PHYS 6310 Syllabus

Fall 2014 v1

Session #	Date	Text Chapters (sections)	Topic	Homework Due
1	Sept. 8 Mon	1	Introduction	
2	Sept. 10 Wed	2(1-5)	One Dimensional Motion	
3	Sept. 12 Fri	2(6-9)	Free Fall	
4	Sept. 15 Mon	3(1-5)	Vectors, 2D&3D Motion	
5	Sept. 17 Wed	3(6-9)	Projectile Motion	HW1
6	Sept. 19 Fri	4(1-5)	Forces	
7	Sept. 22 Mon	4(6-8)	Kinds of Forces	
8	Sept. 24 Wed	5(1)	More Forces	HW2
9	Sept. 26 Fri	5(2-4)	Circular Motion	
10	Sept. 29 Mon	5(5-6)	Drag Forces	
11	Oct. 1 Wed	6(1-5)	Universal Gravitation	HW3
12	Oct. 3 Fri	6(6-8)	Gravitation Applications	
13	Oct. 6 Mon	7(1-3)	Work	
14	Oct. 8 Wed	7(4)	Kinetic Energy	HW4
15	Oct. 10 Fri	8(1-4)	Conservative Forces	
16	Oct. 13 Mon	8(5-9)	Consevation of Energy	
	Oct. 15 Wed	**Exam 1**	**Chs. 1-7**	HW5
17	Oct. 17 Fri	9(1-3)	Linear Momentum	
18	Oct. 20 Mon	9(5-10)	Collisions & Center of Mass	
19	Oct. 22 Wed	10(1-3)	Rotational Motion	HW6
20	Oct. 24 Fri	10(4-6)	Torque & Rotational Inertia	
21	Oct. 27 Mon	10(7-10)	Rotational Dynamics	
22	Oct. 29 Wed	11(1-3)	Angular Momentum	HW7
23	Oct. 31 Fri	11(4-6)	Angular Momentum Systems	
24	Nov. 3 Mon	11(7-8)	Gyroscopes	
25	Nov. 5 Wed	12(1-4)	Equilibrium	HW8
26	Nov. 7 Fri	12(4-7)	Structure Strength	
27	Nov. 10 Mon	13(1-6)	Fluids & Pressure	
28	Nov. 12 Wed	13(5-8)	Buoyancy & Archimedes Principle	HW9
29	Nov. 14 Fri	13(9-14)	Bernoulli Principle	
30	Nov. 17 Mon	14(1-4)	Simple Harmonic Motion	
31	Nov. 19 Wed	14(5-8)	Pendulum	HW10
32	Nov. 21 Fri	17(1-4)	Thermal Systems & Temperature	

33	Nov. 24 Mon	17(4-10)	Ideal Gas Law	
34	Nov. 26 Wed	18(1-7)	Kinetic Theory of Gases	HW11
	Nov. 28 Fri		Thanksgiving holiday	
35	Dec. 1 Mon	19(1-6)	Heat and Energy	
	Dec. 3 Wed	**Exam 2**	**Chs. 8-14, 17**	HW12
36	Dec. 5 Fri	19(7-8)	Thermodynamic Processes	
37	Dec. 8 Mon	19(9-10)	Heat Transfer	
38	Dec. 10 Wed	20(1-4)	2nd Law of Thermodynamics	HW13
39	Dec. 12 Fri	20(5-11)	Entropy	
	Dec. 15-16 Mon, Tue	all	Final Exam	