

Calculus-Based Physics I Laboratory, PHY 2048L, Fall '09, UNF

Meeting: 50/2802

Friday: 1:00 PM - 3:50 PM (CRN 80829)

Lab Assistant: Lawrence K. Mao

Lab Supervisor: Dr. Hong Chen

Office: 050/1502, **Office Hours:**

Monday:	6:30 PM - 7:20 PM,
Tuesday:	6:30 PM - 7:20 PM,
Wednesday:	6:30 PM - 7:20 PM,
Thursday:	6:30 PM - 7:20 PM,
Friday:	4:00 PM - 4:30 PM, and by appointment.

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Prerequisites:

Laboratory exercises to accompany **PHY 2048**.

Text:

Physics I Laboratory Manual, is available from the UNF Bookstore.

Central Student Outcomes of General Education:

(For the complete list of Central Student Outcomes of General Education, please visit <http://www.unf.edu/coas/gened/geoutcomes.html>.)

- I. Skills: Students should be able to:
 - A. Think critically, reason soundly, and argue effectively, as demonstrated by the ability to:
 3. use systematic processes, including collection and analysis of evidence, to form and support conclusions.
 - B. demonstrate competence in the use of information technology, as demonstrated by the ability to:
 2. use appropriate software for developing written and graphic materials and for organizing, analyzing, and presenting data
 - C. communicate effectively, as demonstrated by the ability to:
 1. write coherent analytical and persuasive papers using effective expression
- II. Knowledge: Students should know:
 - A. The natural and designed world,
 2. demonstrating a general acknowledge of the methods and traditions of analysis in the natural sciences
 - D. Mathematical and Quantitative Reasoning: Students should know:
 2. demonstrating proficiency in solving problems using mathematical concepts and quantitative reasoning

Preparation and Procedures:

To satisfy the Central Student Outcomes of General Education, students will require to show the ability to use the computer to organize, analyze, and present data in a coherent and logical scientific (mathematical) ways in your lab report. Students will draw conclusions about natural phenomena based on those results/observations. It is hoped this will help students learn to use the scientific method to solve problems and evaluate ideas in a logical manner.

Students are responsible for preparing for each laboratory meeting by reading over the material for the scheduled lab exercise, as identified in the tentative scheduled or otherwise announced in class, before coming to lab each week. To verify that you are prepared, a 15 minutes quiz at the beginning of each lab will be given on the procedure for that lab.

Attendance and Grading:

You are expected to attend every session of your lab section. But if you have to miss a lab, then you must do a make-up by attending another section of the same week or your grade will be adversely affected unless you have an emergency excuse like a note from a doctor or a hospital. **No make-up labs or quizzes will be given at the end of the semester.**

The laboratory report needs to be completed in ink (either blue or black pen) and turned in at the end of each lab session. Points ranging from 1 to 10 will be assigned depending on how well you understand the concept of that experiment.

The letter grades assigned in this class are: **A, A-, B+, B, B-, C+, C, D, F, and I.** The course grade will be determined from the following items: Class Participation (as judged by the instructor)--10%, Quizzes--30%, and Laboratory Reports—60%.

There won't be a final exam in this lab!!!