

## Physics 151/251– All Sections

Fall 2023

**Note:** The material covered in Physics 151 and 251 is so similar that the courses are often combined. Physics 151 and 251 both have a required lab session each week. However, Physics 151 is 3 credits while Physics 251 is 4 credits. Physics 251 will always substitute for Physics 151, but NOT the other way around. Choose wisely.

**Class Meeting Times:** Lectures: Tue. and Thu: 4:35 – 5:50 pm (3 Romano)  
Lab Section 1: Fri: 1:25 – 3:20 pm (6 Romano)  
Lab Section 2: Fri: 3:35 – 5:30 pm (6 Romano)

**Class Meetings:** Our class meetings will be live, face-to-face as much as possible. However, sometimes due to complications beyond our control, our class meetings may be ‘online’ using ZOOM. My goal in this case is to provide you with similar instruction, interaction, and assessments to those you would have received in the physical classroom.

**NOTE:** You will access our Zoom classroom when/if needed using a link provided by the instructor at that time. If you are new to Zoom, please read “[Participating in a Zoom Meeting Quick Start Guide](#).” An additional resource is the [joining a test meeting](#) ahead of your scheduled class to practice connecting to a Zoom room.

**Instructor:** Kip Trout, B.S., M.S., Physics

**Office Hours:** By appointment. Please text to make an appointment before coming.  
Mon. and Wed.: 1:30 – 3:30 pm (text to make an appointment)  
Tue. and Thu.: 3:30 – 4:15 pm (text to make an appointment)  
Or... other times that work, (text to make an appointment).

**Phone:** (717)-676-1274 (**Only texts reliably come through. Always text first if you can.**)

**Email:** [kxt7@psu.edu](mailto:kxt7@psu.edu)

**NOTE:** It is **imperative** that you check your Penn State e-mail account **regularly** (daily). Important communications from the university will be sent to your PSU email address.

### **Communicating with the Instructor:**

- If the message is **urgent**, then **please text the phone number above**.
- Voice calls to my phone are sometimes blocked as fraud calls, so always text first.
- If communicating via email, you should always use your PSU email account to communicate with the instructor of this course. Depending upon network servers and filters, the instructor may not receive email from other email domains.
- Please allow the professor at least 24 hours to respond to your email.

### **CANVAS Announcements:**

The instructor will make extensive use of the course ANNOUNCEMENT feature in the CANVAS online course management software system. **(There is more information about CANVAS near the end of this document.)**

It is **imperative** that you set up your CANVAS communications to receive these announcements in a quick fashion. I recommend setting things up so that you get rapid notice on your smartphone.

CANVAS Announcements can be sent to your email by going to Account → Notifications → Click the checkmark next to “Announcements” and “Conversation Message” for “Notify me right away.”

You should check CANVAS Announcements on our CANVAS course page often, or else set up CANVAS announcements to immediately forward to your smartphone as discussed above.

### **Instructor Goals and Objectives:**

- To help you become a better college student.
- To provide students with:
  - a working knowledge of the elementary physics principles covered in the course.
  - physics principles' applications to everyday phenomena and to science/engineering
  - an enhanced conceptual understanding of the physical laws of the universe
  - increased problem-solving abilities, especially as applied to physical systems.

### **Textbook:**



**COLLEGE PHYSICS - MASTERING PHYSICS VERSION | Ed:11th**

Author: YOUNG

Publisher: PEARSON

ISBN: 9780134878034

**You must register for the course materials at Pearson's Mastering Physics website.** Directions are provided on the last page of this syllabus. I believe you can purchase an access code for the Mastering Physics account via the campus bookstore, but you will still need to set up your Pearson account for it to work. The Mastering Physics account will include an electronic version of the textbook and other electronic materials for the course. A hard copy of the textbook is not required for the course, but this electronic Mastering Physics account at Pearson **IS REQUIRED**. You will use it in numerous ways, including to submit your graded homework.

### **Other Required Materials:**

- **Computer with the Mozilla Firefox browser installed** so that you can properly use ZOOM, CANVAS, and your Mastering Physics account on the internet.
- **Webcam, microphone, computer** (for any online class session or work)
- **Smartphone with photographic/video capability, or a document scanner** (for submitting work electronically)
- **Calculator** (one with at least Scientific Notation and the basic trigonometric functions COS, SIN and TAN)
- **Plenty of paper, pencils, and erasers!**

### **IMPORTANT:**

This course requires you to have a webcam and microphone. Some classes and assessments may be conducted using ZOOM, CANVAS, or other technology selected by your instructor which may use your computer's webcam or other technologies to communicate, monitor, and/or record classes, class activities, and assessments. **Be aware that video and audio recordings of class lectures will be part of the classroom activity. The video and audio recordings made by the instructor are for educational use/purposes and will only be made available to all students presently enrolled in the class. For purposes where the recordings will be used in future class session/lectures, any**

**type of student identifying information will be adequately removed.** Assessments (e.g., tests) may also be conducted using proctoring software, which may listen to you, monitor your computer screen, view you and your surroundings, and record (including visual and audio recordings) all activity during the proctoring process. Please contact your instructor if you have any questions or concerns.

