Laboratory for Introductory Physics for Life Sciences (I)

PHY 123 Fall 2015

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About

This is the organizational page for the Physics Introductory Labs PHY 123 for Fall 2015.

Instructors	Director of UG Laboratory	Teaching Assistants
K. Dehmelt	B. Nielsen	Evan Philip, Peter Jones, Irina Petruchina,
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A. Deshpande (Principal) abhay.deshpande@stonybrook.edu		Yanzhu Chen, Olivia Chisman

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Scope

The scope of the introductory labs is to give an understanding of basic experimental methods applied in physical sciences. The experiments performed during the lab sessions are closely related to the topics covered in the lecture.

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Overview

You will perform each week an experiment as indicated in the Calendar section. You have 1 hr 50 min time to perform each experiment. This time includes finalizing your report for the session that you will have to submit to your teaching assistant at the end of the session.
Your perfomance in the lab session will be evaluated by your teaching assistant. The evaluation is based on an interview that will be conducted in form of a quiz at the beginning of the session and your performance during the experiment that includes a final report to be submitted at the end of the session.
The interview will determine how well you are prepared for that particular experiment which is very important for the successful accomplishment of the experiment. The interview will count 20% toward your grade on the particular lab experiment.
Your performance/report will count 80% toward your grade on the particular lab experiment.

You are required to perform each lab experiment by yourself, mostly together with a lab partner.
If you need to be absent for a lab experiment you will have to provide written documentation for a significant

reason to be absent, e.g., a medical note from your doctor, a written document about jury duty, and similar. You will then have the opportunity to make up the lab experiment in the dedicated make-up week. If you are absent for a non-excusable reason your lab grade for that particular experiment will be Zero (0) points!

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Calendar

The first lab sessions will take place in the week starting from **Monday, August 31**.

For grading policy and methods please refer to:

Prof. Hobbs PHY 121/123 web page.

The sequence of Labs in PHY 123 is the following:

Lab 0: DO IT YOURSELF: Read and understand Uncertainty, Error & Graphs

Lab 1: August 31 - September 3, 2015 Acceleration

Holiday week (Labor Day), NO LAB: September 7 - 10, 2015

Lab 2: September 14 - 17, 2015 The Atwood Machine

Lab 3: September 21 - 24, 2015 Projectile Motion

Lab 4: September 28 - October 1, 2015 Conversation of Energy

Midterm Exam week, NO LAB: October 5 - 8, 2015 Make-up labs 1 - 4.

Lab 5: October 12 - 15, 2015 Conservation of Momentum

Lab 6: October 19 - 22, 2015 Angular Momentum

Lab 7: October 26 - 29, 2015 Simple Harmonic Motion

Midterm Exam week, NO LAB: November 2 - 5, 2015 Make-up labs 5 - 7.

Lab 8: November 9 - 12, 2015 Standing Waves

Lab 9: November 16 - 19, 2015 Mechanical Equivalent of Heat

Holiday week (Thanksgiving), NO LAB: November 23-26, 2015

November 30 - December 3, 2015: Make-up labs 8 - 9.

LABORATORY SCHEDULE & TEACHING ASSISTANTS:

Lab Sec.	When	Where	Teaching Assistant
L01	Mon 1:00PM -2:50PM	PHYSICS A121	TBD
L02	Mon 1:00PM -2:50PM	PHYSICS A119	TBD
L03	Mon 4:00PM-5:50PM	PHYSICS A121	TBD
L04	Mon 4:00PM-5:50PM	PHYSICS A119	TBD
L05	Mon 6:30PM-8:20PM	PHYSICS A121	TBD
L06	Mon 6:30PM-8:20PM	PHYSICS A119	TBD
L07	Tue 1:00PM-2:50PM	PHYSICS A121	TBD
L08	Tue 1:00PM-2:50PM	PHYSICS A119	TBD
L09	Tue 6:30PM-8:20PM	PHYSICS A121	TBD
L10	Tue 6:30PM-8:20PM	PHYSICS A119	TBD
L11	Wed 4:00PM-5:50PM	PHYSICS A121	TBD
L12	Wed 4:00PM-5:50PM	PHYSICS A119	TBD
L13	Wed 6:30PM-8:20PM	PHYSICS A121	TBD
L14	Wed 6:30PM-8:20PM	PHYSICS A119	TBD
L15	Thu 1:00PM -2:50PM	PHYSICS A121	TBD
L16	Thu 1:00PM -2:50PM	PHYSICS A119	TBD

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Reporting Problems

Please report any problem to either, your corresponding lab instructor, Professor Deshpande, or Professor

Dehmelt.

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