

Tentative schedule - Check course website for updates.				
Physics 410 - Spring 2016 - Prof. Hall				
Week	Date	Lecture Topics	Suggested reading: (Taylor)	Homework Due
1	26-Jan	Introduction	Ch. 1	
	28-Jan	Newton's Laws	Ch. 1	
	29-Jan	Projectiles and drag	Ch. 2	
2	2-Feb	Charged particles (guest lecture)	Ch. 2	
	4-Feb	Momentum	Ch. 3	1
	5-Feb	Work-Energy Theorem	Ch. 4	
3	9-Feb	1D potentials (guest lecture)	Ch. 4	
	11-Feb	1D oscillations	Ch. 5	2
	12-Feb	1D oscillations	Ch. 5	
4	16-Feb	Exam 1 review		
	18-Feb	Exam 1		
	19-Feb	Lagrangian Mechanics	Ch. 7	
5	23-Feb	Lagrangian Mechanics	Ch. 7	
	25-Feb	Lagrangian Mechanics	Ch. 7	3
	26-Feb	Hamilton's Principle & Calculus of Variations	Ch. 6	
6	1-Mar	Hamilton's Principle & Calculus of Variations	Ch. 6	
	3-Mar	Hamilton's Principle & Calculus of Variations	Ch. 6	4
	4-Mar	Hamiltonian Mechanics	Ch. 13	
7	8-Mar	Hamiltonian Mechanics	Ch. 13	
	10-Mar	Rutherford Scattering	Ch. 14	5
	11-Mar	Rutherford Scattering	Ch. 14	
		Spring Break		
8	22-Mar	Exam 2 review		
	24-Mar	Exam 2		
	25-Mar	Central Force Motion	Ch. 8	
9	29-Mar	Central Force Motion	Ch. 8	
	31-Mar	Central Force Motion	Ch. 8	6
	1-Apr	Special relativity	Ch. 15	
10	5-Apr	Special relativity	Ch. 15	
	7-Apr	Special relativity	Ch. 15	7
	8-Apr	Special relativity	Ch. 15	
11	12-Apr	Special relativity	Ch. 15	
	14-Apr	Special relativity	Ch. 15	8
	15-Apr	Rigid Body Kinematics	Ch. 10	
12	19-Apr	Rigid Body Kinematics	Ch. 10	
	21-Apr	Rigid Body Kinematics	Ch. 10	9
	22-Apr	Exam 3 review		
13	26-Apr	Special lecture		
	28-Apr	Exam 3	Ch. 10	
	29-Apr	Rigid Body Dynamics	Ch. 10	
14	3-May	Rigid Body Dynamics	Ch. 10	
	5-May	Non-inertial frames	Ch. 9	
	6-May	Non-inertial frames	Ch. 9	
15	10-May	Final exam review		10
	12-May	Final Exam - 8:00 am - 10:00 am		