

PHYSICS 20700MM SPRING 2005 (J3)T (J408)ThF 11:00-12:20

Professor: Mark Shattuck (shattuck@ccny.cuny.edu) Office: Steinman T1M-16 x8161, (Marshak 309A) Office Hours: ThF 12:30-1:30p Website: http://gibbs.engr.cuny.cuny.edu/teaching.html	Textbook: Young & Friedman - "University Physics", 11th ed. Physics Lab Manual (J419)
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<ul style="list-style-type: none"> • 15 min. quiz every Tuesday (first quiz will be Tue. Feb. 1) • Three tests and Final. • All Labs MUST be completed to pass the course! 	10% Quizzes 15% Tests (x3) 45% Final (cumulative)
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Week	Topic	Reading	Homework
Beginning			
Jan. 24 (ThF)	Mechanics Units and Vectors Straight line motion	1.1-10 2.1-4	1: 9,18,32,37,41,42,44,47,48,51,52,55,74 2: 1,9,18,24,36,46,66
Jan. 31 (ThF)	Constant Acceleration 2D Motion; Calculus	2.5-6 3.1-6	2: 31,32,44,50,69,79,90 3: 3,6,9,16,18,23,31,41,44,50,58,69,71,79
Feb. 7 (Th)	<i>Review</i> Newton's Laws	4.1-4	4: 5,20,21,24,37
Feb. 14 (WF)	Newton's Laws Applications	4.5-6 5.1-2	4: 39,49,71 5: 1,4,8,11,56,58,104,112
Feb. 21	Friction <i>Review; Test</i>	5.3-5	5:15,18,19,43,44,46,84,127
Fri. Feb.25	Test 1 (1-5)		
Feb. 28	Work, Energy, Power Potential Energy	6.1-4 7.1-4	6:1,4,21,37,52,60,69,82 7:2,4,13,14,17,43,46,64,65,74
Mar. 7	Momentum and Impulse Conservation, Collisions	8.1-6	8:12,15,16,19,20,27,34,36,39,63,69,70,77,96
Mar. 14	Rigid Rotations Rotational Dynamics	9.1-6 10.1-4	9:11,25,26,41,78 10:3,16,17,63
Mar. 21 (Th)	<i>Review; Test</i>		
Thurs. Mar. 24	Test 2 (6-8)		
Mar. 28 (ThF)	Work; Angular Momentum	10.5-7	10:35,39,42,53,66,87,91,96
Apr. 4	Equilibrium and Elasticity Gravitation	11.1-5 12.1-3	11:1,7,10,13,14,21,73,96 12:15,16,21,27,75
Apr. 11	Planets; Mass distribution Periodic Motion; <i>Review</i>	12.4-6 13.1-6	12:23,32,31,32,53,74 13:2,3,6,13,20,24,41,49,60,69,74
Apr. 18	<i>Test</i> ; Fluid Mechanics	14.1-6	14:11,13,21,25,26,33,34,51,62
Tues. Apr. 19	Test 3 (9-13)		
May 2	Thermodynamics Temperature and Heat Kinetic Theory	17.1-7 18.1-6	17:2,17,21,25,49,53,56,58,62.101-103 18:2,724,27,31,34,43,48,60,63
May 9	Laws of Thermodynamics	19.1-8 20.1-5	19:1,2,16,19,27,33,53,61,63, 20:1,11,39,48
May 16 (T)	Entropy; <i>Review</i>	20.6-8	20:24,25,35,57
May 20-28	FINALS		

Th = Guest Lecturer