Introductory Physics Labs (IPL) Syllabus (General Format)

Main IPL web page:  [http://www.northeastern.edu/cos/physics/undergraduate/introductory-physics-lab](http://www.northeastern.edu/cos/physics/undergraduate/introductory-physics-lab)

**What you will need to bring**

- “Introductory Physics Laboratory” manual purchased from Campus Bookstore
- Pencils, calculator, a clear plastic metric ruler, a USB key (or equivalent media to save your work).

**General Lab information**

- Lab length is 2 h 50min (PHYS 1150 - 1h 25min) regardless of what your schedule says.
- During **Fall & Spring Semesters** students take lab every other week. The same TA teaches to Group A one week and then to Group B the next week (Except Phys 1150 - every week: to Group A then Group B):
  - Week 1 : Group A
  - Week 2 : Group B
- IPL weeks start on Wednesdays in the Fall and Mondays in the Spring Terms.
- During **Summer Semesters** students take labs every week with the same TA.
- Write down and remember the name of your TA and Group because the lab room you are in may change from week to week. TA pictures can often be found on the department website under “people/grad students”.
- Your Lab course will receive a separate 1-credit lab grade, but it will also be counted as 10-15% of your overall lecture course grade, i.e. the lab grade is integrated into the Lecture/ILS part of the course and it also represents a stand-alone laboratory course grade. **Co-enrollment in Lab and Lecture is required.**
- Students must e-mail a copy of their experimental data to themselves and to the TA before leaving the lab
- Students must complete 6 Experiments per semester and submit Lab Reports (PHYS 1150 - 12 Lab Forms sent by TAs). In case of an official class cancellation (e.g., due to snow, etc.) or Holiday, or other approved situations when students cannot take experimental data, the TA will email students “virtual” data files and detailed instructions on how to use them to write a Lab Report.
- 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 under “preparation of lab reports”.
- **Each student** will write an INDEPENDENT lab report at home and submit it into your TA using the Turnitin system the following week. Your lab report cannot be a copy of your lab partner’s report, or a copy of any other report or a copy of 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. (PHYS 1150 submits reports immediately upon lab completion.) **You must also forward your “Turnitin” receipt that is delivered to you by e-mail to your TA or else 5 points will be deducted from your lab grade.**
- 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 lab reports (including make-ups) must be received by the dates listed on the IPL website**. No lab reports will be accepted or graded after this deadline. NO EXCEPTIONS CAN BE MADE.
- All students must complete on-line NU TRACE reviews as final Assignment listed on Blackboard: 1pt will be deducted from your final grade if the proof of completion (screen shot) is not emailed to your TA.

Lab's Schedule is posted on the IPL Syllabus page (except Summer**):
**Academic Honesty and Integrity Policy**

The complete NU policy is available at: [http://www.northeastern.edu/osccr/academic-integrity-policy](http://www.northeastern.edu/osccr/academic-integrity-policy)

**Experiment Make-ups**

- Missed labs get a zero.
- Students can make-up only one lab during the end of term make-up period and only if they had a valid excuse for missing that lab.
- You must communicate with your TA to schedule a make-up, and provide an adequate documentation for your absence. All make-ups must be approved by the IPL Directors/Supervisor in consultation with the TA.
- The make-up period for F/Sp Semesters is listed on the IPL website, for Summer Semesters is sent via the Blackboard. Your TA can schedule approved make-ups during the term, and must be present in the lab for each make-up class.
- All make-up lab reports are due on the date listed on the website**, NO EXCEPTIONS. No make-up lab reports will be accepted or graded after that time.


** Summer Terms lab's calendar, classes/make-up schedule, and other information will be sent to you via the Blackboard or given as hard copies rather than posted on the IPL web site due to short duration of Summer I and Summer II terms.

**Lab Report Grade Breakdown**

(Check that your lab grades are posted correctly on Blackboard and report discrepancies to your TA)

- PreLab Quiz = 5%  Introduction = 10%  Data = 25%  Analysis/Plots = 40%  Conclusion = 10%  Questions = 10%
- Addition of Abstract, References and Acknowledgements may give up to 3 bonus points.
- Honors Sections must answer Honors Questions. Q1&2: required; Q3&4: extra 1+2 = 3pts.

**PHYS1150 Lab Form Grade Breakdown**

- Prelab Quiz = 15%  Data = 35%  Analysis/Questions = 50%
- Honors Sections must answer Honors Questions in the lab forms


IPL Faculty and Staff Contact Information page: [http://www.northeastern.edu/cos/physics/undergraduate/introductory-physics-lab/contact-ipl-staff](http://www.northeastern.edu/cos/physics/undergraduate/introductory-physics-lab/contact-ipl-staff)

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