

SYLLABUS 1025L- 47746- Fundamentals of Physics Laboratory- Summer 2013 - 1 cr. hr.**Instructor's Name:** Nilanthi Warnasooriya**Office Location:** DSCS 126**Email Address:** nwarnasooriya@hccfl.edu**Telephone Number:** (813) 253-7252**Lab Manual (Required):** Fundamentals of Physics, PHY 1025L, Prepared by Dr. Dale L. Thompson**Lab Schedule:** Tuesdays AND Thursdays 12:00 -2:30 PM**Lab Location:** DSCS 133**Office Hours:** Tuesday 2:30 PM – 4:00 PM by appointment only.**Course Description:**

This course is designed as a hands-on supplement to Fundamentals of Physics lecture. Topics include: measurement techniques, graphical analysis of data, study of bodies at rest or in motion, heat, sound, light, and electrical experiments, and introduction to computer applications.

Prerequisite: College reading, writing skills and math skills are required.**Co-requisite:** PHY-1025**Grading System:****Each lab is worth 25 points.**

Lab reports will be graded for student performance, accuracy and completeness.

Each lab report must include:

- First page including title of the lab, student's name, partner's name, date (1 point)
- Data sheets (8 points)
- Calculations (10 points)
- Discussion (6 points)

All measurements must have correct units. Final results should be given with correct units (if any).

2 points will be deducted from the total lab score, if you forget the manual and/or lab instruction sheets.

The lowest lab score will be dropped when calculating the final lab grade.

The final grade is the average of the total lab scores. The following grading scale will be used:

A: 90 – 100 B: 80 – 89 C: 70 – 79 D: 60 – 69 F: 59 or below

Lab Groups:

Students will be working in groups of two (maximum 3).

Handing in Work:

All work sheets should be turned in on paper at the end of the lab period. You MUST write your name and section number clearly on each paper and STAPLE everything together. Late lab reports will not be accepted. You should read the relevant sections in the lab manual before attending the lab.

Missed Labs:

There will be no makeup labs. If you miss one lab for any reason, that lab will be considered as your lowest lab score and will be dropped when calculating the final lab grade. If you miss more than one lab, still ONLY ONE lab score will be dropped.

Attendance Policy:

Attendance is required. Roll will be taken at the start of each class. In addition, the attendance policy outlined in the current HCC Catalog will be followed. It is your responsibility to sign the attendance sheet.

You must come to the lab on time. **If you are 15 minutes (or more) late, 5 points will be deducted from your lab score.** In addition to missing explanations/demonstrations, late comers will be a distraction to his/her lab partners as they slow down the experiment.

No cellphones during labs !!! Turn off cellphones before the lab starts. I will deduct 5 points from your lab score each time you text or answer calls during the lab.

No food or drink in the laboratory!

Communication Policy: Students are encouraged to express their ideas freely in the class or by email. However, students are expected to be polite and respectful to classmates and the instructor. I prefer email communication outside the class and office hours. Include your name and section number in the subject line. Please do not leave telephone messages. **Check your HCC email and Blackboard course page (MyHCC) daily for class announcements.**

Notes & Tapes: A student shall not, without the faculty member's 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 a faculty member. Further, the student does not have permission to post class lectures or course lectures on the web.

Academic Dishonesty Policy: Any student caught cheating on an exam or engaging in any other form of academic dishonesty will be given either a "0" grade on that exam or an "F" as the final course grade, at the discretion of the instructor.

Request for Accommodations: If, to participate in this course, you require an accommodation due to a physical or learning impairment, you must contact the office of Student Services to Students with Disabilities. The office is located in the Student Services Building, room 204 or call (voice) 813-259-6035.

Request for a "W" Grade: The instructor will not award a "W" or approve a "W" after the deadline.

Request for an "I" Grade: An "I" grade will only be awarded in the event of an emergency or extenuating circumstances. To be eligible for an "I" grade more than 2/3 of the course must be completed with a passing grade. A student must arrange to receive an "I" grade before the Final.

Tentative Laboratory Schedule PHY-1025L-38801

#	Tuesday		Thursday	
1	May 14	Introduction Lab Safety Rules Introduction to Logger Pro	May 16	Units & Conversions
2	May 21	OPEN	May 23	Graphical Analysis
3	May 28	Simulation of Motion using EXCEL Spreadsheets	May 30	Newton's 2 nd Law of Motion *
4	June 04	OPEN	June 06	Conservation of Momentum
5	June 11	Conservation of Energy *	June 13	Torque *
6	June 18	Simple Pendulum	June 20	Projectile Motion
7	June 25	OPEN	June 27	Archimedes Principle
8	July 02	Calorimetry*	July 04	Independence Day – No Class
9	July 09	Speed of Sound	July 11	A Study of Resistors
10	July 16	OPEN	July 18	OPEN

*Lab procedure will be posted on MyHCC course page.

Chapter sequence is subject to change and any changes will be announced in class or via email.

Canceled Lab: If a lab is canceled for any reason, that lab will be skipped and the rest of the sequence will not be changed.