

Physics 1313 Fundamentals of Physics Spring 2006

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Course WWW Page: <http://www.physics.smu.edu/~coan>

Text: Physics 6/e by Cutnell and Johnson, ISBN 0471-15183-1

Office hours: Monday: 2:00 p.m. - 3:30 p.m. Also by appointment.

DATE	LECTURE TOPIC	READING
Jan 17	No Class	
Jan 18	Introduction and Describing 1-D Motion	Sec, 2.1-2.3
Jan 23	Describing 1-D Motion	Sec. 2.4-2.5
Jan 24	Measurement and Measurement Error (L)	
Jan 25	Falling Bodies	Sec 2.6-2.7
Jan 30	Life in more than 1-D	Sec 3.1-3.3
Jan 31	Acceleration due to Gravity (L)	
Feb 1	Newton's Laws of Motion	Sec. 4.1-4.5
Feb 6	Gravitational Force	Sec. 4.6-4.7
Feb 7	Vectors (L)	
Feb 8	Circular Motion	Sec 5.1-5.3
Feb 13	Basic Astronomy	e-Handout
Feb 14	Test 1 (L)	
Feb 15	Special Topics	TBA
Feb 20	First Look at Work and Energy	Sec. 6.1-6.3
Feb 21	Forces in Equilibrium (L)	
Feb 22	Last Look at Work and Energy	Sec. 6.5 & 6.7
Feb 27	Impulse and Momentum	Sec. 7.1-7.2
Feb 28	Hooke's Law (L)	
Mar 1	Collisions	Sec 7.3-7.4
Mar 6	Intro to Fluids	Sec. 11.1-11.2
Mar 7	Energy Conservation (L)	
Mar 8	Why Things Float	Sec 11.3-11.6

DATE	LECTURE TOPIC	READING
Mar 13	Spring Break	TV Guide
Mar 14	Spring Break	TV Guide
Mar 15	Spring Break	TV Guide
Mar 20	Electric Forces	Sec 18.1-18.4
Mar 21	(L)	
Mar 22	Electric Fields	Sec. 18.5-18.7
Mar 27	Magnetic Field	Sec 21.1-21.3
Mar 28	Test 2 (L)	
Mar 29	Magnetic Fields and Electric Currents	Sec 21.5 & 21.7
Apr 3	Light	Sec. 24.1-24.3, 24.6
Apr 4	Speed of Light (L)	
Apr 5	Waves and Interference	Sec 27.1-27.3, 27.5
Apr 10	Refraction and Rainbows	Sec 26.1-26.3, 26.5
Apr 11	Diffraction (L)	
Apr 12	Einstein's Perspective on Time and Space	Sec. 28.1-28.4 + e-Handout
Apr 17	More Perspective	Sec. 28.5-28.7 + e-Handout
Apr 18	Test 3 (L)	
Apr 19	Atoms	Sec 30.1-30.3 + e-Handout
Apr 24	More Atoms	e-Handout
Apr 25	Atomic Spectra (L)	
Apr 26	Flirtation with Nuclear Physics	Sec. 31.1-31.6
May 1	Modern Particle Physics Research	Cultural Enrichment
May 2	Radioactivity (L)	

Final Examination: 123 FS 3:00 p.m. – 6:00 p.m. Wednesday, 10 May 2006