   12/3 26<	9/3   1   1: Newton's Laws of Motion     9/3   2   1     9/10   3   2: Projectiles and Charged Particles     9/12   4   2     9/17   5   3: Momentum and Angular Momentum     9/17   5   3: Momentum and Angular Momentum     9/19   6   4: Energy     9/24   7   4     9/26   8   5: Oscillations     10/1   9   9: Mechanics in Noninertial Frames     10/3   10   9     10/3   10   9     10/19   9: Mechanics in Noninertial Frames     10/3   10   9     10/3   11   6: Calculus of Variations     10/10   12   7: Lagrange's Equations     10/12   13   7     10/17   14   1-6, 9     10/12   15   7     10/21   16   8: Two-Body Central Force Problems     10/29   17   8, 14     10/31   18   14: Collision Theory	Image: space of the second s	Image: Second