Physics 201 College Physics (Sects. 513-516) Spring 2004

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Office Hours: Tue 2-3pm, Wed+Thu 10-11am

Text: Physics 6th Ed. by Cutnell and Johnson
Physics 201 Lab Manual (published by Hayden-McNeil)
Optional: Student Solutions Manual; Student Study Guide

Grading: The total course grade is composed as follows

3 Intermediate Exams	60%
Final (Comprehensive)	25%
Laboratory	10%
Recitation (weekly quizzes)	5%
	100%

Note: You must achieve a 70% or better in the laboratory in order to pass the course.
If your grade on the Final Exam is higher than your lowest grade on one of the four exams during the semester, the grade on the Final will replace that one lowest exam grade in computing the course grade. The Final Exam grade **cannot** be used to replace an exam that has been missed.

Fri, Jan. 23, is the last day to drop with no record; Mon, Apr. 05 is the last day to Q-drop;

Final Exam: Fri, May 7, 3–5pm

Syllabus: ("c" denotes Conceptual Questions)

Week	Date	Topic	Sections in Text	Problems
1	Jan. 20 T	Units; Vectors	1:1–9	1: 6,7,11,13,38,41,45,46,47,56;
	Jan. 22 R	Velocity; Acceleration	2:1–3,7	c1,c14,c15,c16,c17
				2: 3,16,61,67,74
2	Jan. 27 T	Constant Acceleration; Kinematics in 2-dim	2:4–6,8; 3:1–2	2: 19,24,31,39,43,44,45,47,48, 68,72,78; c1,c7,c12,c13
	Jan. 29 R	Projectiles; Relative Velocity Newton's Laws	3:3–5; 4:1–5	3: 6,16,17,21,22,30,35,51,53,64, 68,69,71; c2,c10,c12,c16
3	Feb. 03 T	Forces	4:6–10	4: 1,9,11,15,28,32,38,40,44, 54,56,59,67,76,79,82,84,89,94;
	Feb. 05 R	$F = ma$ Examples	4:11-13	c4,c6,c11,c17,c18,c21,c26
4	Feb. 10 T	Circular Motion; Satellites	5:1–8	5: 10,13,15,19,26,27,37,40, 49,54; c1,c6,c8,c14
	Feb. 12 R	Review		
5	Feb. 17 T	**Exam I**	Chapters 1–5	
	Feb. 19 R	Work; Potential Energy	6:1–3,9	6: 5,18,22,24; c1,c2,c7

Week	Date	Topic	Sections in Text	Problems
6	Feb. 24 T	Conservation of Energy; Power	6:4–8,10	6:25,31,34,37,39,42,44,45,46, 50,58,67,73; c14,c17
	Feb. 26 R	Momentum; Collisions	7:1–6	7: 11,19,21,28,30,32,34,35,45, 46,49,50,52; c4,c13,c20
7	Mar. 02 T	Rotational Motion; Statics	8:1–6,8; 9:1–2	8: 19,21,23,32,35,44,47,57,63, 66; c7,c9,c12
	Mar. 04 R	Rotational Dynamics; Angular Momentum	9:3–7	9: 2,6,9,12,15,24,31,37,38,47, 53,55,56,63,66,68,69,70; c5,c6,c8,c13,c18,c20,c23
8	Mar. 09 T	Simple Harmonic Motion	10:1–9	10: 8,10,11,15,17,27,28,29,32, 35,41,59,77; c2,c6,c13
	Mar. 11 R	Review		
–	Mar. 16 T	Spring Break (no class)		Prepare for
	Mar. 18 R	Spring Break (no class)		Exam II !
9	Mar. 23 T	**Exam II**	Chapters 6-10	
	Mar. 25 R	Fluid Statics	11:1–6,12	11: 13,39,40,41,42,46,85,89, 90; c12,c13,c14,c15
10	Mar. 30 T	Expansion; Heat	12:1–8,11	12: 4,12,15,32,44,45,55, 78,79,87; c3
	Apr. 01 R	Heat Transfer; Kinetic Theory	13:1–5; 14:1–3,5	13: 11,12,13,18,21,33; c5 14: 13,16,18,22,34,47,50,53; c11,c12,c13,c14
11	Apr. 06 T	1st Law of Thermodynamics	15:1–6	15: 1,4,10,11,21,24,25,33,41,
	Apr. 08 R	2nd Law; Heat Engines	15:7–10	43,49,64; c1,c2,c5,c6,c20
12	Apr. 13 T	Entropy	15:11-13	15: 64,69,73,75,78,80,82,88; c22,c23,c25
	Apr. 15 R	Review		
13	Apr. 20 T	**Exam III**	Chapters 11–15	
	Apr. 22 R	Waves	16:1-4	16: 1,6,7,9,17,25,27; c3,c4,c6
14	Apr. 27 T	Sound	16:5–10,12	16:53,72,75,85,87,91,93,99; c15,c16,c17,c19
	Apr. 29 R	Superposition; Standing Waves	17:1–6,8	17: 5,6,7,17,24,27,29,37, 41,45; c1,c3,c14
15	May 04 T	Review		
	May 06 R	no class		