

Ph 231 Introductory Physics (Sp, 2003), Web: www.pa.msu.edu/courses/current/phy231

Lecturer: Jack Bass, Office: Rm 4220 BPS. e-mail Bass@pa.msu.edu

Office Hours: W 3-5 pm plus 'catch me in' (**but not in the mornings before class**).

Textbook: College Physics, 6th Edition, R. Serway and J. Faughn

Help-room: Rm 1240 BPS. Hours M: Noon-5pm; 7-9pm. W: Noon-5pm; 7-9pm.

Exams: **Two one hour mid-term exams, Feb. 4 and Mar. 13**, will be given in class.

You may bring **one** 8.5"x11" sheet of notes to each mid-term exam and **two** to the Final Exam.

Grades: Determined on the basis of total score of 140 pts on Class Quizzes and three Exams.

Quizzes = 44 pts; MT #1 = 24 pts, MT#2 = 24 pts, Final = 48 pts.

Quizzes: Quizzes worth 4 pts each will be given during the last 10-15 minutes of class, weekly (at the end of each chapter). The lowest three scores will be dropped (excused absences are **included** in these three). *Note: Quizzes will **include** material covered in the lecture of that same day, so you must work on homework **before** coming to class.* New material from the *following* chapter will **not** be on the quiz.

The following are guaranteed grade cuts: 4.0 = 113 pts; 3.5 = 103 pts; 3.0 = 86 pts; 2.5 = 71 pts; 2.0 = 55 pts; 1.5 = 46; 1.0 = 40. These grade cuts will not be raised, but each might be lowered by 1 or 2 points.

Homework (A) and (B) problems are similar, but **not** identical. You can first 'test yourself' on version A and check the answer. Then you can use version B to see if you understand the concepts and procedures required. **You are encouraged to work together on homework to be sure you know how to do it.**

SOME IMPORTANT DON'TS. (1) Don't spit into the wind.

(2) Don't Bungee jump from a 100 m tower with a 110 meter long cord.

(3) Don't try to get through Physics without doing homework.

(4) Don't believe you can learn Physics without thinking about it.

Lecture and Reading Assignment Schedule (Tentative—Subject to Change)

Lect. Dates	Wk #	Reading Assignment Serway & Faughn (Chapt., Sects.)		Subject
		Tue.	Thur.	
Jan. 7,9	1	Chapter 1		Units & Measurements
Jan. 14,16	2	Chapter 2		1D Motion
Jan. 21,23	3	Chapter 3		2D Motion & Vectors
Jan. 28,30	4	Chapter 4		Newton's Laws, Force & Motion
Feb. 4, 6	5	MT #1	Ch. 5.	Work and Energy
Feb. 11,13	6	Ch. 5	Ch.6	Momentum & Collisions
Feb. 18,20	7	Ch. 6	Ch. 7	Collisions & Circular Motion
Feb. 25,26	8	Ch. 7	Ch. 8	Gravity; Rotational Equilibrium
Mar. 4,6		Spring Break		
Mar. 11,13	9	Ch. 8	MT#2	Rotational Dynamics.
Mar. 18,20	10	Chapter 9		Solids & Fluids
Mar. 25,27	11	Chapter 10.		Thermal Physics
Apr. 1,3	12	Chapter 11		Heat
Apr. 8,10	13	Chapter 12		Laws of Thermodynamics
Apr.15,17	14	Chapter 13		Vibrations & Waves
Apr. 22,24	15	Chapter 14		Sound
Tu, Apr. 29		Final Examination		8-10pm. 1281 Anthony Hall