PY408 Fall 2019 Course Schedule

Class	Date	Topic	Taylor Chapter
1	Tu, 9/3	Review: Newton's laws, projectile motion	Ch 1,2
2	Th, 9/5	Review: Momentum, energy	Ch 3,4
3	Tu, 9/10	Linear oscillations	Ch 5
4	Th, 9/12	Linear oscillations	Ch 5
5	Tu, 9/17	Parametric driving, non-linear mechanics	Ch 12
6	Th, 9/19	Chaos, period doubling, Poincare sections	Ch 12
7	Tu, 9/24	Calculus of Variations	Ch 6
8	Th, 9/26	Least action principle	Ch 7, Feynman lectures Vol 2
9	Tu, 10/1	Lagrangian mechanics	Ch 7
10	Th, 10/3	**Midterm 1**	
11	Tu, 10/8	Conservation laws, Magnetic forces	
12	Th, 10/10	Central Force Motion	Ch 8
	Tu, 10/15	Central Force Motion	Ch 8
13	Th, 10/17	Monday schedule	
14	Tu, 10/22	Collision theory	Ch 14
15	Th, 10/24	Collision theory	Ch 14
16	Tu, 10/29	Non-inertial reference frames	Ch 9
17	Th, 10/31	Rigid body motion	Ch 10
18	Tu, 11/5	Rigid body motion	Ch 10
19	Th, 11/7	**Midterm 2**	
20	Tu, 11/12	Coupled oscillators	Ch 11
21	Th, 11/14	Coupled oscillators	Ch 11
22	Tu, 11/19	Continuum mechanics	Ch 16
23	Th, 11/21	Continuum mechanics	Ch 16

24	Tu, 11/26	Continuum mechanics	Ch 16
	Th, 11/28	Thanksgiving recess	
25	Tu, 12/3	Hamiltonian mechanics	Ch 13
26	Th, 12/5	Hamiltonian mechanics	Ch 13
27	Tu, 12/10	Review, make-up etc.	