

PHYS 118: Introductory Calculus-based Mechanics and Relativity

Fall 2025 Syllabus

Course Description

This 4-credit course investigates basic principles of physics including kinematics, Newton's laws, momentum and energy conservation, Einstein's Theory of Special Relativity, rotation and rigid body dynamics, oscillations, and mechanical waves. This course is the first semester of calculus-based introductory physics intended to meet the needs of students majoring in physical and applied sciences. Students may not receive credit for PHYS 118 in addition to PHYS 104, 114, or 116.

If you are enrolled in the Honors section of this course (PHYS118H-01F and PHYS118H-401), please review the last page of this syllabus for additional information.

Pre-requisites: MATH 231 or equivalent transfer/exam credit

Co-requisites: MATH 232 or equivalent transfer/exam credit

Learning Goals

Throughout this course you will have the opportunity to analyze the physical world around you and improve your critical thinking skills. The instruction for this course places significant emphasis on qualitative reasoning as an important foundation to quantitative problem solving. This course has three overarching learning goals: 1) to develop a fundamental understanding of matter and its interactions; 2) to gain analytical and quantitative skills in solving real world physics problems; 3) to practice explaining physics phenomena and carrying out experimental investigations.

Please see our Canvas site "Modules" tab for specific learning goals for each course module. Additional learning outcomes in alignment with the First-Year Launch Program and the IDEAS Curriculum are included at the end of this syllabus.

Course Format

The course is conducted in a "Lecture/Studio" format. Each module comprises a 50-min lecture followed by a 110-min studio session. The lecture and its associated warm-up assignment will introduce key concepts and prepare you for studio. During studio, you will work in a group with 2-3 other students on activities that further develop your understanding of that module's content. You will spend most of the time in class engaging in conceptual questions, discussing ideas with your classmates, performing experiments, and working with simulations and data analysis. The basic aim of this format is to allow you to actively take charge of your own learning, with the course materials and your instructors as guides.

Course Website

All course materials, announcements, and the course schedule are posted on Canvas under the course name "PHYS118.ALL.FA25". Log in with your ONYEN at this [link](#).

Meeting Times and Locations

Lectures

- Location: Carroll Hall Room 0111
- Times
 - Section 118-001, 118-01F, and 118H-01F: MWF 8:00-8:50 am
 - Section 118-002: MWF 9:05-9:55 am

Studios

- Location: Phillips Hall 208
- Times
 - Section 118-401: MW 10:10 am-12:00 pm (First-Year Launch)
 - Section 118-502: MW 12:20 pm-2:10 pm
 - Section 118-503: MW 2:30 pm-4:20 pm
 - Section 118-504: MW 4:40 pm-6:30 pm
 - Section 118-505: TuTh 8:00 am-9:50 am
 - Section 118H-401: TuTh 10:00 am-11:50 am (First-Year Launch Honors)
 - Section 118-506: TuTh 12:00 pm-1:50 pm

Instructors and Contact Information

Professors



Prof. Alia Hamdan
Lecturer, First-Year Launch Honors Instructor
Email: hamdana@unc.edu
Office: Phillips 180
Office Hours: Monday & Thursday 1-2 pm



Prof. Reyco Henning
Lecturer
Email: rhenning@unc.edu
Office: Phillips 230
Office Hours: Wednesday 1-2 pm & Tuesday 9-10 am



Prof. Muxin Zhang (she/her)
Course Coordinator, First-Year Launch Instructor
Email: muxin@unc.edu
Office: Phillips 184
Office Hours: Monday & Tuesday 3-4 pm (or by appointment)

Studio Instructors

- Section 118-401: Muxin Zhang (muxin@unc.edu)
- Section 118-502: Victor Castillo Martinez (viccam@unc.edu); Tal Lucas (tallucas@unc.edu)
- Section 118-503: Kira Nolan (kinolan@unc.edu); Vohn Jacquez (vbjacq8@unc.edu)
- Section 118-504: Gabriel Chavez (gchav@unc.edu); Alden Warner (ajwarner@unc.edu)
- Section 118-505: Laramy Burel (laramy@live.unc.edu); Alaa Tamimi (atamimi@unc.edu)
- Section 118H-401: Alia Hamdan (hamdana@unc.edu)
- Section 118-506: Alaa Tamimi (atamimi@unc.edu); Laramy Burel (laramy@live.unc.edu)

Lecture Teaching Assistants

- Ishan Joshi (ishanj@unc.edu)
- Vyshnavi Sabbi (vyshu@unc.edu)
- Eric Guo (eguo1124@unc.edu)

Prof. Zhang is the Course Coordinator this semester. If you have any questions about accessing course materials, registration, grades, excused absences, due date extensions, and accommodations, please contact her directly by e-mail.

