

Ph 231 Introductory Physics (Sp, 2002). Web: www.pa.msu.edu/courses/current/phy231 REVISED 4/2/02

Lecturer: Jack Bass, Office: Rm 7 PA. e-mail Bass@pa.msu.edu

Office Hours: W 3-6 pm plus 'catch me in' (**but not in the mornings before class**).

Textbook: College Physics, 5th Edition, R. Serway and J. Faughn

Help-room: Rm 346 Giltner Hall. *Tentative* Hours M: 2pm-5pm; 7-9pm. W: 9am-12pm; 7-9pm.

Exams: Two one hour **mid-term exams, Feb. 5 and Mar. 19**, will be given from **7-8pm in Rm 1281 Anthony Hall**. No lectures on those days.

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) except the weeks of tests. 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.* Any new material from the *following* chapter will **not** be on the quiz.

The following are guaranteed grade cuts: 4.0 = 116 pts; 3.5 = 102 pts; 3.0 = 86 pts; 2.5 = 72 pts; 2.0 = 56 pts; These grade cuts will not be raised, but those **above** the 2.0 level might be reduced.

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 what to do.**

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. 8,10	1	Chapter 1		Units & Measurements
Jan. 15,17	2	Chapter 2		1D Motion
Jan. 22,24	3	Chapter 3		2D Motion & Vectors
Jan. 29,31	4	Chapter 4		Newton's Laws, Force & Motion
Feb. 5, 7	5	MT #1	Ch. 5.	Work and Energy
Feb. 12,14	6	Ch. 5	Ch.6	Momentum & Collisions
Feb. 19,21	7	Ch. 6	Ch. 7	Collisions & Circular Motion
Feb. 26,27	8	Ch. 7	Ch. 8	Gravity; Rotational Equilibrium
Mar. 5, 7		Spring Break		
Mar. 12,14	9	Ch. 8	Ch.9	Rotational Dynamics.; Solids & Fluids.
Mar. 19,21	10	MT #2	Ch. 9	Solids & Fluids (continued).
Mar. 26,28	11	Chapter 10.		Thermal Physics
Apr. 2, 4	12	Chapter 11		Heat
Apr. 9, 11	13	Chapter 12		Laws of Thermodynamics
Apr.16, 18	14	Chapter 13		Vibrations & Waves
Apr. 22,24	15	Chapter 14		Sound
May 1	8pm	Final Examination		Rm 1281 Anthony Hall

