

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

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

Textbook: College Physics, 6<sup>th</sup> 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