### **Attendance and In-Class Exercises:**

Attendance is required. You will log your attendance daily by signing an attendance sheet that will be passed around each class. It is up to you to see that you have signed the attendance sheet to indicate your presence. **Poor attendance will have a negative impact on your final course grade.**

On occasion, as part of the lecture, the instructor may assign a short In-Class Exercise to be performed in class. These exercises are often ‘pop’ exercises and NOT announced ahead of time, but they WILL be graded. **By the end of the semester, these graded In-Class Exercises and your attendance in lectures will together make up 10% of your course grade.**

Because of the nature of these In-Class Exercises and their collaborative nature, **YOU MUST BE PRESENT IN CLASS TO RECEIVE CREDIT ON IN-CLASS EXERCISES.** There will be no opportunity for making up In-Class Exercises. Attendance is necessary for credit. To account for unavoidable absences due to illness, your six lowest in-class exercise/attendance grades will be dropped at the end of the semester. Use these drops wisely. Attend class and participate.

We may (on the rare occasion) use an assigned online discussion (using the CANVAS Discussion tool) to count as an In-Class Exercise. These will be assigned by the instructor as needed. If assigned, please respond to the prompts on CANVAS by the due date indicated. If you are unfamiliar with CANVAS discussions, please view this brief video: “[Canvas: Student Discussions Overview](#).”

As far as what qualifies as ‘participating in a discussion board’ for credit, some examples are: 1) responding directly to a previous student’s post; 2) posting an original question or comment regarding the discussion, homework problem, or assigned topic; 3) sharing a link or citation from a text or other source that contributes to discussion of the topic.

### **Make-Ups:**

You should **NOT ASSUME** that you can make up anything in the course – most especially the **quizzes**. The quizzes are online in CANVAS, and you have about a week to complete them. So, do not procrastinate starting them. **Details for the rare test makeup are provided in the statement on Academic Integrity.** This is an important document provided later in this packet. Be sure to read it carefully and in its entirety.

### **Important:**

- **You must have the lecture notes available to you during lectures.** I recommend setting up your smartphone with the CANVAS Student app so that you can access the pdf versions of the lecture notes during class. That seems to work well for most students.
- **Additionally, you should ALWAYS have your calculator with you at all times in this course.** We WILL use calculators often – even in lectures – so be ready to go.
- **This is an algebra/trigonometry-based physics course. If you know you have trouble with math, you should brush up on what you can NOW!**

### Archiving:

I strongly advise you to keep backup copies of ALL materials submitted for grading so that you can re-submit them to your instructor at some point if it becomes necessary. The instructor cannot be held responsible for Acts of God or cyber gremlins. Saving your work will allow him to reconstruct your gradebook if disaster strikes.

### Homework Assignments:

This semester, my plan is to keep track of homework performance via the Mastering Physics homework assignment system. The homework assignments will be made as the course progresses. The anticipated topic coverage and reading assignments are listed later in this syllabus. The topics are numbered, but this numbering is not by class, but rather is meant only to provide a planned order of progression. The course has some flexibility as far as topic coverage, so if the class has interest in a particular area, we may delve deeper into that topic and eliminate another topic from our plan.

**The course syllabus, PowerPoint presentations, solutions to assigned homework, quizzes and tests will be made available on PSU's class management platform called CANVAS as the semester moves along.** Please check the solutions and answer keys available in CANVAS first before taking time in class to ask about a homework problem. Sometimes seeing a homework solution is all that is necessary to find out where you went wrong.

**Strong effort in homework is extremely important in the course!** We will go over a homework problem on occasion in lectures, and more during some lab periods on weeks when we do not have an experiment activity. Of course, it is to your advantage to keep up to date on the reading and homework problems. **Your combined homework score at the end of the semester will count for 10% of your course grade.** To account for 'everyday type' emergencies, I will drop your lowest **THREE** homework scores. Use these drops wisely.

### Quizzes/Tests and Final Examination:

**There will be 5 quizzes, 2 mid-term tests, and a comprehensive final exam in the course.** The quizzes and tests will be mostly multiple choice, but you should be prepared for any type of question. The quizzes will be taken electronically through CANVAS. **The quizzes will each be worth 3% of your course grade. The tests will each be worth 15% of your course grade, and the final exam will be worth 19%.**

Quizzes will have a due date but will not have a time limit while working on them in CANVAS. You will be able to log out and back in as many times as you want. You will be given roughly 75 minutes for each test. The final exam will be a 2-hour comprehensive exam given during finals week during the period assigned to us by the registrar.