To see the full office hour schedule, go to Canvas homepage -> “Getting Help”. All teaching assistant (TA) office hours are held at the **Physics Tutorial Center in Phillips 237**. You may go to any instructor’s office hours regardless of which section you are in. Many of our course instructors also offer one-on-one office hour by appointments. If you cannot meet us at our scheduled office hour times, we encourage you to e-mail us to see if an appointment is possible.

This course has an active Piazza forum! You can post content-related questions anonymously on the forum. Please sign up at this [link](#). Whenever possible, please do not e-mail us with content-related questions, but rather save them for the Q&A sessions, office hours, or the Piazza forum. This helps us efficiently and quickly answer as many content questions for as many students as possible. With a class this size, chances are good that if you have a question on some part of the content, other students have that same question!

Required Materials

- **Textbooks:** We have two textbook options. 1) "Physics for Scientists and Engineers: A Strategic Approach with Modern Physics " 4th/5th edition by Randall Knight, which you can purchase from the bookstore. 2) OpenStax's FREE online textbook “University Physics” Volume 1 and Volume 3, which can be found at this [link](#). You may use either book or both. All other supplemental reading assignments will be posted on Canvas.
- **ExpertTA:** You will access all homework and warm-up assignments through Canvas. When you click on an assignment on Canvas, you will be redirected to the online homework system ExpertTA to complete the assignment. You are automatically registered for this course's ExpertTA site the first time you click on an assignment on Canvas, and you do NOT need to create a separate ExpertTA account. Please always access your warm-up and homework assignments through Canvas to ensure that your grades are synced properly. You will have a 14-day free trial and then the system will prompt you to pay for the ExpertTA service (usually ~\$35 per semester). This is the only material that you are required to pay for in this class.
- **UNC Check-In App:** We will use this free app to take lecture attendance. Install the app at this [link](#). Make sure to log in with your ONYEN.
- **Poll Everywhere App:** We will use this free app to post poll questions during lectures. Install the app at this [link](#). Make sure to log in with your ONYEN.
- **Gradescope:** We will use Gradescope to grade studio deliverables and exams. When you click on a studio deliverable on Canvas, you will be automatically redirected to Gradescope to submit the assignment. You do NOT need to pay for Gradescope or set up a separate account.
- You will need a **laptop** to complete assignments and participate in studios. You will also need a **scientific or graphing calculator** that does not have internet connection for use during exams.

Course Expectations and Grading

- **Warm-Up Assignments (5% of final course grade):**

Before the beginning of each module, you are expected to do the assigned readings and complete a short ExpertTA warm-up assignment, which you can access through Canvas. The assignment may include a reading from the textbook, a video to view, or other preparation for the

upcoming module's activities. Warm-up assignments will typically be made available at least 4 days before they are due. **Warm-up assignments are due at 11:59 pm the night before their associated lectures.** Please refer to the course schedule for specific readings and due dates.

Since warm-up assignments are intended to prepare you for the upcoming lecture, we will not accept late warm-up assignments. At the end of the semester, two of your lowest warm-up assignments will be dropped without penalty.

- **Lecture Participation (5% of final course grade):**

At the beginning of each lecture, we will use the UNC Check-In app to take attendance (see instructions in "Required Materials" to install the app). During each lecture, you will be discussing poll questions with your peers and submitting your responses using the PollEverywhere app. These poll questions are designed to help you actively engage with the lectures and provide immediate feedback on your understanding of the material. Your responses to these poll questions will not be graded based on correctness.

Optional Q&A sessions are held during lecture time on Fridays when there is no midterm exam (see course schedule for exam dates). These sessions are dedicated to clarifying the week's material and assignments. Participation in Q&A sessions is recommended but we will not take attendance.

At the end of the semester, two of your lowest lecture participation grades will be dropped without penalty. Additionally, if your exam average is higher than your lecture participation grade, we will replace your lecture participation grade with your exam average.

- **Studio Participation (5% of final course grade)**

Studios are designed to help you deepen your understanding of the concepts. During each studio, you are expected to work collaboratively with your group members through every step of the activities, discuss questions that come up, and help each other understand the material. Studio instructors will provide guidance and help answer questions. We will take attendance during studios, and your studio participation grade will depend on how you engage with the studio activities and collaborate with your group members.

