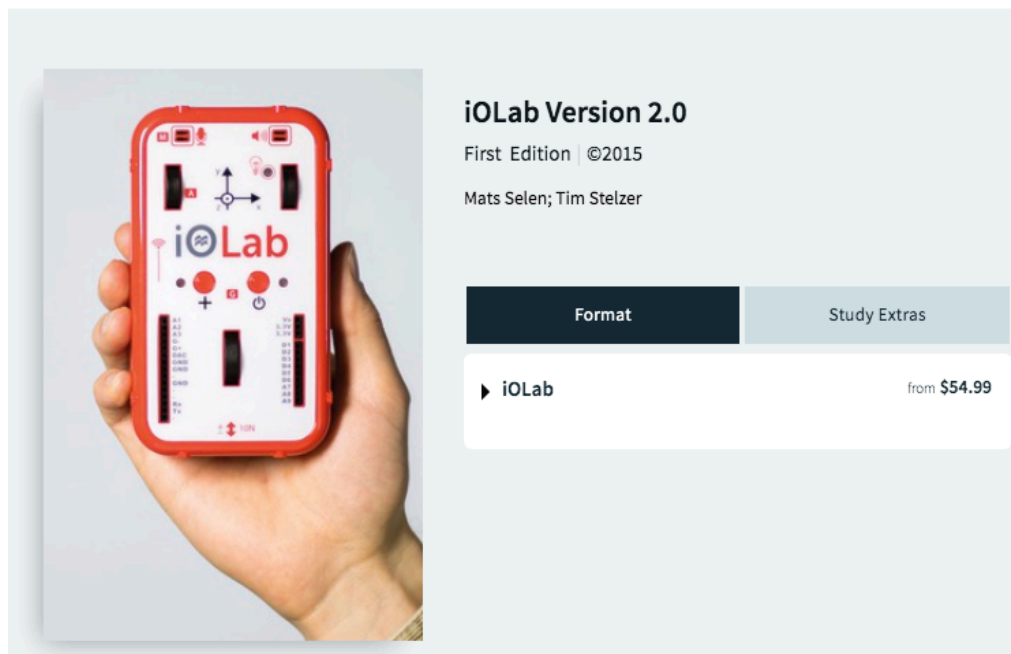


## PH221L/222L: UAB Department of Physics General Lab Policies - Spring lab classes

**Organization** The lab portion of your Physics will require assignments to be completed in-person, on campus in the physics lab during sessions every other week as listed below. You will also be required to complete four modules using Canvas and an iOLab device outside of your regular time. These Canvas modules will be called “Investigations.” You will be sent email and Canvas messages about obtaining an iOLab device needed for the online Canvas Investigations, in case you do not already have the device. No lab manual is required for purchase for either the in-person lab sessions or the iOLab investigations on Canvas. Although the UAB bookstore sells the iOLab device, the least expensive way to obtain one is with the publisher Macmillan:

<https://store.macmillanlearning.com/us/product/iOLab-Version-2.0/p/1464101469>

≡  | macmillan learning **Student Store**



Each iOLab Investigation module has the following components, with due dates outlined below and on your lab Canvas site::

### **Introduction, Background and Materials**

The first document listed in each module will outline the objectives and materials needed for the lab activities. A discussion of the important ideas explored in the lab follows, along with some page listings of important sections of your *Openstax* class textbook you may need to read to familiarize yourself with the concepts and calculations that will be needed.

### **Pre-Lab Quiz (due on Wednesdays (2 days before each Lab submission due date))**

Each Investigation has a quiz with around five questions. This quiz must be taken before proceeding to submit any lab work. Of course the background material given in the module is important for answering the quiz questions, and the purpose of the quiz is check your understanding of main concepts before you proceed to the lab instructions. These quizzes will not be timed, and each student will be given two attempts at the quiz, where Canvas will be set up to use your more recent attempt score. The Pre-lab quiz will be due two days before the lab submission due date in each Investigation module.

**The Pre-Lab Quizzes will be weighted as 10% of your overall Lab score.**

### **Lab Instructions/Lab Submission (due of Fridays, 2 days after each Pre-Lab Quiz)**

The Lab Instructions section will detail all the steps necessary for completing the lab.

The data or documents that will need to be submitted will be specified. The Lab Submission section is where you will have an upload link to submit what is asked for. The submissions must be in formats according to the instructions (for data charts, diagrams or photos of lab setup, etc. as specified in the directions.) The entire lab submission must be the work of each individual student. Any work submitted that is NOT original work done by the individual student will be reported to the lecture professor as academic misconduct, with penalties consistent with current UAB policy.

