

PH 101 General Physics 1, Fall 2004

Monday, Wednesday, Friday 8:00 – 8:55 a.m. MSC 112

Instructor: Dr. John O. Dimmock
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Office hours: 1:00 – 2:30 Monday and Wednesday, 10:00 – 11:30 Tuesday and Thursday
Text: Physics, Cutnell and Johnson, Sixth Edition, Wiley 2004

Course outline and schedule: This course covers:

1. Introduction to basic mathematical concepts, kinematics in one and two dimensions, forces and Newton's laws, and dynamics of uniform circular motion.
2. Work and energy, impulse and momentum, rotational kinematics, rotational dynamics, and simple harmonic motion and elasticity.
3. Fluids, temperature and heat, the transfer of heat, the ideal gas law, kinetic theory, and thermodynamics.

Homework and tests: There will be 15 homework assignments, two in-class tests and a final examination as indicated below.

Schedule:	Classes	Homework Due
	Chapter 1: 8/30, 9/01	9/08
	Chapter 2: 9/03, 9/08, 9/10	9/13
	Chapter 3: 9/13, 9/15	9/17
	Chapter 4: 9/17, 9/20, 9/22, 9/24	9/27
	Chapter 5: 9/27, 9/29	10/01
	Test 1: 10/01	
	Chapter 6: 10/04, 10/06, 10/11	10/13
	Chapter 7: 10/13, 10/15	10/18
	Chapter 8: 10/18, 10/20	10/22
	Chapter 9: 10/22, 10/25, 10/27	10/29
	Chapter 10: 10/29, 11/01, 11/03	11/05
	Test 2: 11/05	
	Chapter 11: 11/08, 11/10, 11/12	11/15
	Chapter 12: 11/15, 11/17, 11/19	11/22
	Chapter 13: 11/22, 11/29	12/01
	Chapter 14: 12/01, 12/03	12/06
	Chapter 15: 12/06, 12/08, 12/10	12/13
	Final Exam 12/13 8:00 – 10:30 am	

Homework: Homework for each chapter will be due at the beginning of the first class of the next chapter as indicated above. Homework grade will be dropped 10 points for each day late.

Grading: **Homework 25%**
 Each in-class test 25%
 Final Exam 25%

Class attendance: Attendance will be taken sporadically either by roll call or a short quiz. Five (5) points will be added for perfect attendance and five (5) points will be subtracted for each absence beyond three.

Final Letter Grade:

97 – 100	A+
93 – 96	A
90 – 92	A-
87 – 89	B+
83 – 86	B
80 – 82	B-
77 – 79	C+
73 – 76	C
70 – 72	C-
60 – 70	D
Below 60	F