Please go to the studio that you are registered in; you cannot attend a different studio section if you miss studio. Studio activities often have hands-on components, so virtual participation is not allowed. At the end of the semester, two of your lowest studio participation grades will be dropped without penalty.

- **Studio Deliverables (20% of final course grade):**

Each studio session has an associated deliverable assignment. You will submit most deliverables as a group to Gradescope during class. For these group-submitted deliverables, all group members will receive the same grade. If a member of your group does not attend or contribute to your group's work, you should not include their name on the deliverable submission. If you need more time to finish the responses after class, **you will generally have until 11:59 pm on Tuesday (for Monday/Tuesday studios) or 11:59 pm on Thursday (for Wednesday/Thursday studios) to submit your group's deliverable.**

A few studio deliverable assignments will require individual submissions, and they will be graded individually. These deliverables will have due dates that are specified in the assignment. Please see detailed instructions on Canvas.

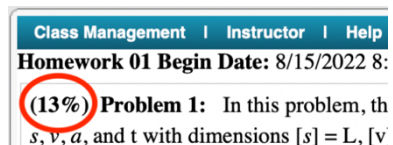
If you cannot attend a studio class for any reason, you are still expected to submit the deliverable assignment associated with that studio. Activities, worksheets, and videos of experiments are generally published on the Canvas site to help you complete the assignment on your own. However, seeking help from your instructors is highly encouraged. If you have an approved excused absence (see excused absence policies below) and/or need a deadline extension

for the studio deliverable, please email the Course Coordinator (muxin@unc.edu). We do not drop any studio deliverables at the end of the semester.

- **Homework (15% of final course grade):**

To solidify your understanding of the module, you are expected to complete an ExpertTA homework assignment at the end of each module, which you can access on Canvas. You are encouraged to discuss the homework with one another, post questions on Piazza, and seek help from instructors during office hours, but you must submit individual responses to the questions. Homework assignments will typically be made available at least a week before they are due. **Each module's homework assignment is due about one week after that module is introduced in lecture.** Please refer to the course schedule for specific due dates.

All ExpertTA questions have a small area to the upper left that tells you how much the problem is worth as a percentage of the entire assignment (see picture to the right). If you see "0%" here, then the problem is for practice and will not be counted towards the assignment grade.



If you miss the deadline for a homework assignment, you have an extra 48 hours to submit that assignment. However, there will a 10% penalty on your grade per day late. After the 48-hour grace period, solutions will become available for everyone to view and study, so we will not accept later submissions. At the end of the semester, your lowest two homework assignments will be dropped without penalty.

- **Midterm Exams (each is 10% of final course grade):**

There are 3 midterm exams, which will be administered during your registered lecture times on Fridays. Locations will be announced.

- Exam 1 (Module 1-5): Friday, September 12th
- Exam 2 (Module 6-12): Friday, October 10th
- Exam 3 (Module 13-17): Friday, November 7th

- **Final Exam (20% of final course grade):**

As determined by the UNC Registrar, the final exam for this course will be administered on **Friday, December 5th, 12:00-3:00PM** for all sections. This is a cumulative exam (covering all modules), and it will be given in compliance with UNC's final exam regulations.

- **Extra Credit:** To make sure all students are evaluated equally and fairly, no special extra credit opportunities will be offered to individual students. While we may offer extra credit opportunities to the entire class, we are under no obligation to do so.

Grading Scale

Your final course grade will be determined using the following scale:

A	≥ 93 to 100	C+	≥ 77 to <80
A-	≥ 90 to <93	C	≥ 73 to <77
B+	≥ 87 to <90	C-	≥ 70 to <73
B	≥ 83 to <87	D+	≥ 67 to <70
B-	≥ 80 to <83	D	≥ 60 to <67
		F	<60

Grading is based on demonstrated mastery of the learning objectives. We will not grade on a curve, and we have no pre-defined distribution of grades. You are not competing with your classmates for a limited number of As and Bs; in theory, everyone in the class could earn an A. Please note that according to a policy adopted by our Introductory Physics Oversight Committee, we will not round up grades that are just below the cutoff for the next-highest letter grade. For example, an overall score of 89.9 is a B+, not an A-.

