

PHYS 1303 - sec 0011 SYLLABUS

S. Dalley

Introductory Mechanics

Summer 2014

Text: Fundamentals Of Physics, by Halliday, Resnick, Walker, Vol1, 9th edition

Objectives: Upon successful completion of this course, students will be able to:

- 1) demonstrate basic facility with the methods and approaches of scientific inquiry and problem-solving
- 2) explain how the concepts and findings of physics shape our world
- 3) develop quantitative models as related to the course subject matter
- 4) apply symbolic systems of representation
- 5) formulate structured and logical arguments

Date	Lecture	Read Chapters	Quiz	Homework
			10am	beg. class
Mo 6/2	Measurement	1.1 - 1.7	1	
Tu 6/3	Straight Line Motion	2.1 - 2.8	2, 3	1.3,1.12,
We 6/4	Straight Line Motion Vectors	2.9 - 2.10 3.1 - 3.6	4 5	2.2,2.4, 2.25,2.28
Th 6/5	Motion in Two and Three Dimensions	4.1 - 4.6	6, 7	2.44,2.46, 3.12,3.16
Fr 6/6	Motion in Two and Three Dimensions	4.7 - 4.9	8	4.3,4.11, 4.22,4.41
Mo 6/9	Review TEST ONE	1.1 - 4.6		4.58,4.76
Tu 6/10	Force and Motion	5.1 - 5.9	9, 10	4.58,4.76
We 6/11	Force and Motion	6.1 - 6.5	11, 12	5.14,5.20 5.51,5.34,
Th 6/12	Kinetic Energy, Work, Power	7.1 - 7.9	13, 14	6.10,6.36 6.49,6.57
Fr 6/13	Potential Energy, Conservation of Energy	8.1 - 8.6	15, 16	7.11,7.20 7.39,7.46
Mo 6/16	Review TEST TWO	4.7 - 7.9		8.04,8.107 8.9,8.19
Tu 6/17	Center of Mass Vector Product	9.1 - 9.3 3.8	17	8.04,8.107 8.9,8.19
We 6/18	Linear Momentum	9.4 - 9.11	18, 19	9.2,9.12 3.63
Th 6/19	Rotational Motion	10.1- 10.5	20	9.25,9.40 9.49,9.74,
Fr 6/20	Rotational Energy, Moment of Inertia, Torque	10.6 -10.10	21, 22	10.2,10.11 10.22,10.24
Mo 6/23	Review TEST THREE	8.1 - 10.5		10.39 10.48,10.53
Tu 6/24	Angular Momentum	11.6 - 11.11	23	10.39 10.48,10.53

We 6/25	Equilibrium	12.1 - 12.5	24	11.22, 11.31 11.50,11.35
Th 6/26	Gravitation	13.1 - 13.8	25, 26	12.4,12.7 12.14
Fr 6/27	Oscillations	15.1 - 15.9	29, 30	13.21,13.8, 13.33
Mo 6/30	Review			15.11,15.33
	TEST FOUR	<i>10.6 - 13.8</i>		15.42,15.58
Tu 7/1	FINAL EXAM	<i>All of above</i>		