Lab instructors will use a rubric/scoring guide to award points to all lab submissions

**The iOLab Investigation Lab submissions will be weighted as 45% of the overall lab score**

**The in-person lab sessions:** (5 total every other week as listed) will have all students divided into groups to work on an experiment outlined by the lab instructor that day, and each group will turn in a group worksheet with answers submitted by the whole group. There may be some questions also answered as a group about concepts related to a previous iOLab Investigation turned in individually online.

The overall lab score will be determined by the following weighting of the above lab assignments:

**iOLab Investigation Pre-Lab quizzes:** 10% of total lab score (submitted on Canvas individually)

**iOLab Investigation Lab Submission:** 45% of total (submitted on Canvas individually)

**in-person Lab Group Worksheets:** 45% of total. 1 lowest score DROPPED from score calculation.

The due dates for all assignments within each Investigation module will be displayed clearly in your Canvas lab site. It is the student's responsibility to note and adhere to all due dates posted in Canvas. In order to keep the lab course on track and score lab submissions in a timely manner there will be no late submissions accepted. It is the student's responsibility to begin and submit work before the very last hours and minutes before a due date, so that any unexpected technical or internet access issues can be dealt with in time. Only documented medical excuses specifying a student is unable to perform class work during a multi-day period may lead to any extension of a due date. Again, the student should start working on the iOLab Investigation assignments well before the due date. There are at least two weeks between each of the iOLab Investigations.

At the end of the term, your lab score will be reported to your lecture professor before you take final exams. There is no separate grade given for physics labs. Your professor will incorporate your lab score into your grade as specified in your physics lecture course syllabus.

**Academic Integrity Code:** All students are expected to be familiar with and adhere to the Academic Integrity Code as well as UAB's official policy on the appropriate use of technology in the classroom. Any student that violates the code by copying work or submitting work/answers originating from others will receive zeroes for all further Investigation assignments yet to be scored. See UAB's policy/code here:

<https://www.uab.edu/one-stop/policies/academic-integrity-code>

**PH222 lab students only :** You will be given a required lab kit with needed supplies labs to be used with your iOLab device. These will be given to you during the first in-person lab meeting (2<sup>nd</sup> week of classes).

## Spring 221L/222L LABS, 2022 schedule

(See your lab's Canvas page ALSO for exact due dates of assignments)

Classes Begin : Monday, Jan. 10, 2022

Classes End: Friday, April 22, 2022, finals the following week.

**Week 1:** No labs (get iOLab device if not already acquired!)

**Week2:** Jan 17-21: In-Person lab session during your scheduled lab time

**Week4:** Jan 31-Feb 4: In-Person lab session during your scheduled lab time.

iOLab assignment due: Show calibration/use of your iOLab device: due Jan 31

**Week 5:** iOLab Investigation1 Pre-lab quiz due Feb 9, iOLab Investigation 1 lab submission due Feb 11.

**Week 6:** Feb 14- Feb18: In-Person lab session during your scheduled lab time

**Week 7:**iOLab Investigation 2 Pre-lab quiz due Feb 23, iOLab Investigation 2 lab submission due Feb28

**Week 8:** Oct 18-22: In-Person lab session during your scheduled lab time

**Week 10:** Nov. 1-5: In-Person lab session during your scheduled lab time

iOLab Investigation 3 Pre-lab quiz due Mar. 23, iOLab Investigation 3 lab submission due Mar. 25

**Week 12:** iOLab Investigation 4 Pre-lab quiz due Apr. 6, iOLab Investigation 4 lab submission due April 8

**Week 14:** All lab scores delivered to lecture professor by end of this last week of classes.

Notice that some In-Person sessions and online iOLab Investigation due dates are during the same weeks. **However, the online iOLab Investigation assignments can be finished by you at any time, well ahead of the due date week if desired.** It is up to you to finish the material as best suits your own schedule. It is generally a bad idea to start the online material during the last possible day.

Questions about lab policy may be directed to your TA or UAB physics lab director Dr. DeVore: [devore@uab.edu](mailto:devore@uab.edu).

**Absence policy for In-Person lab sessions:** A first absence, for any reason, will be used as a dropped score and will not be used as part of the calculation that determines the lab average. A second absence that occurs due to a documented illness or official UAB event that prevents attendance may be excused after approval of submitted information.