Excused Absences and Other Attendance Policies

As explained above, two warm-up assignments, two lecture participation grades, two studio participation grades, and two homework assignments will be automatically dropped at the end of the semester when calculating your final course grade. This is meant to account for the normal absences that often occur during a semester due to any reason. Therefore, we will not drop additional attendances or assignments unless there is a valid, well-documented reason for doing so. This is why it is not a good idea to skip class unless you need to. Save your dropped attendance days for when you really need them.

- **How can I request to have additional attendances/assignments excused?**

If you have to miss class because of authorized University activities, disability/religious observance/pregnancy, or significant health condition and/or personal/family emergency, please request a University Approved Absence (UAA) at this [link](#). Getting this documentation may help you in other classes as well!

If your reasons for missing a class or assignment does not qualify for a University Approved Absence, we may still be able to excuse the missed class or assignment for you if you have a valid, well-documented reason. Please fill out the **Excused Absence Request form** at this [link](#) and upload documentation (log in with ONYEN@ad.unc.edu).

- **What should I study if I miss a lecture or a studio attendance?**

You should study the lecture slides and studio material posted on Canvas and contact the instructors to ask questions. Remember that you are still expected to submit the studio deliverable assignment if you miss the studio class, so please follow the instructions posted on Canvas to submit the deliverable. If you have an approved excused absence, you may ask the Course Coordinator for a due date extension on the deliverable assignment.

- **What if I miss an exam?**

If you need to miss a **Midterm Exam**, please email the Course Coordinator as soon as you can. We will ask for relevant documentations to determine if an absence from an exam is excused. If you have a valid, well-documented reason, then you may take the make-up exam. Make-up exams are generally held at 7:00 AM on the Monday following the Friday of the regular exam. If you have an excused absence and it is not feasible for you to take a make-up exam before we return the graded exams, we will drop the missed exam and replace it with your percentage on the final exam. However, we cannot drop more than one midterm exam this way (see “Minimum Requirements” below).

If you cannot take the **Final Exam** at the scheduled time, instead of emailing the Course Coordinator, you must request a Final Exam Excuse from the UNC Advising Office at this [link](#).

If you miss an exam because of a mistake on your part (e.g., sleeping through it), then please still reach out to us. We all make mistakes. We will still try to see if you can take a make-up exam. **However, unexcused exam absences will incur a 20% penalty.**

- **Minimum Requirements**

The Department of Physics and Astronomy requires a minimum amount of work to be done to complete a course. **Regardless of excused absence situations**, in order to be eligible to receive at least a D in this class, you must complete at least:

- 2 out of the 3 midterm exams,
- the final exam,
- 50% of the homework assignments,
- 50% of the warm-up assignments, and
- 60% of the studio attendances and deliverables.

We want everyone to do as well as possible and complete the course. If you think you are in danger of not meeting these minima, please contact the Course Coordinator and your academic advisor as soon as possible to discuss your options.

- **Additional Considerations**

We created the above policies to strike a balance between accommodating individual needs and holding students accountable for their learning in this course. These policies should cover issues experienced by most students. However, we recognize that there may be some students who are experiencing more extraordinary challenges and complex issues in their personal lives. Our top priority is to make sure that you are safe and getting the assistance you need. Please reach out if you feel that you might need additional considerations beyond what is provided by the above policies. While we cannot promise a particular outcome, we are more than happy to work with you to formulate a plan to help you proceed in the class and achieve your academic goals.

Please keep in mind that we cannot respond to issues we are unaware of. The sooner you alert us to any potential, ongoing issues, the sooner we can work with you to develop a plan for how to best proceed. If you wait until the very end of the semester to ask for additional considerations, then our options will be significantly limited.

Accessibility Resources and Services

If you qualify for extended time on exams or other exam accommodations, please schedule to take all four of your exams at the ARS Testing Center. You should do this at the beginning of the semester to avoid scheduling issues. You may schedule to take a midterm exam at any time during the scheduled exam day. If you have any questions about your ARS/EOC accommodations in this class, please contact the Course Coordinator.

The University of North Carolina at Chapel Hill facilitates the implementation of reasonable accommodations, including resources and services, for students with disabilities, chronic medical conditions, a temporary disability, or pregnancy complications resulting in barriers to fully accessing University courses, programs, and activities. Accommodations are determined through the Equal Opportunity and Compliance Office (EOC) for individuals with documented qualifying disabilities in accordance with applicable state and federal laws. See the EOC Website for more information: <https://eoc.unc.edu/accommodations/>

Counseling and Psychological Services

CAPS is strongly committed to addressing the mental health needs of a diverse student body through timely access to consultation and connection to clinically appropriate services, whether for short or long-term needs. Go to their website: <https://caps.unc.edu> or visit their facilities on the third floor of the Campus Health Services building for a walk-in evaluation to learn more.

