

Physics 1313 Fundamentals of Physics Spring 2006

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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	HW	DUE
Jan 17	No Class		
Jan 18	Introduction and Describing 1-D Motion	CQ 4,10; P4,16	25 Jan
Jan 23	Describing 1-D Motion	CQ.8; P.14,32	1 Feb
Jan 24	Measurement and Measurement Error (L)		
Jan 25	Falling Bodies	P 40,44,58	1 Feb
Jan 30	Life in more than 1-D	CQ3.13; P3.8, P3.16, P3.26, P3.38	8 Feb
Jan 31	Acceleration due to Gravity (L)		
Feb 1	Newton's Laws of Motion	CQ4.6, CQ4.14; P4.8, P4.14	8 Feb
Feb 6	Gravitational Force	P4.24, P4.26, P4.30, P4.32	15 Feb
Feb 7	Vectors (L)		
Feb 8	Circular Motion	CQ5.5; P5.6, P5.10, P5.18	15 Feb
Feb 13	Basic Astronomy		22 Feb
Feb 14	Test 1 (L)		
Feb 15	Special Topics		22 Feb
Feb 20	First Look at Work and Energy	CQ10, CQ16; P6.16, P6.22, P6.30	1 Mar
Feb 21	Forces in Equilibrium (L)		
Feb 22	Last Look at Work and Energy	P6.14, P6.34, P6.36, P6.38	1 Mar
Feb 27	Impulse and Momentum	CQ7.4, CQ7.8; P7.4, P7.10 P7.22	8 Mar
Feb 28	Hooke's Law (L)		
Mar 1	Collisions	CQ7.12, P7.26, P7.28, P7.32, P7.36	8 Mar
Mar 6	Intro to Fluids	CQ11.6, P11.6, P11.14, P11.22	22 Mar
Mar 7	Energy Conservation (L)		
Mar 8	Why Things Float	CQ11.12, P11.26, P11.44, P11.46	22 Mar

DATE	LECTURE TOPIC	HW	DUE
Mar 13	Spring Break	<i>War and Peace</i> , L. Tolstoy	
Mar 14	Spring Break	<i>Crime and Punishment</i> , F. Dostoevsky	
Mar 15	Spring Break	<i>Remembrance of Things Past</i> , M. Proust	
Mar 20	Electric Forces	CQ18.5, CQ18.14, P18.14	5 Apr
Mar 21	(L)		
Mar 22	Electric Fields	P18.27, P18.30	5 Apr
Mar 27	Magnetic Field	P21.7, P21.15, P21.29	5 Apr
Mar 28	Test 2 (L)		
Mar 29	Magnetic Fields and Electric Currents	P21.52, P21.53	12 Apr
Apr 3	Light	CQ 24.7; P24.2, P24.10, P24.38	12 Apr
Apr 4	Speed of Light (L)		
Apr 5	Waves and Interference	P27.4, P27.12, P27.22, P27.26	26 Apr
Apr 10	Refraction and Rainbows	CQ26.4 CQ26.11; P26.14, P26.26, P26.40	26 Apr
Apr 11	Diffraction (L)		
Apr 12	Einstein's Perspective on Time and Space		
Apr 17	More Perspective		
Apr 18	Test 3 (L)		
Apr 19	Atoms		3 May
Apr 24	More Atoms	P30.10, P30.12, P30.14	3 May
Apr 25	Atomic Spectra (L)		
Apr 26	Flirtation with Nuclear Physics	CQ31.3, CQ31.8; P31.4	3 May
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