

# Physics 1313 Fundamentals of Physics Syllabus

## Fall 1999

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Text: Physics, Cutnell\_and\_Johnson, ISBN 0-471-15519-4 **OR** 0-471-15519-5

Office hours: Monday, 2:00 – 4:00 PM. Also by appointment.

<b>DATE</b>	<b>LECTURE TOPIC</b>	<b>READING</b>
Aug 23	Introduction and Describing Motion	Sec 2.1-2.3, pp. 26-35.
Aug 24	No Lab	
Aug 25	Describing Motion	Sec 2.4-2.5, pp. 35-45.
Aug 30	Falling Bodies	Sec. 2.6-2.7, pp.46-52
Aug 31	Measurement and Measurement Error (L)	
Sep 1	Vectors and Life in 2 Dimensions	Sec. 3.1-3.2, pp. 60-65.
Sep 6	Labor(less) Day Holiday	
Sep 7	Acceleration due to Gravity (L)	
Sep 8	Projectile Motion	Sec. 3.3, pp. 65-75.
Sep 13	Newton's Laws	Sec 4.1-4.5, pp. 86- 95.
Sep 14	Vectors and the Inclined Plane (L)	
Sep 15	Gravitation	Sec 4.6-4.7, pp. 95-99.
Sep 20	Circular Motion	Sec5.1-5.3, pp. 132-138.
Sep 21	Pre-Test Review	
Sep 22	Test 1	
Sep 27	Test 1 Postmortem and Special Topics	
Sep 28	The Force Table (L)	
Sep 29	First Look at Work and Energy	Sec. 6.1-6.3, pp. 154-165.
Oct 4	Last Look at Work and Energy	Sec. 6.5, 6.7-6.8, pp. 169-174, 175-177.
Oct 5	Speed of Light (L)	
Oct 6	Impulse and Momentum	Sec. 7.1-7.2, pp. 189-200.
Oct 11	Fall Break, No Lecture	
Oct 12	Fall Break, No Lab	
Oct 13	Collisions	Sec. 7.3-7.4, pp. 200-204.
Oct 18	Rotational Motion	Sec. 8.1-8.3, pp. 214-222.
Oct 19	Ballistic Pendulum (L)	
Oct 20	Still More Rotational Motion	Sec. 8.4-8.6, pp. 223-228.

<b>DATE</b>	<b>LECTURE TOPIC</b>	<b>READING</b>
Oct 25	Pre-Test Review	
Oct 26	Test 2	
Oct 27	Rigid Bodies and Rotation	Sec. 9.1-9.3, pp.238-250.
Nov 1	Newton and Rotation	Sec. 9.4-9.6, pp.250-262.
Nov 2	Test 2 Postmortem	
Nov 3	Fluids and Why Things Float	Sec 11.1-11.5, pp.308-323.
Nov 8	Fluids and Special Topics	Sec 11.5-11.6, pp.308-323.
Nov 9	Rotational Equilibrium (L)	
Nov 10	Simple Harmonic Motion	Sec. 10.3-10.5, pp. 280-293.
Nov 15	Yet More Simple Harmonic Motion	Sec. 10.6-10.8, pp. 293-298.
Nov 16	Springs and Hooke's Law (L)	
Nov 17	Waves and Sound	Sec. 16.1-16.3, 16.5, pp.459-464, 465-467.
Nov 22	More Waves and Sound	Sec. 17.1-17.2, 17.5,17.6, pp.495-500, 506-512.
Nov 23	Simple Pendulum (L)	
Nov 24	Test 3	
Nov 29	Test 3 Postmortem and Special Topics	
Nov 30	Resonant Tubes (L)	
Dec 1	Special Topics	

**FINAL EXAMINATION: Tuesday, 7 Dec. '99, 3:00 PM – 6:00 PM.**