Honor Code Policy

The Honor Code and the Campus Code (<https://studentconduct.unc.edu/>), embodying the ideals of academic honesty, integrity and responsible citizenship, have for over 100 years governed the performance of all academic work and student conduct at the University of North Carolina. Acceptance of enrollment at UNC presupposes a commitment to the principles embodied in these codes and a respect for this significant university tradition. Your participation in this course is with the expectation that your work will be completed in full observance of the Honor Code.

Academic dishonesty in any form is unacceptable, because any breach in academic integrity, however small, strikes destructively at the University's life and work. If you have any questions about the Honor Code, please consult with someone in the Office of the Student Conduct or the Office of the Dean of Students. Any issues that students encounter related to fairness or inappropriate conduct should be brought to the immediate attention of an instructor.

You will often collaborate with other students in this course (sharing data, results, and ideas), and you are encouraged to study together outside of class; your learning will be most effective if you think independently before comparing results. However, any written conclusions that are submitted independently and not as a group, or any work submitted for an individual score or grade, must be in your own words and not copied from someone or somewhere else. The specific rules for different types of assignments are given below.

Collaborative work and group submission

You are expected to collaborate on assignments that are explicitly designated as group submissions and will receive a group score. These include group-submitted studio deliverables.

Collaboration allowed, individual submission required

You are allowed to discuss homework, warm-up assignments, and individual submitted studio deliverables with other students and the instructor, but you must write submissions in your own words. Distributing solutions for these assignments from previous semesters is forbidden and will be considered an Honor Code violation.

No collaboration of any kind allowed

During exams, all answers you submit must be solely your own work: any consultation with other students, AIs, or use of on-line solution sites is a serious Honor Code violation.

Consequences of violations

Violations of these rules will be prosecuted without exception through the Office of Student Conduct (OSC). **Submission of evidence to the OSC, regardless of guilt, will result in an immediate suspension of your grade until resolution.** This may prevent you from submitting grades as part of an application to a professional school or internship.

If you are convicted of an Honor Code violation, you may receive a failing grade on an assignment or possibly the entire course. You may also be placed on probation and barred from leadership positions in campus organizations. You may experience delay in progress toward your degree, suspension, or even expulsion from UNC, depending on the type and severity of the offense.

An Honor Code violation tarnishes your academic record and may keep you from getting into professional school or some other intended career path. Students who have been through Honor Court proceedings report that they suffered extreme anxiety throughout the Honor Court proceedings (which can take several months). They also recognized that they had lost their integrity and been unfair to other students and their instructors. Students who have violated the Honor Code by cheating in a physics course at UNC have said that if they had known the consequences of their decision, they would not have made this mistake. **Do not cheat! It's not worth it!**

Artificial Intelligence Use Policy

Use of generative AI tools of any kind is not permitted in this course. Any use of these tools will be considered an instance of academic dishonesty and will be referred to the Honor System.

Policy on Non-Discrimination

We value the perspectives of individuals from all backgrounds including race, gender identity, national origin, ethnicity, religion, social class, age, sexual orientation, political background, and physical and learning ability. We strive to make this classroom an inclusive space for all students. Please let us know if there is anything we can do to improve. We appreciate suggestions.

The University is committed to providing an inclusive and welcoming environment for all members of our community and to ensuring that educational and employment decisions are based on individuals' abilities and qualifications (<https://eoc.unc.edu/our-policies/policy-statement-on-non-discrimination/>). If you are experiencing harassment or discrimination, you can seek assistance and file a report through the Report and Response Coordinators (safe.unc.edu) or the Equal Opportunity and Compliance Office (<https://eoc.unc.edu/report-an-incident>).

TITLE IX Resources

Any student who is impacted by discrimination, harassment, interpersonal (relationship) violence, sexual violence, sexual exploitation, or stalking is encouraged to seek resources on campus or in the community. Reports can be made online to the Equal Opportunity and Compliance Office (<https://eoc.unc.edu/report-an-incident>).

