

# PHYS 2121-002, General Physics I

## Spring Semester, 2007

**Instructor:** Dr. Kevin Storr  
**Office:** NSCI-330H **Phone:** 936-261-3132  
**Office Hours:** M W F: 10am – 11:30am; Wed. 1pm – 2pm

**Meeting Place and Time:** This Laboratory meets every Friday of the Spring Semester (except the first week and after the lab final) in room NSCI 307, from 2:00pm to 4:50pm. Every effort should be made to be on time, since we will start at exactly 2:00pm. Although a few of the labs may not last until 4:50pm, it is important to be on time and prepared to stay the entire period.

**Objectives:** To enable students to have a hands-on experience with the physical laws, especially those dealing with Newtonian mechanics (the focus of this Laboratory). This lab will also strengthen students' skills in the use of a laboratory, skills which include choosing an approach, solving a problem, following safety procedures, etc.

**Lab Reports & Attendance:** The lab report will be due a week after at the beginning of the next week's lab. All labs are to be individual efforts in write-ups, however students are expected to work in groups during the labs. A student can make up one missed lab by the end of the semester (note the Lab Make-up day scheduled for one week before the exam).

**Grading:** For most labs, each group will be provided with a lab report; the group must complete the data, data analysis and conclusion sections for up to 10 points credit. The labs will be averaged with the grading scale being:

<b>A</b>	90%+	<b>B</b>	79.99 – 89.99%	<b>C</b>	69.99 – 79.99%
<b>D</b>	59.99 – 69.99%	<b>F</b>	anything below 59.99%		

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### Prairie View A&M University Policy Statements

**Attendance Policy:** Prairie View A&M University requires regular class attendance. Excessive absences will result in lowered grades. Excessive Absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in assignment of a grade of "F." Absences are accumulated beginning with the first day of class.

**Student Academic Appeals Process:** Authority and responsibility for assigning grades rests with the faculty. However, in those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

**ADA Statement:** Students with disabilities who believe they may need an adjustment in this class are encouraged to contact the Office of Disabilities Services at (936) 857-2693/2694 as soon as possible. Once you receive a letter of adjustment from the office, kindly make an appointment with me to discuss appropriate adjustments for this class.

**Cheating and Plagiarism:** Prairie View A&M University is dedicated to a high standard of academic integrity among its faculty and students. In becoming part of the Prairie View A&M academic community, students are responsible for honesty and independent effort. Disciplinary action will be taken against any student who alone or with others engages in any act of academic fraud or deceit.

**Grade of "I":** A grade of "I" may be given in cases of documented emergencies or tragedies that prohibit a student from completing a course. In order to receive a grade of "I", approval must be granted by the Department Head and Dean.

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The tentative schedule of 12 meetings this semester includes 10 lab exercises as outlined below:

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### **COURSE OUTLINE**

<b>Week of</b>	<b>TOPIC</b>	<b>NOTE</b>
1 (Jan. 15)	<b>No Lab the first week!</b>	<b>Jan 15, 2007: Dr. Martin Luther King Jr. Day (University Closed)</b>
2 (Jan. 22)	<b>Lab 1:</b> Simple harmonic motion: Hooke's law	
3 (Jan. 29)	<b>Lab 2:</b> Simple harmonic motion: Simple pendulum	
4 (Feb. 05)	<b>Lab 3:</b> The speed of sound in air, or standing waves with vibrating strings.	
5 (Feb. 12)	<b>Lab 4:</b> Coefficient of linear expansion of metals	
6 (Feb. 19)	<b>Lab 5:</b> Calorimetry: the melting of ice (heats of fusion and vaporization of water), or Boyle's law: Finding the absolute zero (Gay Lussac's law)	
7 (Feb. 26)	<b>Lab 6:</b> Ohm's law	
8 (Mar. 05)	<b>Lab 7:</b> Series and parallel circuits	
9 (Mar. 12)	<b>NO LABS</b>	<b>SPRING BREAK WEEK</b>
10 (Mar. 19 )	<b>Lab 8:</b> Resistivity	
11 (Mar. 26)	<b>Lab 9:</b> Computer experiment simulation (thermodynamics, electricity & magnetism, optics, or modern physics ; Physics Learning Center)	
12 (Apr. 02)	<b>Lab 10:</b> Index of refraction of laser light	
13 (Apr. 09)	<b>Lab 11:</b> [Optional]	
14 (Apr. 16)	<b>Lab 12:</b> [Optional]	
15 (Apr. 23)	<b>Lab Make-up</b>	
16 (Apr. 30)	<b>Lab Test</b>	

**THIS SCHEDULE IS VARIABLE**