

Text: <i>Physics</i> by Giancoli						<i>SP211 Course Outline--Fall 2002*</i>		021008	
		TEXT--CH		SEC	TOPIC		LAB	MATH**	
Week 1 (19-23 Aug.)	M	Tu			Administration, Diagnostic Exams, etc.		Introduction to Laboratory	6.5 2.1	
	W	Tu/Th	1	1-6	Measurement, Units, Estimating				
	F	Th	2	1-4	1D Velocity and Acceleration				
Week 2 (26-30 Aug.)	M	Tu		2	5-7	1D Constant Acceleration	1D Kinematics	2.6	
	W	Tu/Th	3	1-5	Vectors		via Graphs	9.2	
	F	Th	3	6-8	Projectile Motion			10.4	
Week 3 (2-6 Sept.)	M	<i>Labor Day</i>				2D Kinematics			
	W	Tu	3	9-10	Circular Motion, Relative Velocity			10.4	
	F	Th	4	1-5	Forces and Newton's Laws			6.5	
Week 4 (9-13 Sept.)	M	Tu	4	6	Weight, Normal Force and Tension		Newton's Laws	9.2	
	W	Tu/Th	4	7-8	Free-Body Diagrams				
	F	Th	5	1	Friction				
Week 5 (16-20 Sept.)	M	Tu	5	2-3	Circular Motion (Dynamics)		Centripetal Force	10.4	
	W	Tu	6	1-3	Newton's Law of Universal Gravitation			6.5	
	<i>Lecture demonstration on Thursday, 19 Sept. or Friday, 20 Sept. in Michelson 117</i>								
Week 6 (23-27 Sept.)	M	Tu	6	4-5	Kepler's Laws and Orbital Motion		Open	10.4	
	W	Tu/Th			Time reserved for exam. Actual date to be announced.				
	F	Th	7	1-3	Work			6.5	
Week 7 (30 Sept.-4 Oct.)	M	Tu	7	4	Kinetic Energy		Work and Energy	13.3	
	Tu	Tu			<i>Six Week Grades Due</i>				
	W	Tu/Th	8	1-2	Potential Energy			13.3	
	F	Th	8	3-6	Conservation of Mechanical Energy			13.3	
Week 8 (7-11 Oct.)	M	Tu	8	7-8	Escape Velocity, Power		Open	6.5	
	W	Tu/Th	9	1-2	Linear Momentum				
	F	Th	9	3	Collisions and Impulse				
Week 9 (14-18 Oct.)	M	<i>Columbus Day</i> (Tuesday is a Monday Schedule.)				Momentum and			
	W	Th	9	4-5	Elastic Collisions		1D Collisions		
	F	Th	9	6-7	Inelastic Collisions				
Week 10 (21-25 Oct.)	M	Tu	9	8-9	Center of Mass		2D Collisions and	12.5,12.7	
	W	Tu/Th			Time reserved for exam.		Center of Mass		
	F	Th	10	1-3	Rotational Kinematics			10.4	
Week 11 (28 Oct.-1 Nov.)	M	Tu	10	4-5	Torque		Rotational	9.4	
	W	Tu	10	6-7	Rotational Dynamics		Kinematics and	10.4	
	<i>Lecture demonstration on Thursday, 31 Oct. or Friday, 1 Nov. in Michelson 117</i>								
Week 12 (4-8 Nov.)	M	Tu	10	9	Conservation of Angular Momentum		Open	10.4	
	Tu	Tu			<i>Twelve-week Grades Due</i>				
	W	Tu/Th	13	1-4	Pressure			6.5	
	F	Th	13	6	Buoyancy and Archimedes' Principle				
Week 13 (11-15 Nov.)	M	<i>Veteran's Day</i>				Simple Harmonic			
	W	Tu	13	7-9	Bernoulli's Equation		Motion		
	F	Th	14	1-3,5	Oscillations			6.5	
Week 14 (18-22 Nov.)	M	Tu	14	7,8	Damped and Forced Oscillations		Open		
	W	Tu/Th	15	1-2,4	Waves				
	F	Th	15	6-9	Reflection and Transmission, Resonance				
Week 15 (25-29 Nov.)	M	Tu	16	1,3,4	Sound, Guitars, Organ Pipes		Standing Waves		
	W	Tu	16	6,7	Beats, Doppler Effect		on a String		
	<i>Thanksgiving</i>								
Week 16 (2-6 Dec.)	M	Tu	16	8	Shock Waves and the Sonic Boom		Open		
	W	Tu			Review				
<i>Lecture demonstration on Thursday, 5 Dec. or Friday, 6 Dec. in Michelson 117</i>									

*The representative problems for the course are the alternate odd problems in the text by Giancoli e.g. 3, 7, 11, ...

**MATH refers to the text Calculus: Concepts and Context by J. Stewart e.g. 6.5 refers to chapter 6, section 5.