Please contact the University's Title IX Coordinator Elizabeth Hall (titleixcoordinator@unc.edu), Report and Response Coordinators in the EOC (reportandresponse@unc.edu), Counseling and Psychological Services (confidential), or the Gender Violence Services Coordinators (gvsc@unc.edu; confidential) to discuss your specific needs. Additional resources are available at safe.unc.edu.

COVID Response and Face Mask Policy

This is a fully in-person course. As long as it is possible to do so safely, we will be meeting in person this semester. If we need to change the format of the course temporarily due to outbreaks of illness, we will announce this via e-mail and the course site.

UNC-Chapel Hill no longer requires that people wear face masks indoors. The instructional team does not have the authority to make anyone put on or take off a face mask. Some members of the instructional team will be masked, and we encourage everyone to consider their own safety as well as that of others, especially those who are immuno-compromised.

Course Learning Outcomes in alignment with the IDEAS Curriculum

Natural Scientific Investigation Focus Capacity in IDEAS Curriculum

- Demonstrate the ability to use scientific knowledge, logic, and imagination to construct and justify scientific claims about naturally occurring phenomena, including validation through rigorous empirical testing.
- Analyze and apply processes of scientific inquiry as dictated by the phenomena and questions at hand. These include generating and testing hypotheses or theories pertaining to the natural world; using logic and creativity to design investigations to test these hypotheses; collecting and interpreting data about the natural world; making inferences that respect measurement error; building and justifying arguments and explanations; communicating and defending conclusions;

revising arguments and conclusions based on new evidence and/or feedback from peers; and synthesizing new knowledge into broader scientific understanding.

- Evaluate science-related claims and information from popular and/or peer-reviewed sources by examining the relationship between the evidence, arguments, and conclusions presented and by assessing consistency with existing knowledge from valid and reliable scientific sources.
- Identify, assess, and make informed decisions about ethical issues at the intersections of the natural sciences and society.

Empirical Investigation Lab in IDEAS Curriculum

- Take empirical measurements using appropriate apparatus.
- Generate and test hypotheses.
- Gather, store, and organize data.
- Analyze and report on data and hypothesis testing.

Quantitative Reasoning in IDEAS Curriculum

- Summarize, interpret, and present quantitative data in mathematical forms, such as graphs, diagrams, tables, or mathematical text.
- Develop or compute representations of data using mathematical forms or equations as models, and use statistical methods to assess their validity.
- Make and evaluate important assumptions in the estimation, modeling, and analysis of data, and recognize the limitations of the results.
- Apply mathematical concepts, data, procedures, and solutions to make judgments and draw conclusions.

Course Learning Outcomes in alignment with the First-Year Launch Program

Beside the learning goals stated at the beginning of the syllabus, additional learning outcomes for the First-Year Launch section are:

- Connect with a faculty member early in the educational process.
- Learn intensively among a small cohort of students.
- Apply methods for how scholars pose problems, discover solutions, resolve controversies, and evaluate knowledge.
- Analyze and communicate issues associated with a broad, introductory topic, covering a wide range of knowledge.

Syllabus Changes

The professors reserve the right to make changes to the syllabus including assignment due dates and test dates. These changes will be announced as early as possible.

Physics 118H Additional Information (Honors Section Only)

PHYS118H is a first-year launch AND honors section. First-year launch students may enroll in this section if they are either in the UNC Honors program or by permission of the course coordinator, if approved by the Honors program office. Students enrolled in PHYS118H will meet with the regular 118 lectures but will have a separate studio section (118H-401) taught by a faculty member.

Students in PHYS118H will engage in all the same activities that the students in the other sections do but will also have opportunities to broaden and deepen their physics understanding and technical skills through additional activities (typically done outside the class meeting time) in Modules 02, 04, 07, 12, 16, and 24. As an example, all students will be introduced to programming in Python, but the Honors section will include a more in-depth exploration. For some topics, aspects of the physics omitted in the main part of the course (such as drag in 2D kinematics) will be covered in an additional activity. Each additional activity will be part of a module (though not all modules will have additional activities) and will be included in the student's final grade as part of the total studio score. Except for these additional activities, all other course requirements will apply equally to both honors and non-honors students.

The grading weights for PHYS118H will be modified from that of the non-honors enrollees as follows:

Lecture Participation: 5%	Studio Participation: 5%
Warm-Up Assignments: 5%	Homework Assignments: 15%
Studio Deliverables: 10%	Honors Activities: 10%
Midterm Exams: 30%	Final Exam: 20%