

GENERAL PHYSICS I LABORATORY (419606)

COURSE: PHY2053L; *General Physics I Laboratory*

CREDIT HOURS: 1

PRE-REQUISITE: MTB1322 or MAC1133

CO-REQUISITE: PHY2053

TIME: Wednesday, 9:00 to 10:50 AM

CLASSROOM: 7-277

INSTRUCTOR: David Michael Judd

OFFICE: 7-142 **PHONE:** 954-201-6707 (There is voicemail at this number!)

TEXT: *Laboratory Manual for PHY2053L*

(<http://browardcentralscience.org/judd.htm>)

AUTHOR: David Michael Judd

CATALOG DESCRIPTION: Laboratories designed to accompany the topics under study in PHY2053.

COURSE OUTCOMES:

- 1.0 The students should be able to perform experiments correctly and collect data accurately.
- 2.0 The students should be able to analyze the data collected for the purpose of forming conclusions.

PHY2053L Laboratory Schedule

<i>Date</i>	<i>Topic</i>
1/ 11	Laboratory Introduction and Safety Review
18	Measurement and Uncertainty
25	Addition and Resolution of Vectors
2/ 1	Projectile Motion
8	Constant Acceleration
15	Circular Motion; (Read the Lecture on Circular Motion for the Theory)
22	The Simple Pendulum
29	Simple Harmonic Motion
3/ 7	No Lab
14	Torques and Rotational Equilibrium; (Read the Lecture on Torques for the Theory)
21	The Moment of Inertia
28	The Period of a Physical Pendulum
4/ 4	The Ballistic Pendulum
11	Standing Waves on a String
18	Makeup Lab: Thermal Coefficient of Linear Expansion

EVALUATION OF STUDENTS:

ATTENDANCE: You are expected to come to scheduled labs and to **be on time with your lab materials!** While in the lab, I expect your **undivided attention** to the laboratory exercise being performed that day; you are not to be working on finishing old lab reports until you have finished the day's scheduled lab. You are expected to **work quietly and safely**. Failure to comply with correct lab procedures may result in your being removed from the lab and getting a zero for that lab. **Never turn in a lab report for a lab you did not attend.** You will get an F for that lab.

GRADING: **Your grade will be determined by averaging your 11 best lab report scores.**

SCALE:	90	A
	80	B
	70	C
	60	D
	< 60	F

LAB REPORTS:

In general, each experiment will require a written lab report to be turned in. This report will contain a cover sheet, data sheets, answers to questions asked, and graphs, when appropriate. In class, I will give more detail on the format of the reports. Except for the last lab, lab reports will be due at the **very beginning of the next scheduled lab**. The last lab report needs to be in my mailbox by April 24, 2012.

OFFICE HOURS:

My tentative office schedule is given below. I am also happy to schedule appointments if needed.

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8 : 00		Office	Office	Office	B
8 : 30		Office	Office	Office	Y
9 : 00		PHY2053L	PHY2053L	Office	
9 : 30		PHY2053L	PHY2053L	Office	A
10 : 00		PHY2053L	PHY2053L	PHY2054	P
10 : 30		PHY2053L	PHY2053L	PHY2054	P
11 : 00	PHY2053	PHY2054	PHY2053	PHY2054	O
11 : 30	PHY2053	PHY2054	PHY2053	PHY2054	I
12 : 00	PHY2053	PHY2054	PHY2053	PHY2054	N
12 : 30	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	T
1 : 00	Office	PHY2053L			M
1 : 30	Office	PHY2053L			E
2 : 00	PHY2053	PHY2053L	PHY2053	PHY2054L	N
2 : 30	PHY2053	PHY2053L	PHY2053	PHY2054L	T
3 : 00	PHY2053	Office	PHY2053	PHY2054L	
3 : 30	PHY2054	Office	Office	PHY2054L	O
4 : 00	PHY2054				N
4 : 30	PHY2054				L
5 : 00	PHY2054				Y
5 : 30	PHY2054				
6 : 00	PHY2054				
6 : 30					
7 : 00					