Physics 22 is a one credit accompaniment to Physics 12.
It will be a combination of small assignments, a research paper, and help for Physics 12.

Lab Manager:
Dr. Donforth
E-mail: ldonfort@uvm.edu
Office Hours: Please reach out for an appointment

Course Format:

This will be an asynchronous online course. We’ll provide a lab manual, and multiple hours throughout the week where you can check in with a TA; but you’ll have time to do the experiments on your own.

You’ll have several small projects in the first half of the semester. Towards the end of the term, you’ll work on a multi-week research project that you’ll present to your peers.

Physics 22 uses the Blackboard to deliver course resources and for you to submit your assignments.
To log on to blackboard, go to https://myuvm.uvm.edu and enter your net ID and password. Once you've logged in there, select Blackboard from the top row of icons; then select Physics 22 from your courses. Reports for class will be submitted via the Report Dropbox in Blackboard (in the menu on the left).

Help sessions, where you can drop in and talk to your TAs, will happen via Microsoft Teams. You’ll be added to a team for the class, and will receive invitations for the help sessions.

There is no final exam in Physics 22. Your grade is based on your reports and projects.

Required Course Materials:

The UVM bookstore will sell a kit of materials to perform physics experiments at home. If you live with another student in Physics 22, you may share a kit. But everyone must have access to a kit and the supplies in it.

The lab instructions will be provided via Blackboard. There is not a textbook for Physics 22, but there is a kit.

Attendance:

You are not required to attend; but we will offer several hours that you can check in for help with Physics 22 and/or Physics 12. You will be assigned a TA who will grade your reports, but you’re encouraged to go to any of the TA’s help sessions.
Prerequisites:

This laboratory course is designed to accompany Physics 12. Students registered in Physics 22 must now be enrolled in Physics 12 or have previously completed Physics 12 or Physics 125. Physics 22 labs require a background knowledge that is best gained from concurrent enrollment in, or previous completion of, the accompanying lecture course Physics 12. For this reason, students who withdraw from Physics 12 during the add/drop period should withdraw from Physics 22 or risk being disenrolled. Students withdrawing from Physics 12 after the end of the Add/Drop period may remain enrolled in Physics 22 Laboratory, but are expected to independently continue their study of the Physics concepts relevant to each laboratory experiment. Failure to do so may seriously jeopardize their chances of successfully completing Physics 22.

Evaluation:

Letter grades will be assigned to final course averages as follows:

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<td>A</td>
<td>100-97.00</td>
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<td>89.49-86.50</td>
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<td>79.49-76.50</td>
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<td>+</td>
<td>96.99-92.50</td>
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<td>86.49-82.50</td>
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<td>76.49-72.50</td>
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Students who are concerned about their performance in the course are encouraged to discuss the matter with Dr. Donforth. The lab grade for Physics 22 is independent of the lecture grade for Physics 12.

Academic Integrity:

Students are expected to comply with the University's Code of Academic Integrity. Please consult the website of the “Center for Student Ethics & Standards” for details. In addition to the matters described there, please note that it is a serious offense to submit a report, or use data, from an experiment in which you did not actively participate. If you previously took this or another physics course, you are still expected to take data this semester and base your reports of your experience this term.

Cooperation with laboratory partners is encouraged during the setting up and data gathering parts of each experiment, but your analysis, conclusions, and write-up must be your own individual work.

Note, if you provide your work to another student and they submit it; you have both participated in the act of collusion, a violation of the Code of Academic Integrity.

Write your own lab reports.
**Religious Accommodation:**

Students have the right to practice the religion of their choice. To facilitate that, students who anticipate religious holidays conflicting with their course work must submit in writing to their instructors by the end of the second full week of classes their documented religious holiday schedule for the semester. If you miss work for the purpose of religious observance, you will have the opportunity to make up this work. You must coordinate making up the work before the holiday.

**Student Accessibility Services**

In keeping with University policy, any student with a documented disability interested in utilizing accommodations should contact the Center for Student Success. Student Accessibility Services works with students and faculty in an interactive process to explore reasonable and appropriate accommodations, which are communicated to faculty in an accommodation letter. All students are strongly encouraged to meet with their TA, the lab coordinator, and the course instructor to discuss the accommodations they plan to use in each course. A student's accommodation letter lists those accommodations that will not be implemented until the student meets with their faculty to create a plan. Begin the process at: A170 Living/Learning Center; 802-656-7753; access@uvm.edu; or [https://www.uvm.edu/academicsuccess/student_accessibility_services](https://www.uvm.edu/academicsuccess/student_accessibility_services).

**Sexual Assault, Relationship Violence, Harassment, and/or Discrimination Disclosure:**

All course instructors (including graduate and undergraduate students hired for the course) are "Responsible Employees" or mandatory reporters, meaning we are responsible for reporting to the Title IX Coordinator instances of sexual assault, intimate partner violence, harassment, and discrimination disclosed to any of us, including the name of the person that disclosed the information, for institutional review. If you would like to speak confidentially with someone (i.e., someone not required to make a report for institutional review), you may contact the following resources directly for support: Campus Victim's Advocate, UVM Counseling & Psychiatry Services, and the Student Health Center. These resources are also listed at [https://www.uvm.edu/aaeo/resources_links](https://www.uvm.edu/aaeo/resources_links).

**Safety is a priority in these labs. Negligent or deliberate misuses of the equipment will not be tolerated, and may result in an F for the assignment or entire course.**