

# PHYS 6310 Syllabus

Spring 2016

version 2

Session #	Date	Chapters (sections)	Topic	Homework Due
1	Jan 25 Mon	1	Introduction	
2	Jan 27 Wed	2(1-5)	One Dimensional Motion	
3	Jan 29 Fri	2(6-9)	Free Fall	
4	Feb 1 Mon	3(1-5)	Vectors, 2D&3D Motion	HW1
5	Feb 3 Wed	3(6-9)	Projectile Motion	
6	Feb 5 Fri	4(1-5)	Forces	
7	Feb 8 Mon	4(6-8)	Kinds of Forces	HW2
8	Feb 10 Wed	5(1)	More Forces	
9	Feb 12 Fri	5(2-4)	Circular Motion	
10	Feb 15 Mon	5(5-6)	Drag Forces	HW3
11	Feb 17 Wed	6(1-5)	Universal Gravitation	
12	Feb 19 Fri	6(6-8)	Gravitation Applications	
13	Feb 22 Mon	7(1-3)	Work	HW4
14	Feb 24 Wed	7(4)	Kinetic Energy	
15	Feb 26 Fri	8(1-4)	Conservative Forces	
16	Feb 29 Mon	8(5-9)	Consevation of Energy	HW5
	Mar 2 Wed	<b>Exam 1</b>	<b>Chs. 1-7</b>	
17	Mar 4 Fri	9(1-3)	Linear Momentum	
18	Mar 7 Mon	9(5-10)	Collisions & Center of Mass	HW6
19	Mar 9 Wed	10(1-3)	Rotational Motion	
20	Mar 11 Fri	10(4-6)	Torque & Rotational Inertia	
21	Mar 14 Mon	10(7-10)	Rotational Dynamics	HW7
22	Mar 16 Wed	11(1-3)	Angular Momentum	
23	Mar 18 Fri	11(4-6)	Angular Momentum Systems	
24	Mar 21 Mon	11(7-8)	Gyroscopes	HW8
25	Mar 23 Wed	12(1-4)	Equilibrium	
26	Mar 25 Fri	12(4-7)	Structure Strength	
27	Mar 28 Mon	13(1-6)	Fluids & Pressure	HW9
28	Mar 30 Wed	13(5-8)	Buoyancy & Archimedes Principle	
29	Apr 1 Fri	13(9-14)	Bernoulli Principle	
30	Apr 4 Mon	14(1-4)	Simple Harmonic Motion	HW10
31	Apr 6 Wed	14(5-8)	Pendulum	
32	Apr 8 Fri	17(1-4)	Thermal Systems & Temperature	
33	Apr 11 Mon	17(4-10)	Ideal Gas Law	HW11
34	Apr 13 Wed	18(1-7)	Kinetic Theory of Gases	

	Apr 15 Fri		Thanksgiving holiday	
35	Apr 18 Mon	19(1-6)	Heat and Energy	HW12
	Apr 20 Wed	<b>Exam 2</b>	<b>Chs. 8-14, 17</b>	
36	Apr 22 Fri	19(7-8)	Thermodynamic Processes	
37	Apr 25 Mon	19(9-10)	Heat Transfer	HW13
38	Apr 27 Wed	20(1-4)	2nd Law of Thermodynamics	
39	Apr 29 Fri	20(5-11)	Entropy	
	May 5,6	all	Final Exam	

Monday, Jan. 25, 2016 is first day of classes.

Tuesday, May 3, 2016, is last day of classes