PHYS 1303 - sec 0011 SYLLABUS					Course Objectives: Students will be able to:
	Introductory Mecha	nics		1) demonstrate basic facility with the methods of scientific inquiry	
Text: Fundamentals Of Physics				and problem-solving 2) explain how the concepts and findings of physics shape our world	
	by Halliday, Resnick, Walker, S. Dalley			S. Dalley	3) develop quantitative models as related to the course subject matter
10th edition			Summer 2016		4) apply symbolic systems of representation
					5) formulate structured and logical arguments
Date	Class	Pre-class	Quiz	Suggested	Class Objectives
		Reading	10:30am	Problems	
Tu 5/31	Introduction; Measurement	1.1 - 1.3	1	1.3, 1.9, 1.12, 1.27	Understand and use dimensions, units, and significant figures
We 6/1	Straight Line Motion I	2.1 - 2.3	2&3	2.2, 2.15, 2.18, 2.19	Understand and use displacement, velocity, acceleration in one dimension
Th 6/2	Straight Line Motion II	2.4 - 2.6	4	2.25,2.37,2.44,2.53	Interpret kinematics graphically, apply to constant acceleration examples
Fr 6/3	CHAPT 2 TEST	Introduction to Vectors			Understand vectors conceptually and vector arithmetic
Mo 6/6	Motion in Higher Dimensions I	4.1 - 4.4	6&7	4.3, 4.11, 4.22,4.35	Understand and use vector kinematics in two and three dimensions
Tu 6/7	Motion in Higher Dimensions II	4.5 - 4.7	8	4.58, 4.67, 4.70, 4.76	Apply vector kinematics to uniform circular and relative motion
We 6/8	CHAPT 4 TEST	Introduction to Force			Understand Newton's 3 laws of motion conceptually
Th 6/9	Force and Motion I	5.1-5.3	9&10	5.7, 5.20, 5.34, 5.71	Apply Newton's laws to examples with gravity, tension & normal forces
Fr 6/10	Force and Motion II	6.1 - 6.3	11 & 12	6.13,6.36,6.49,6.51	Apply Newton's laws to examples with resistive force and to circular motion
Mo 6/13	CHAP 5 & 6 TEST	Introduction to Energy			Understand the concept of energy
Tu 6/14	Work, Kinetic Energy, Power	7.1 - 7.6	13 & 14	7.11,7.20,7.39,7.46	Apply energy and work to motion in one, two, and three dimensions
We 6/15	Potential and Mechanical Energy	8.1 - 8.3	15 & 16	8.04,8.107,8.9,8.19	Understand potential energy and apply conservation of energy
Th 6/16	CHAP 7 & 8 TEST	Introduction to Momentum			Understand the concept of linear momentum
Fr 6/17	Center of Mass; Linear Momentum	9.1 - 9.5	17 & 18	9.2,9.6,9.9, 9.31,	Understand CoM and impulse, apply to motion of extended objects
Mo 6/20	Conservation of Momentum	9.6 - 9.8	19	9.40, 9.49,9.60, 9.100	Apply conservation of linear momentum to collisions
Tu 6/21	CHAP 9 TEST	Introduction to Rotation			Understand angular displacement, velocity, acceleration about a fixed axis
We 6/22	Rotational Motion	10.1- 10.7	20 & 21	L0.13, 10.22,10.41,10.53	Understand and apply Newton's laws to rotational motion
Th 6/23	Rolling & Angular Momentum	11.1 - 11.8	22 & 23	11.11,11.26,11.37,11.54	Understand and apply angular momentum, analyze rolling motion
Fr 6/24	CHAP 10 & 11 TEST	Introduction to Gravitation			Understand the concepts of gravity
Mo 6/27	Gravitation	13.1 - 13.7	25 & 26	13.21,13.8,13.36,13.54	Apply mechanics (Newton's and conservation laws) to variable gravity force
Tu 6/28	Relativity	37			Understand and use Special Relativity of time dilation and length contraction
We 6/29	FINAL EXAM				