SYLLABUS

PHY 2048L (Section 33011)
Physics with Calculus I Lab

Term - Fall, 2012

Instructor’s Name: Desi Saludes
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Office Location: BSCI 108B
Telephone Number: (813) 253-7842

Web Page: https://www.hccfl.edu/faculty-info/dsaludes.aspx

Office Hours: Please see my weekly schedule posted at our webpage (above) or on my office window. In addition to the regular posted office hours, I can meet with you by appointment at other mutually agreeable times throughout the week.

Class Schedule: Tuesdays 7:30 – 10:00 PM

Course Description: Laboratory class to accompany and augment PHY2048, which is the first semester of a two-semester sequence of general physics (mechanics, wave motion, sound, thermodynamics, optics, electricity and magnetism, selected topics from modern physics). College level reading, writing, and math skills are required.

Prerequisites: Successful completion of MAC 2311 and PHY 1025, both with a grade of C or better.

Correquisite: Students MUST be registered in section 33008 of PHY2048. No exceptions will be permitted.

Course Objectives: The student will demonstrate proficiency in the following areas:
  * Understanding the relationship between the concepts learned in the lecture class and the experiments performed in the lab.
  * Performing computer-based collection of physical data (position, velocity, acceleration, force, mass, etc.)
  * Using data analysis software to graph and analyze collected data
  * Identifying potential sources of error and uncertainty in an experiment, and suggesting solutions to minimize errors and uncertainties.
  * Creating college-level laboratory experiment reports, including theoretical explanation to the experimental setup and cogent analyses of results.


Grading System: The Grading policy outlined in the 2012-2013 HCC Catalog will be followed. The final grade will be determined by averaging together the grades from laboratory reports and the final lab exam with the following weights:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Reports</td>
<td>50%</td>
</tr>
<tr>
<td>Final Lab Exam</td>
<td>50%</td>
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</tbody>
</table>
The following grading scale will be used for calculating the final grade:

<table>
<thead>
<tr>
<th>Range</th>
<th>Grade</th>
</tr>
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<tbody>
<tr>
<td>90 - 100</td>
<td>A</td>
</tr>
<tr>
<td>80 - 89</td>
<td>B</td>
</tr>
<tr>
<td>70 - 79</td>
<td>C</td>
</tr>
<tr>
<td>60 - 69</td>
<td>D</td>
</tr>
<tr>
<td>59 or Below</td>
<td>F</td>
</tr>
</tbody>
</table>

**Academic Dishonesty Policy:** Any student caught engaging in any form of academic dishonesty will be given either a "0" grade on that report or an "F" as the final course grade, at the discretion of the instructor. Be aware that plagiarism in any form on your lab reports will be considered academic dishonesty. **Use your own words!**

**Attendance Policy:** Missing a lab class will make it impossible for a student to create a laboratory report for that experiment, resulting in a zero grade for that report. Students arriving late for the lab class will not be allowed to participate in the class, as missing the preliminary explanation of the lab will cause safety concerns and also make it impossible for the student to understand the purpose and procedures of the experiment.

**Instructional Methods:** The class will consist of an explanation and demonstration of the experiment by the instructor, followed by laboratory time to perform the experiment. Arriving late to class will make it impossible for a student to successfully complete the experiment, and will result in a zero grade for that report.

**Lab Reports:** Students will write lab reports for two of the experiments performed over the course of the semester. The lab experiments which will require reports will be announced in class. All lab reports are due at the instructor’s desk at the **beginning** of the following lab period (usually one week after the experiment is performed). Lab reports turned in after the **beginning** of the lab period on the specified due dates will be subject to a 10 point (out of 100) penalty per day.

All lab reports must contain:

a. Your name, the experiment title, date performed, course name and course number.

b. A statement of the purpose of the experiment and a clear explanation of the methods used, including any relevant theory and mathematical derivations.

c. All data clearly and neatly recorded or and/or graphed.

d. Any additional graphs specified in the lab, properly labeled.

e. Answers to all assigned questions and/or problems.

f. Results, including % error and/or % difference calculations, and a discussion of uncertainty in the experiment.

g. **Most importantly,** an intelligent analysis and discussion of your results and conclusions. Show me what you learned from the experiment.

All lab reports must be typed, professional-looking and neatly organized, with graphs and tables all properly labeled and captioned. The physical presentation of the lab report will be considered in the grading process, as will the grammar, spelling and writing structure. It is highly recommended that students take their lab reports to the HCC writing center for revision and corrective suggestions before turning them in for grading.

**Important Notice:** Although formal lab reports will only be required for two of the experiments, the final lab quiz will be based on all of the experiments performed during the semester. It is therefore recommended that each student maintain a separate lab journal with notes and observations from each of the experiments.

**Request for Accommodation:** Any student whose disability falls within the American Disabilities Act (ADA) and requires accommodations should contact the Office of Services for Students with Disabilities. The Brandon office is located in the Student Service Building Room 109. You may also reach the office by phone at (813) 253-7914. Requests for accommodations should be submitted to the instructor within the first two weeks of the course.
Religious Observances:
HCC will reasonably accommodate the religious observances, practices, and beliefs of students in its admissions, class attendance, and examination policies and work assignments. Students must notify instructors at least one week prior to a religious observance.

Recording of Class Sessions:
A student shall not, without my express authorization, make or receive any recording, including but not limited to audio and video recordings, of any class, co-curricular meeting, organizational meeting, or meeting with me. Further, it is not permissible to post my class lectures/course materials on the web.

Equity/Equal Access Policy:
Hillsborough Community College is an equal access/equal opportunity employer that makes employment and education-related decisions without regard to race, color, gender, religion, national origin, age, disability, sexual orientation, marital status or any other bias that is or may be prohibited by laws. In addition, the college does not discriminate in employment practices or in the admission and treatment of students. HCC is committed to equitable treatment for all students and employees and to a learning and working environment free of discrimination and harassment for current as well as future students and employees. The college provides equal educational opportunities for qualified individuals with disabilities and complies with, as well as, supports the Americans with Disabilities Act. HCC’s Equity Officer ensures compliance with federal and state laws prohibiting discrimination and sexual harassment.