

General Physics II

PHYS 2123-002 Spring 2007

Instructor: Dr. Kevin Storr
Text: *Essentials of College Physics, Serway & Vuille*
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Classroom: New Classroom Building, Room A103
Course Website: <http://www.i2i.pvamu.edu/physics/kevinstorr.htm>
Homework Website: <http://hw.utexas.edu>
Course ID HW: 27004

Time	Office Hours
M W F 9:00am – 9:50am	M W F: 10am – 11:30am Wed: 1 - 2

NOTE

This syllabus is tenuous at best; Exams and Homework **are subject to change**. The subject matter in the lectures will follow the text; however minor, additional relevant material may be presented from information not found in the text.

COURSE DESCRIPTION

3 Credit semester hours. The goal of this course is to teach a non-calculus based approach to Electricity and Magnetism and Modern Physics. There will be additional emphasis given to its uses in the areas of Biology, Computer Engineering and Chemistry.

COURSE POLICIES

This course will use several instructional format to increase students understanding and retention of subject matter. Selected materials in each chapter will be covered during the lectures. Students should read the entire assigned chapters prior to class as lectures alone are insufficient for material proficiency. Lecture will be used to amplify and explain the materials found in the textbook. Homework problems will be assigned during the entire semester for each chapter covered and will be done online via the website hw.utexas.edu. Students are also required to keep a homework journal as part of the homework process. The journal is comprised of all **completed** projects/problems in a separate notebook/folder. This will be collected at announced times during the semester. Any student unable to solve a particular assigned problem(s) should participate in help sessions- recitation & tutorial. Pop quizzes may be given occasionally on covered materials and will be counted as extra credit. It is expected that you will need to spend at least two hours studying outside the class for each hour spent in class (**minimum of 6 total hours per week**).

You should also be currently enrolled in PHYS-2121 laboratory.

COURSE OUTCOMES

This course is designed to cater to students with limited science background and experience. Following its completion students will:

1. Have a fundamental understanding of Electricity and Magnetism.
2. Several applications in the student's individual area of study.
3. Be able to comfortably communicate this understanding to others with the same or less science background.
4. Be able to appreciate on a larger level basic science as espoused in newspapers and other media designed for the masses.
5. Demonstrate proficiency and mastery of course content presented.

REQUIREMENTS

1. Each week a set of homework questions or project shall be assigned from the text, which will assist in determining your competency of the information presented. Assignments are due on specified due dates and times; additional time need not be requested. **Better Never, than Late!**
2. Exams will be periodically given following the completion of every even chapter. There will be a comprehensive final exam given at semester's end.
3. Makeup exams and quizzes are not offered, so please **do not ask**. Instead, the lowest grade on the exams shall be dropped. The only valid excuses for missing an exam or failing to turn in homework on time are illnesses requiring medical care, **required** college activities or a personal emergency of a **serious nature**. To be excused without penalty, you must contact me as soon as possible and provide **documentation** or have received **prior permission**. In such cases only a week is allowed for a makeup. Work conflicts, computer or car problems, forgetting or oversleeping are not valid excuses. Arrangements can be made **ONLY** if you have contacted me before the exams are returned (generally the next class period).
4. In the remote cases whereby late work is allowed, the maximum allowed score is 50% of the total.
5. Please turn off all cell phones and beepers when entering the classroom.
6. If you miss class contact a peer for information missed. I am not responsible for getting lecture notes to you.
7. **Academic Dishonesty/Cheating:** You are responsible to know the elements of academic dishonesty, plagiarism, cheating etc., as set forth in PVAMU *Student Handbook*. PVAMU allows no form of collaboration in the preparation of papers or in the taking of quizzes or exams. Work on paper, quizzes, and exams must be totally your own. You should neither request nor give help. The penalty for violating the PVAMU Academic Honor Code in this class is a score of zero for the quiz, exam, or paper in which the violation occurs.

HOW TO SUCCEED IN PHYS 2123

1. Attend **EVERY** class.
2. **READ** the assigned chapter **BEFORE** class.
3. Do **NOT** wait until the day before the exam to study. Review notes **DAILY**.
4. Check with your instructor as soon as possible if you do not understand a concept.
5. Plan **TWO (2) hours, THREE** times a week to provide sufficient study time to cover reading, homework, and review.
6. **Form a Study Group. Your study group can provide information that you might miss in class and provide a forum for questions and regular review of class material.**

STUDY GROUP MEMBERS:

NAME: _____	NAME: _____
Phone: _____	Phone: _____
Email: _____	Email: _____
NAME: _____	NAME: _____
Phone: _____	Phone: _____
Email: _____	Email: _____
NAME: _____	NAME: _____
Phone: _____	Phone: _____
Email: _____	Email: _____

GRADING SCHEME

Assignment	Points	Grade	Scale (% of total points)
Final	40	A	90 – 100
Exams	30	B	80 – 89.99
Homework	20	C	70 – 79.99
Term Project	10	D	60 – 69.99
		F	Below 60
Total	100 points		

Keep records of all quizzes, exams & homework to verify recorded grades.

I DO NOT CURVE!!!

Semester Schedule (subject to change)

Week (Starting on)	Topic	Note
1 (Jan. 22)	Ch. 15: Electric Forces and Electric Fields	
2 (Jan. 29)	Ch. 15: Electric Forces and Electric Fields	
3 (Feb. 5)	Ch. 16: Electric Energy and Capacitance	Exam # 1
4 (Feb. 12)	Ch. 16: Electric Energy and Capacitance	
5 (Feb. 19)	Ch. 17: Current and Resistance	Exam # 2
6 (Feb. 26)	Ch. 18 Direct-Current Circuits	
7 (Mar. 5)	Ch. 19: Magnetism	Exam # 3
8 (Mar. 12)	SPRING BREAK	
9 (Mar. 19)	Ch. 19: Magnetism	
10 (Mar. 26)	Ch. 20 Induced Voltages and Inductance	Exam # 4
11 (Apr. 2)	Ch. 21 Alternating Current Circuits and Electromagnetic Waves	
12 (Apr. 9)	Ch. 26 Biological-Physics Applications	Exam # 5
13 (Apr. 16)	Ch. 27 Chemistry and Physics	
14 (Apr. 23)	Ch. 16 Physics of Computers	Term Project
15 (Apr. 30)	REVIEW, STUDY & FINALS PERIOD	
16 (May. 7)	FINALS EXAMINATION PERIOD	FINAL EXAM