

# Introductory Physics Labs (IPL) Syllabus (FA09)

[http://www.physics.neu.edu/phy\\_lab/index.html](http://www.physics.neu.edu/phy_lab/index.html)

## Laboratory Supervisor

Tom Hamrick, [t.hamrick@neu.edu](mailto:t.hamrick@neu.edu) Phone: 617-373-2965, Office: 323 CH

## IPL Directors

Paul Champion, [p.champion@neu.edu](mailto:p.champion@neu.edu)

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## What you will need to bring

- Lab manual from Gnomon Copy
- Lab notebook, pencils, a **clear plastic metric ruler**, a **USB key** (or other media to save your work)

## Lab information

- Lab length is 2 hours and 50 minutes regardless of what your schedule says
- Students take lab every other week and are assigned to one group
  - Week 1: Group A
  - Week 2: Group B
- A TA teaches to Group A one week, Group B the next week
- Write down and remember the name of your TA and group (the room you are in will change from week to week)
- Lab is **15% of overall lecture course grade and you will also receive a separate 1-credit lab grade**
  - i.e. the lab grade is integrated into lecture and ILS (if you have one). **Co-enrollment in Lab and Lecture is required.**
- Students must complete all **six** experiments
- Students must hand in a copy of their data and show that they have completed the analysis in order to leave the lab
- The lab report must have a cover page with the name of the experiment, your name, your lab partner's name, and your TA's name.
- This should be a complete, typed report with an introduction, main body with data and analysis, and a quantitative conclusion. A sample report can be found on the IPL home page.
- **Each student** will write an INDEPENDENT lab report at home and submit it into your TA the following week. *Your lab report cannot be a copy of your lab partner's report, or a copy of any other report or the lab manual.* If copying or duplication is detected, the grades of all reports involved the duplication will be reduced to zero.
- Lab reports will be submitted using the "Turnitin" Blackboard function which will be enabled at 8 am on the day of your lab and will close for submission one week later at 5 pm on the same day. If your report involves supplemental materials that are incompatible with computer submission, such as sketches or diagrams, that you cannot scan, they can be turned in to your TA's mailbox located in the IPL office in 323 CH. If the door is closed, slide your report supplement with cover page under the door.
- **Late labs** are reduced by 10 points (out of 100) for each day late after the submission deadline.
- All final lab reports are due **Friday, December 11, by 5:00pm**. NO EXCEPTIONS. No lab reports will be accepted after that time. (Note 1: if you have a final exam on Friday that extends beyond 5 pm, in this course, or any course, your report is due **prior** to the start of the final exam. Note 2: if your final lab report is due before the final Friday 5 pm deadline, it will be counted as late if it is submitted on Friday.)

## Experiment Make-ups

- Students cannot make up labs the following week if they miss their scheduled lab
- Missed labs get a zero
- Students can make-up only **one** lab during make-up period and only if they had a valid excuse for missing that lab.
- All make-ups must be approved by the IPL Directors or the IPL supervisor.
- **There are TWO make-up days. December 8 and 9 from 8:30AM–5:30PM.**
- All make-up lab reports are due **December 11 by 5:00pm**. NO EXCEPTIONS. No make-up lab reports will be accepted after that time.
- You must **e-mail** Tom Hamrick on December 1<sup>st</sup> or 2<sup>nd</sup> to arrange a make-up lab during the make-up period. Any consecutive two hour and fifty minute time during the make-up period is acceptable. Please include the experiment, day, and time in your e-mail.

## Lab Report Grade Breakdown

- Introduction – 10%
- Data – 30%
- Analysis/Plots – 40%
- Conclusion – 10%
- Questions – 10%