PHY 220 (lecture)
General Physics I

Dillard University - Fall 2002

revised 13 September 2002

Meeting Times:

```
STERN 219  M W F  11:00a - 11:50a   (lecture)
STERN 123      R  02:30p - 05:15p   (lab)
```


Instructor: Rob Salgado ⟵ note the correct spelling
office: Stern 307A
voice: (504)-816-4510 ⟵ note the new number
email: `rsalgado@dillard.edu` ⟵ "the BEST way to reach me"
www: `http://physics.syr.edu/~salgado/` ⟵ temporarily
instant-messengers: AOL, MSN, Yahoo: `dillardphysics` (do not email here)

Office hours: [consult the webpage above for any revisions to the following schedule]

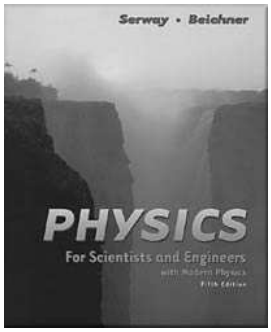
```
STERN 307A        M W   10:00a-11:00a
                    T    1:00p- 3:00p
                      R  5:15p- 6:15p
LEARNING CENTER   T     9:00a-11:00a
```

or drop by my office or make an appointment by email.

Catalog Description:

PHY 220 General Physics I: Particle dynamics in solids. (4 credits)
Open to all science, engineering and mathematics majors. Fundamental physical laws of mechanics; kinematics and dynamics; work and energy; rigid body rotational dynamics; waves and oscillatory motions; and gravitation. Class meets three hours per week for lecture.

[Prerequisite: PHY 111/112 (?) , Math 201 or concurrent enrollment.]



If you are unhappy with the textbook, FIND ANOTHER ONE from the library! (I did this for every class I took!)

Textbook: "Physics for Scientists and Engineers" (5th edition)
by Raymond A. Serway and Robert J. Beichner
(published by Brooks/Cole: ISBN: 0-03-031716-9)

Electronic Materials: The textbook has a useful website. However, the URL is too long and complicated to print here. I will maintain a webpage that lists the assigned problems and solutions:

(temporarily at) `http://physics.syr.edu/~salgado/220/`

I will also provide a link to the textbook's website.

Homework: Homework will be assigned but <u>not</u> be collected. We will discuss the homework in class. I guarantee that at least two of those problems will appear on a quiz or exam.

Most of the learning you do in this class is done by **doing homework problems outside of class!**

You are encouraged to work on the homework with other students.
However, be sure that <u>you can do the problems **by yourself**</u>
since you'll be working on quizzes and exams by yourself.

If you need help with your homework, please visit me (with your text and your notebook and *with proof that you tried the problems*) during Office Hours.

Classroom Rules:

Come to class ON TIME. Attendance is REQUIRED, in accordance with University regulations (page 17).
Come to class PREPARED, having read or written any assignments.
Turn OFF all phones, pagers, radios, and other disruptive devices.
Limit all discussions to the PHYSICS topic under discussion.
Academic dishonesty will not be tolerated, in accordance with University regulations (page 18).
Treat each other with RESPECT.

Grades (for lecture):

- 20% REGULAR QUIZZES
- 30% REGULAR EXAMS
- 20% MIDTERM EXAM
- 30% FINAL EXAM

A=90+, B=80+, C=70+, D=60+, F<60.
This class is not graded on a curve.
Borderline cases (between two letter grades): If your exams show an upward trend or you are an active participant in class, your grade may be nudged upwards.

Exams and Quizzes: QUIZZES are generally given at end of each chapter. They will begin at the start of the class period and will end promptly after ten minutes of that period. [No makeups or extensions. Be on time.] After every three chapters or so, we will have an EXAM on these chapters (instead of a quiz on the recently finished chapter). There is a MIDTERM exam and a FINAL exam.

Missed exams:
If you are absent for an exam, you must present a written excuse to me.
Only if that excuse is valid, your next scheduled exam will carry the weight of your missed exam. Otherwise, you will get no credit for the missed exam.

Course outline (tentatively):

Q=quiz
X=exam
R=review

August — during this week, we start

Su	Mo	Tu	We	Th	Fr	Sa			
	26		28		30		introductions, CH 1 - Physics and Measurement, CH 2 - Motion in One Dimension		

September

Su	Mo	Tu	We	Th	Fr	Sa			
	[2]		4		6				
	9		11		13Q		CH 3 - Vectors	[Fri: Quiz on Ch 2]	
	16		18		20Q		CH 4 - Motion in Two Dimensions	[Fri: Quiz on Ch 3]	
	23		25		27X		CH 5 - The Laws of Motion	[Fri: Take-Home EXAM Ch 1-4]	
	30								

October

Su	Mo	Tu	We	Th	Fr	Sa			
			2		4Q		CH 6 - Circular Motion	[Fri: Quiz on Ch 5]	
	7		9		11R				
	14X		16		18		MIDTERM (in class)	[Mon: In-Class MIDTERM Ch 1-6]	
							CH 7 - Work and Kinetic Energy		
	21		23Q		25		CH 8 - Potential Energy and Conservation of Energy	[Wed: Quiz on Ch 7]	
	28		[30]						

November

Su	Mo	Tu	We	Th	Fr	Sa			
					1X		CH 9 - Linear Momentum and Collisions	[Fri: Take-Home EXAM Ch 7-8]	
	4		6		8Q		CH 10 - Rotation of a Rigid Object About a Fixed Axis	[Fri: Quiz on Ch 9]	
	11		13		15Q		CH 11 - Rolling Motion and Angular Momentum	[Fri: Quiz on Ch 10-11]	
	18		20		22X		CH 12 - Static Equilibrium and Elasticity	[Fri: Take-Home EXAM Ch 10-11]	
	25		27	[28	29]		CH 13 - Oscillatory Motion, CH 14 - The Law of Gravity		

December

Su	Mo	Tu	We	Th	Fr	Sa			
	2QR		[4	5]	[F		review for final	[Mon: Quiz on Ch 13,14]	
	I	N	A	L]				[tba: In-Class FINAL Ch 1-14]	

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