

PHYS 2511: University Physics Laboratory I

Spring Semester 2010

Instructor	Dr. Fred Wang (P01) Dr. Orion Ciftja (P02)	Office Hours	Dr Wang: T 11-12:20PM R 2-5 PM
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Phone	936-261-3131 and 3137	Time & Place	P01: M 2 -5 PM, Room 307 P02: T 2 -5 PM, Room 307

The tentative schedule of 11 meetings this semester includes 10 lab exercises and a make-up lab, and is outlined below (section P01 meets on Mondays; section P02 meets on Tuesdays):

- LAB 1 (Jan 25/26): Introduction to Measurement; Calculation of Density
- LAB 2 (Feb 1/2): Vectors on a Force Table
- LAB 3 (Feb 8/9): Free Fall and Projectile Motion
- LAB 4 (Feb 15/16): Static and Kinetic Friction
- LAB 5 (Feb 22/23): Centripetal Force
- LAB 6 (Mar 1/2): Hooke's Law for a Spring
- No Lab week of March 8 – Mid-Term Week
- No Lab week of March 15 – Spring Break
- LAB 7 (Mar 22/23): Simple Pendulum
- LAB 8 (Mar 29/30): Momentum Conservation
- LAB 9 (Apr 5/6): Torque, Equilibrium, and Center of Gravity
- LAB 10 (Apr 12/13): Rotational Inertia
- Make-Up Lab (Apr 19/20): Waves on a String

Meeting Place and Time: This Laboratory meets in room NSCI 307, from 2:00pm to 4:50pm. Section P01 meets on Mondays; section P02 meets on Tuesdays. Every effort should be made to be on time, since we will start at exactly 2:00pm, and pre-labs (see below) will not be accepted after 2:05pm. 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. A lab manual can be found at Prof. Erickson's web page (go to "Physics", "People", and click on Prof. Erickson).

Objectives: To enable students to have a hands-on experience with the physical laws, especially those dealing with electricity, magnetism and light (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: A pre-lab report will be due from each student at the start of each lab (except Lab 1). Groups of 3 or 4 students (depending on class size) will work at each experimental setup. Each group will turn in a group lab report in the format described in class. The group lab report will be due at the end of class. Attendance is required and a roll will be taken. Each student is required to perform 10 laboratory exercises. No grade is given for lab periods where the student does not have a valid excuse for missing the lab or if a student fails to participate in the lab exercise. A student can make up one missed lab by participating in the make-up lab at the end of the semester (note the make-up lab scheduled on 4/21).

Grading: Prior to each lab, students will be provided with a lab report; individuals must complete the pre-lab questions to be turned in at the start of lab; the group must complete the data, data analysis and conclusion sections. The pre-lab will count for 30% of the final grade, while the group lab report will count for 70%. If after fair warning, a member of a group is not contributing to the performance and/or reporting of an experiment, that person's name may be excluded from the report and that person would be regarded as absent. Anticipate that a cumulative performance of 20% is required for a "D", 40% for a "C", 60% for a "B", and 80% for an "A" as your final grade in the course. In addition, a student will be penalized one letter grade for each unexcused missed lab.

University Rules and Procedures

Disability statement (See Student Handbook):

Students with disabilities, including learning disabilities, who wish to request accommodations in class, should register with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements may be made. In accordance with federal laws, a student requesting special accommodations must provide documentation of their disability to the SSD coordinator.

Academic misconduct (See Student Handbook):

You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.

Forms of academic dishonesty:

1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.
2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.
3. Fabrication: use of invented information or falsified research.
4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else's words, ideas, or data as one's own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one's own work also constitutes plagiarism.

Nonacademic misconduct (See Student Handbook)

The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either (1) the instructor's ability to conduct the class, (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.

Sexual misconduct (See Student Handbook):

Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.

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 to students 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.