

Physics 201 College Physics

Fall 2008

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Text: College Physics 8th Ed. by Young&Geller (with Mastering Physics)
and PHYS 201 Lab Manual (published by Hayden-McNeil)

Grading: 4 Exams 60%, Final 20%, Laboratory 10%, Recitation 5%, Homework 5%

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.

Note: August 29 is the last day to drop with no record. October 31 is the last day to Q-drop.

Final Exam is Monday, December 8, 8–10 a.m.

Syllabus:

<u>Week</u>	<u>Date</u>	<u>Topic</u>	<u>Sections in Text</u>	<u>Problems</u>
1	Aug. 25 M	Units; Vectors	1:1–6	1: CQ4,12,14; MC6,9,13;
	Aug. 27 W	Vector Addition; Components	1:7–8	1: P2,5,9,44,45,46,49,61,62
	Aug. 29 F	Velocity; Acceleration	2:1–3	2: P3,6,12,17,20,68
2	Sept. 1 M	Constant Acceleration	2:4–6	2: CQ4,6,14,15; MC3,5,10,12,13,15
	Sept. 3 W	Projectiles	3:1–3	2: P34,35,40,45,46,49,51,57,59,71,76,81
	Sept. 5 F	Circular Motion; Relative Velocity	3:4–5; 2:7	3: CQ1; MC1,2,6,8,13; P5,8,13,20, 3: P22,23,38,40,41,49,55,64,65
3	Sept. 8 M	Newton's Laws	4:1–5	4: MC2,5,15,16; P5,11,20,37,43
	Sept. 10 W	Forces; Equilibrium	4:6; 5:1	4: P51,52,54,57
	Sept. 12 F	$F = ma$ Examples	5:2–5	5: CQ7,9,13; MC3,4,8,12,13; P3,12,13,16 5: P23,25,29,33,39,46,48,61,71,76,79,87
4	Sept. 15 M	Review	Chapters 1–5	6: P4,5,8,10,14,49,57,58
	Sept. 17 W	Exam I		
	Sept. 19 F	Circular Motion		
5	Sept. 22 M	Gravity; Satellite Motion	6:3–5	6: MC1,4,6; P27,29,33,42,51,53
	Sept. 24 W	Work; Energy	7:1–4	7: CQ6; MC5,7,8,14
	Sept. 26 F	Conservation of Energy	7:5–6	7: P5,6,18,21,25,30,45,48,52,53
6	Sept. 29 M	Nonconservative Forces; Power	7:7–8	7: P59,62,70,81,85,88,89
	Oct. 1 W	Momentum; Collisions	8:1–4	8: CQ10,15; MC1,8,9,11; P3,12,14,17
	Oct. 3 F	Impulse; Center of Mass	8:5–7	8: P19,25,29,40,52,60,61,67,71,85

7	Oct. 6 M Oct. 8 W Oct. 10 F	Review Exam II Rotational Kinematics	Chapters 6–8 9:1–3	9: P12,19,25,26
8	Oct. 13 M Oct. 15 W Oct. 17 F	Moment of Inertia; Moving Axis Torque; Rotational Dynamics Work; Angular Momentum	9:4–5 10:1–2 10:3–5	9: CQ2,3,8; MC5,6,16 9: P33,42,46,49,64,70 10: P2,9,11,19,28,31,34,67,82
9	Oct. 20 M Oct. 22 W Oct. 24 F	Rotational Statics SHM SHM; Pendulums	10:6 11:1–3 11:4–5	10: MC2,5,6,8,10; P40,43,44,45,47,64,76 11: MC1,7,15; P1,7,26 11: P28,31,39,45,58,61,63
10	Oct. 27 M Oct. 29 W Oct. 31 F	Examples; Review Exam III Waves	Chapters 9–11 12:1–4	12: P4,7,11,13
11	Nov. 3 M Nov. 5 W Nov. 7 F	Standing Waves Interference; Sound Expansion; Heat	12:5–7 12:8–12 14:1–5	12: MC3,4,5,6,7,9,11 12: P16,18,19,25,33,35,44,54,56,57,68 14: P5,15,27,34,75
12	Nov. 10 M Nov. 12 W Nov. 14 F	Calorimetry; Heat Transfer Ideal Gas; Kinetic Theory 1st Law	14:6–7 15:1–4 15:5–7	14: MC4,5,10,13; P44,46,54,57,64,76,85 15: MC4,6,9,10,12,13,14,15; P7,12,23 15: P26,33,39,43,45,52,56,59,64,73,76,80,83
13	Nov. 17 M Nov. 19 W Nov. 21 F	Heat Engines; 2nd Law Carnot Cycle; Entropy Examples; Review	16:1–5 16:6–8	16: MC2,6,11,15; P4,9,17 16: P19,25,30,36,45,47,57
14	Nov. 24 M Nov. 26 W Nov. 28 F	Exam IV Fluid Statics Thanksgiving Holiday	Chapters 12,14–16 13:1–3	13: MC1,3,4,5,6,11; P2,13,23 13: P29,32,33,35,61,66,67,68
15	Dec. 1 M	Review		

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