

PHYS 2121 – GENERAL PHYSICS LAB II

Fall Semester 2008

Section PHYS-2121-001, M 2:00 PM to 4:50 PM; New Science Building Room 301

Associate Professor	Dr. ORION CIFTJA	Office Hours	M. 10-12, 1-2; T. 11-2; W. 10-12; 1-2; F. 10-12, 1-2
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CATALOG DESCRIPTION: Semester credit hours: 1. General physics laboratory to include hands-on and computer-based experiments on concepts of electricity, Coulomb's law, electric field, Ohm's law, series and parallel circuits, resistivity, magnetism, induced electromagnetic force, Faraday's law, etc.

PREREQUISITE: None

TEXTBOOK: Physics 2121 Laboratory Manual (available online); Physics Laboratory Experiments, 5th Ed., by Wilson, J.D (Optional)

COURSE GOAL: This lab enables students to have a hands-on experience with various physical laws especially those dealing with Electricity and Magnetism. This lab will also strengthen student's skills on how to approach and solve problems involving electromagnetic phenomena, devices, etc.

COURSE POLICIES: The lab report will be due on the session in which the lab is performed. Each group will hand in one lab report for each laboratory session, containing the names of the members of the group. Attendance is required therefore is the responsibility of the students to make sure their names appear in the submitted lab reports (NO EXCUSES ACCEPTED!). No grade is given for a missed lab. Students can make up ONLY one missed lab by the end of the semester (note the Lab Make-up day scheduled in the final week before the Lab test). Opportunities for extra credit may be given in some of the labs.

GRADING: All lab reports will be graded. A final theory test (with focus on the concepts mentioned in the lab) may be given if chosen so by the professor. The laboratory reports worth 50 points are group projects, but the final theory test worth 20 points (if given) must be an individual endeavor. Based into a percentage scale of total points earned relative to the maximum of points available, the grading system is as follows:

90 – 100	A
80 - 89	B
70 - 79	C
60 - 69	D
0 - 59	F

ORAL AND WRITTEN COMMUNICATIONS: Oral or written communication will be given through exams, homework, classroom, individual discussion, and use of optional web-based materials.

ATTENDANCE POLICY: Class will start and end at the prescribed times. Attendance at every class is expected and is each student's responsibility. Absence or tardiness may result in lowered grades. Excessive absenteeism, whether EXCUSED or UNEXCUSED, may result in a student's course grade being reduced or assignment of a grade of "F". Absences are accumulated beginning with the first day of class. The University Undergraduate Catalog provides more detailed information.

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 University 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 "T": A grade of "T" 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 "T", approval must be granted by the Department Head and College Dean.

COURSE OUTLINE

Week (Starting on)	Topic	Note
1 (Aug. 25)	No Lab the first week!	
2 (Sept. 1)	Lab 1: Re-Introduction to Data Analysis; Absolute Zero or Thermal Linear Expansion	
3 (Sept. 8)	Lab 2: Electric Potential and Field Mapping	
4 (Sept. 15)	Lab 3: Resistivity	
5 (Sept. 22)	Lab 4: Ohm's Law: Series and parallel circuits	
6 (Sept. 29)	Lab 5: RC Circuits	
7 (Oct. 6)	Lab 6: Magnetic Field Lines and Magnetic Forces	NO LABS ONE WEEK BEFORE THE MIDTERM EXAMS
8 (Oct. 13)	Lab 7: Magnetic Induction	
9 (Oct. 20)	Lab 8: RLC Circuits	
10 (Oct. 27)	Lab 9: Reflection and Refraction of Laser Light	
11 (Nov. 3)	Lab 10: Convex and Concave Lenses or Diffraction Grating	
12 (Nov. 10)	Lab 11: [Optional/CAPSTONE]	
13 (Nov. 17)	Lab 12: [Optional/CAPSTONE]	
14 (Nov. 24)	Lab Make-up	
15 (Dec. 1)	Lab Test	Review, Study and Final Exams

THIS SCHEDULE IS VARIABLE