Physics 201 College Physics (Sects. 513-516) Spring 2006

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Course Webpage: http://cyclotron.tamu.edu/rapp/phy201.html (check for more information!)

Text: Physics, 6th Ed. by Cutnell and Johnson, Volume 1
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.
In addition to the *weekly* homework assignments given below, it is mandatory to perform the weekly WebCT homework problems.
If your grade on the Final Exam is higher than your lowest grade on one of the three (Intermediate) Exams during the semester, the grade on the Final Exam 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.

Mon, Jan. 23, is the last day to drop with no record; Mon, Apr. 03 is the last day to Q-drop;

Final Exam: Fri, May 5, 03:00–05:00pm

Syllabus: ("c" denotes Conceptual Questions)

Week	Date	Topic	Sections in Text	Problems
1	Jan. 17 T	Units; Vectors	1:1–9	1: 6,7,11,13,38,41,45,46,47,56; c1,c14,c15,c16,c17
	Jan. 19 R	Velocity; Acceleration	2:1–3,7	2: 3,16,61,67,74
2	Jan. 24 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. 26 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	Jan. 31 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. 02 R	$F = ma$ Examples	4:11-13	c4,c6,c11,c17,c18,c21,c26
4	Feb. 07 T	Circular Motion; Satellites	5:1–8	5: 10,13,15,19,26,27,37,40, 49,54; c1,c6,c8,c14
	Feb. 09 R	Review		
5	Feb. 14 T	**Exam I**	Chapters 1–5	
	Feb. 16 R	Work; Potential Energy	6:1–3,9	6: 5,18,22,24; c1,c2,c7
6	Feb. 21 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. 23 R	Momentum; Collisions	7:1–6	7: 11,19,21,28,30,32,34,35,45, 46,49,50,52; c4,c13,c20

Week	Date	Topic	Sections in Text	Problems
7	Feb. 28 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. 02 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. 07 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. 09 R	Review		
–	Mar. 14 T	Spring Break (no class)		Prepare for
	Mar. 16 R	Spring Break (no class)		Exam II !
9	Mar. 21 T	**Exam II**	Chapters 6-10	
	Mar. 23 R	Fluid Statics	11:1–6,12	11: 13,39,40,41,42,46,85,89, 90; c12,c13,c14,c15
10	Mar. 28 T	Expansion; Heat	12:1–8,11	12: 4,12,15,32,44,45,55, 78,79,87; c3
	Mar. 30 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. 04 T	1st Law of Thermodynamics	15:1–6	15: 1,4,10,11,21,24,25,33,41,
	Apr. 06 R	2nd Law; Heat Engines	15:7–10	43,49,64; c1,c2,c5,c6,c20
12	Apr. 11 T	Entropy	15:11-13	15: 64,69,73,75,78,80,82,88; c22,c23,c25
	Apr. 13 R	Review		
13	Apr. 18 T	**Exam III**	Chapters 11–15	
	Apr. 20 R	Waves; Sound	16:1-10,12	16: 6,9,17,25,27,53,72,75,85,87, 91,93,99; c3,c4,c6,c15,c17,c19
14	Apr. 25 T	Superposition	17:1–4	17: 5,6,7,17; c1,c3,c14
	Apr. 27 R	Standing Waves, Review	17:5,6,8	17: 24,27,29,37,41,45;

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