The final exam will cover all course material. The tests may cover material learned in lectures, reading assignments, homework problems, quizzes, labs, and other activities assigned in the course. The test format will likely always be multiple choice, but you should know the material and be prepared for any type of question. The instructor will discuss the general test taking rules and procedures as we get closer to the first exam date.

### Laboratory:

**There is a 2-hour laboratory session each week for this course which you are required to attend. Your final lab grade will be worth 16% of your course grade.** The laboratory part of the course will be discussed further during your first lab session.

### Lab Make-Ups:

Because you must work with partners, **lab makeups cannot be guaranteed.** You should **NOT ASSUME** that you can just attend another lab section. If you become ill and are unable to make it to

your scheduled lab class, please contact the instructor as soon as possible to discuss your situation, and to see if a solution can be worked out.

**Grading:** Final grades in the course will be based on a comparison with the **highest score** in the class. At the end of the semester, the grades will be scaled so that the student with the highest grade at the end of the semester is pinned to be somewhere between 92% and 100% (usually), and everyone else is objectively scaled accordingly. Then the grades are assigned as follows:

|             |    |             |    |
|-------------|----|-------------|----|
| 100% - 92%  | A  | 79.9% - 78% | C+ |
| 91.9% - 90% | A- | 77.9% - 70% | C  |
| 89.9% - 88% | B+ | 69.9% - 60% | D  |
| 87.9% - 82% | B  | 59.9% - 0%  | F  |
| 81.9% - 80% | B- |             |    |

|   |             |
|---|-------------|
| Quizzes (5 each worth 3%)                     | 15%         |
| Homework (Total)                              | 10%         |
| Tests (2 each worth 15%)                      | 30%         |
| POP In-Class Exercises and Attendance (Total) | 10%         |
| Lab Grade                                     | 16%         |
| <u>Final Exam (During Finals Week)</u>        | <u>19%</u>  |
| <b>TOTAL</b>                                  | <b>100%</b> |

**The instructor reserves the right to revise this grading system if he believes it is providing unfair or unreasonable grades. You must ultimately be competent in the course material and have regular attendance in order to pass.**

**Be sure to read the university's most up to date official syllabus statements at the following website. These statements should be considered a part of THIS syllabus. The link is provided because the language is similar for all Penn State University courses:**

<https://york.psu.edu/academics/support/academic-affairs/syllabus-statements>

**Additionally, your professor, Kip Trout, has the following policies and reminders for you in this course. It is important that you understand these policies. Please ask Kip Trout questions about these policies if you need clarification.**

## MAKE-UPS and ACADEMIC INTEGRITY

### Academic Integrity Statement and Policy for Kip Trout's Courses

**A quick summary of the basic policy is as follows: Do not cheat; do not plagiarize; do not lie; do not take part in falsehoods or deceptions of any sort. If you think you may be doing something wrong, you probably are.**

There will be many opportunities for help, and I am always striving to be fair to all students. Collaborations and discussions among students are strongly encouraged – at appropriate times – such as during In-Class Exercises and appropriate out of class experiences. However, I expect your best efforts to individually learn the material, and I expect honesty and academic integrity in all aspects of the course.

All Penn State University policies, Eberly College of Science policies, and University College policies regarding academic integrity/ academic dishonesty apply to this course and the students enrolled in this course. Each student in this course is expected to work entirely on her/his own while taking any exam, to complete assignments on her/his own effort without the assistance of others unless directed otherwise by the instructor, and to abide by University, Eberly College of Science, and University College policies about academic integrity and academic dishonesty.

As described in [The Penn State Principles](#), academic integrity is the basic guiding principle for all academic activity at Penn State University, allowing the pursuit of scholarly activity in an open, honest, and responsible manner. We expect that each student will practice integrity regarding all academic assignments and will not tolerate or engage in acts of falsification, misrepresentation, or deception.

Dishonesty of any kind will not be tolerated in this course. Dishonesty includes, **but is not limited to,** cheating, plagiarizing, fabricating information, or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. To protect the fundamental ethical principles of the University community and the worth of work completed by others, we will record and report to the office of Judicial Affairs all instances of academic dishonesty. ([Faculty Senate Policy 49-20](#))

Students who are found to be dishonest will receive academic sanctions and will be reported to the University's Judicial Affairs office for possible further disciplinary sanction. Academic dishonesty can result in an assignment of "F" by the course instructor or "XF" by Judicial Affairs as the final grade for the student.

