

Syllabus for Fundamentals of Physics 121

Sections 0101-0106, Spring 2009

Week		Lecture	College Physics	Homework problems & exams
1	Jan 27	Introduction, units, vectors, velocity	1.1-1.5, 2.1, 2.2, 3.1-3.3	Chapter 1: 7, 8, 12, 13, 15, 17, 21, 28, 31, 33
2	Feb 3	Acceleration	2.3-2.7, 3.2, 3.4-3.7	Chapter 2: 5, 8, 12, 14, 17, 24, 26, 29, 32, 35, 52, 56
3	Feb 10	Newton's laws of motion	4, 5	Chapter 3: 26, 31, 33, 58 Chapter 4: 18, 24, 25, 66a, 66b
4	Feb 17	Newton's laws of motion	4, 5	Chapter 5: 4, 6, 16, 20, 25, 28, 39, 64
5	Feb 24	Newton's laws of motion	4, 5	Exam Thursday Feb 26
6	Mar 3	Circular motion	3.8, 6.1-5	Chapter 6: 7, 17, 19, 22, 23
7	Mar 10	Gravity	6.6-6.7	Chapter 6: 27, 29, 35, 45, 58, 63
8	Mar 17	Spring break		
9	Mar 24	Torque, Rigid body	7, 8	Chapter 7: 7, 11a, 15, 19, 21 Chapter 8: 11, 35, 39
10	Mar 31	Momentum	9	Chapter 9: 13, 17, 19, 25, 29
11	Apr 7	Energy	10, 11	Chapter 10: 3, 4, 11, 15a, 15b, 19, 29, 50, 53
12	Apr 14	Energy	10, 11	Chapter 10: 13, 31, 33, 35, 41, 45, 65
13	Apr 21	Thermal energy		
14	Apr 28	Ideal gas		
15	May 5	Quarks and forces		
16	May 12	Review	Final Exam 8:00am-10:00 am, Thursday May 12	