

Lab 1110/1111 A term 2020

Last edited August 25, 2020

Lab Schedule and Policies:

A students' schedule will depend largely on if you are fully remote or partially remote. For fully remote students you will have a 2 hour 'synchronous lab' period once per week. You are required to attend and check in with your Lab Instructor. You are not required to stay for the whole two hours, but you must check in with your Lab Instructor. We will assign lab partners based on a pre-lab survey, and we encourage, but do not require, you to work with your lab partner. Lab partners cannot have identical answers to theoretical questions (the questions where we require you to write a few sentences), and we would consider answers that are exactly the same academic dishonesty.

Your lab group is the same as your conference subgroup, "A" or "B". That distinction should appear in the course schedules next week, assuming that it is taken up by the schedulers. This is to help as we work to de-densify the lab spaces.

Students will **always** have the option to do the remote lab, and we want to encourage students to **STAY HOME if you feel sick**. Please email your Lab Instructor (before class if possible) if you choose to do the remote lab that week.

There will be rigid, uncompromising policies on in person interactions and safety in lab. Lab Instructors have full discretion to decide on what violates these policies, and students who do not comply with these safety standards will receive a zero for this lab, or at an extreme we will consider never allowing the student back into in-person lab this semester. This is for your safety and the safety of your peers.

These standards include, but are not limited to:

- Wearing a mask the whole time one is in lab.
- Cleaning your work space before and after lab with sanitizing wipes and sprays.
 - o At the beginning of class grab a spray bottle and some paper towels. Then take them back to your station and spray everything you expect to touch (Keyboard, mouse, Vernier cart, track, your chair). Then wipe them down, or let it sit for a few minutes. See the next point for more information about why you may wish to let the cleaning agent sit.
 - o At the end of class spray down all the things you touched (the table you sat at, the keyboard, mouse, Vernier cart, track, your chair) and then **Do not wipe it off with a paper towel**. In truth these cleaning agents require 10 minutes of application to achieve full efficacy. Therefore, as we are ending on the 40 (aka 20 minutes before the next class) we have time for you to leave the cleaning agent sitting on the 'dirtied' area before the next class.
- Staying 6 feet away from others, and respecting peoples space if they ask you to 'stay back'.

We will email out a video and more information about these policies as we get closer to August 30th.

Week	Group A	Group B	Fully Remote
30 August 2020	Lab 1	Lab 1	

6 September		Lab 2	Lab 1
13 September	Lab 2	Lab 3	Lab 2
20 September	Lab 3	Lab 4	Lab 3
27 September	Lab 4		Lab 4
4 October		Lab 5	Lab 5
11 October	Lab 5		

Labs are due Saturday at 12 noon, East Coast time. Lab 2, 4 and 5 are in lab. Lab 1 and 3 are online. Lab 3 requires a 'bouncy item', and we will be providing bouncy balls for the students at the end of Lab 2. They must be returned by Lab 4. Remember to convert all labs to pdf's before submitting.

Asking questions about labs

Dana (ldana@wpi.edu), the lab manager, has office hours Friday morning from 9:30-10:30. If you have any questions about labs you may email her, but if that question is answered in the syllabus you are not guaranteed a response. Additionally, if it is not a time sensitive questions please ask it in office hours. If it is a question about how to do the labs, definitely bring it to office hours!

Link: <https://wpi.zoom.us/j/8433328496>

Parallel remote labs

The students who cannot attend in person lab, or it is Lab 1 or 3, have the option to complete the associated remote lab. For example, if they are out sick for week 3 and are in Group A they would have originally done lab 4 in lab. Therefore they should complete the remote lab 4. They should still check in with the associated remote lab that is held at the same time as their in lab period, as well as emailing the in person instructor that they are missing in person lab.

Students are required to attend these remote labs via zoom. They are not an asynchronous lab, and attendance will be taken. They are not required to stay for the whole lab period, however. They must check in with their remote lab instructor to let them know how the lab is going. We recommend you stay longer to get help with the labs, but we will not require you to.

Lab Extension policies:

All students should email their Lab Instructor to ask for extensions. If a student emails at least 6 hours before the deadline they get an automatic day extension, no penalty. After that day, or if a student does not email, your lab report loses one point per day. There are no possible extensions past October 11th as we begin to hit the end of the class.

Because we need to limit the number of Instructor's on campus, those students who are partially remote will have two Lab Instructor's. One for the remote labs, and one for the in person labs. For extensions you should direct your request towards the Lab Instructor who is leading that lab that week, but cc the second Lab Instructor to keep them in the loop.

Lab rules that also apply to a Normal Era

- You do not need to ask to go to the bathroom. Please feel free to get up, take a break, eat a snack outside of the lab (in a normal era! Not the COVID era), go for a short walk whenever you wish.
- Please know that lab ends on the 50 minute mark, so please try and keep any (recommended) breaks you take short enough that you finish your entire lab.
- You should never need to buy anything for physics lab. We are not Chemistry lab (although we think they're great!).

Week 1: 30 August 2020

Assignments for fully remote

- Pre-Lab Quiz to get information about resources.

Assignments for hybrid students

- I will post a safety video, the Olin walk through map.
- Group A
 - Lab 1 Pre-lab quiz (5 points) due
 - Lab 1 Synchronous zoom meeting
 - Lab 1 in person (15 points) due
- Group B
 - Lab 1 Pre-lab quiz (5 points) due
 - Lab 1 Synchronous zoom meeting
 - Lab 1 remotely due (12 points)

Week 2: 6 September 2020

Assignment for fully remote

- Lab 1 Pre-lab quiz (5 points)
- Lab 1 Synchronous zoom meeting
- Lab 1 due (12 points)

Assignments for hybrid students

- Group A
 - No lab this week
- Group B
 - Lab 2 pre-lab quiz (5 points)
 - Lab 2 in person (15 points) due

Week 3: 13 September 2020

Assignment for fully remote

- Lab 2 synchronous zoom meeting
- Remote Lab 2 due (20 points)

Assignment for hybrid students

- Group A

- Lab 4 pre-lab quiz (5 points)
 - Lab 4 in person lab (15 points)
- Group B
 - Lab 3 synchronous zoom meeting
 - Remote Lab 3 lab due (20 points)

Week 4: 20 September 2020

Assignment for fully remote

- Lab 3 synchronous zoom meeting
- Remote Lab 3 due (20 points)

Assignment for hybrid students

- Assignment for Group A
 - Lab 3 synchronous zoom meeting
 - Remote Lab 3 lab due (20 points)
- Assignment for Group B
 - Lab 4 pre-lab quiz (5 points)
 - Lab 4 in person lab (15 points)

Week 5: 27 September 2020

Assignment for fully remote

- Lab 4 synchronous zoom meeting (1 point)
- Remote Lab 4 due (19 points)

Assignment for hybrid students

- Assignment for Group A
 - Lab 4 pre-lab quiz (5 points)
 - Lab 4 in person lab (15 points)
- Assignment for Group B
 - No lab this week

Week 6: 4 October 2020

Assignment for fully remote

- Lab 5 synchronous zoom meeting (1 point)
- Remote Lab 5 due (19 points)

Assignment for hybrid

- Group A
 - No lab this week
- Group B
 - Lab 5 prelab quiz (5 points)
 - Lab 5 in person lab (15 points)

Week 7: 11 October 2020

All labs must be submitted by the end of this week.

Assignment for hybrid

- Group A
 - Lab 5 prelab quiz (5 points)
 - Lab 5 in person lab (15 points)

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