

University of California, Santa Barbara
Department of Physics
Proposed Syllabus - Physics 21 - Winter 2005

Week	#	Date	Pre-Lecture Reading (K&K)	Partial Topics
1	1	M 1/3	1.1 thru 1.2 pp. 2-8	Vectors
	2	W 1/5	1.2 thru Ex. 1.7 pp. 8-17	r, v, a
	3	F 1/7	2.1 to Ex. 2.1 pp. 52-60	Newton's Laws
2	4	M 1/10	Ex. 2.1 thru 2.3 pp. 60-68	Units, N.L. Application
	5	W 1/12	2.4 thru Ex. 2.4 pp. 68-75	Applications
	6	F 1/14	1.9 thru Ex. 1.13 pp. 27-34	Polar Coordinates
3	-	M 1/17	MLK Holiday	
	7	W 1/19	Ex. 1.14 - Ex. 1.17, Ex. 2.5-2.8 pp. 35-38, 75-78	Polar Coordinates
	8	F 1/21	2.5 to Ex. 2.10 pp. 79-87	Gravity
4	9	M 1/24	1.8, Ex 2.10 thru 2.12 pp. 19-23, 87-90	Trajectories
	10	W 1/26	Ex. 2.13 thru Ex. 2.16 pp. 90-98	Applications
	-	F 1/28	Midterm I (thru Lec. 8)	
5	11	M 1/31	Ex. 2.17, 2.18; 3.1 to Ex 3.1 pp. 98-101, 112-115	Momentum
	12	W 2/2	Ex. 3.1 to 3.3 pp. 115-122	Center of Mass
	13	F 2/4	3.3 pp. 122-130	Momentum Conservation
6	14	M 2/7	3.4 thru Ex. 3.12 pp. 130-135	Mass Flow
	15	W 2/9	Ex. 3.13 thru Ex. 3.16 pp. 136-143	Momentum Transport
	16	F 2/11	Ex. 3.17 thru Ex. 3.18 pp. 143-145	Applications
7	17	M 2/14	4.0 thru 4.4 pp. 152-160	1-d Work Energy
	18	W 2/16	4.5 thru Ex. 4.11 pp. 160-170	Potential Energy
	-	F 2/18	Midterm II (thru Lec. 16)	
8	-	M 2/21	Presidents' Day	
	19	W 2/23	Ex. 4.12 thru Ex. 4.16 pp. 171-182	Small Oscillations
	20	F 2/25	4.11 thru 4.14 pp. 182-194	Conservation Laws
9	21	M 2/28	6.1 thru Ex. 6.2 pp. 232-240	Angular Momentum
	22	W 3/2	Ex. 6.3 to Ex. 6-8 pp. 240-250	Torque
	23	F 3/4	Ex. 6-8 thru Ex. 6-13 pp. 250-260	Physical Pendulum
10	24	M 3/7	6.7 thru Ex. 6-16 pp. 260-268	Translation with Rotation
	25	W 3/9	Ex. 6-17 thru note 6.2 pp. 268-278	Chasles' Theorem
	-	F 3/11	Review/Catch Up	

The FINAL is
Friday, March 18
8:00am
in 1640 Broida.