## Make-Up Policy for Kip Trout's Courses

In general, I will not provide extensions on deadlines. I will not, in general, provide makeups (except possibly for exams).

Any missed work will receive a score of zero unless there are special circumstances that warrant an excuse (see below). These should be discussed with the professor on a case-by-case basis.

To help account for 'everyday-type' emergencies, during the semester I will drop your SIX lowest scores from the Attendance and In-Class Exercises grade, and at the end of the semester when calculating final graded homework average, I will drop your THREE lowest Graded Homework scores in Mastering Astronomy.

**In the case of sudden or unexpected events (i.e., special circumstances) that will cause a student to miss an exam (or multiple graded assignments), students are required to notify the instructor prior to the exam/assignment due date or within 24-hours of the exam/assignment due date. The instructor MAY make an accommodation in this case if the reason provided qualifies as a special circumstance in the instructor's opinion. Otherwise, a grade of zero will default for the exam or assignments that were missed.**

**Students who are physically unable to take an exam at the regularly scheduled time (e.g., because of an illness or 'special circumstances') should NOT attempt to attend/take the regular exam, because once the examination is taken, its result is final. In this case the student should contact the instructor immediately to discuss a makeup.**

Makeup exams will be scheduled separately and should be taken no later than three business days after being able to return to classwork. Students who do not take the make-up exam within the very reasonable time limit of one week from returning to classwork will receive a zero for the exam. Barring unusual emergencies, only one makeup opportunity is granted for each special circumstance accepted by the instructor.

As discussed above, if an emergency of any sort (i.e., special circumstance) is causing you to miss an exam (or multiple graded assignments), please contact the instructor immediately to discuss this. Excuses will be granted only for valid reasons, and the instructor may make phone calls or require follow-up documentation to ascertain the excuse is legitimate. Special circumstances are things such as:

1. Family emergencies. This includes a death in the immediate family, death of a close friend, sudden hospitalization of a close family member, recent mentally traumatic experiences, and events of similar gravity.
2. The student experiences the onset or flare-up of an incapacitating illness and/or injury.
3. A university-approved curricular or extra-curricular activity. In this case, a student needs to obtain a letter (or a class absence form) from the unit or department sponsoring the activity. The letter must indicate the anticipated absence date(s), and it must be submitted by email to the instructor.



**Coronavirus and Flu Outbreaks:** For any health-related questions you can email the Director of the University Health Services, at [uhsinfo@sa.psu.edu](mailto:uhsinfo@sa.psu.edu).

**Campus Closure and Delay Information:**

In the event of a campus closure, course requirements, classes, deadlines, and grading schemes are sometimes adjusted. Information about course changes will be communicated to you in some reasonable manner by the instructor as soon as possible.

For notification about campus closures, please refer to Penn State York's website at <http://www.york.psu.edu>, call the weather hotline at 717.771.4079, or sign up for live text messages at PSUAlert (<https://psualert.psu.edu/psualert/>).

If there is any change in the regular class schedule or the final exam schedule, an alert will be posted to on the campus website and sent via [PSUAlert](#).

The campus weather policy is very simple:

In the event of a snow '**delay**' or weather '**delay**', you likely STILL have class at the same time.  
**ONLY CLASSES BEFORE 10:00 am are canceled by weather delays.**

In the event of a campus '**closing**', then **NO classes will meet, not even via ZOOM.**

**WARNING: PLEASE DO NOT CALL THE CAMPUS PHONE NUMBER TO ASK WHAT TIME YOUR CLASSES MEET WHEN WE HAVE A WEATHER DELAY!** It bogs down the phone line and restricts communications that are necessary and important. Be sure you know PSU York's weather-related information BEFORE it happens. Store the information in your phone (or SOMEwhere) so that you have it handy!

**Some Dates of Interest:** Aug. 14 – Sep. 5, 2023: Apply for Graduation activation period.  
Sat. Aug. 26: Regular Drop Deadline  
Sun. Aug. 27: Regular Add Deadline  
Mon. Sep. 4: **NO CLASSES** – Labor Day  
Fri. Nov. 10: Late Drop Deadline  
Nov. 19 - 25: **NO CLASSES** – Thanksgiving Break  
Fri. Dec. 8: Last Day of Classes  
Dec. 11 - 15: Final Exams

**Syllabus subject to change:** I anticipate that we will follow the schedule I have outlined here, but I may adjust it based upon what happens this semester. Be sure to check with a classmate after an absence to see if assignments have changed. I may also change the basis for the course grade. If I do so, I will communicate this in a reasonable method.

**Remaining in the course after reading this syllabus (which is a requirement of the course) signals that you accept the possibility of changes in the course policies and responsibility for being aware of them.**



**Physics 151/251**  
**Fall 2023**

The following outline lists the order in which we will progress this semester. The reading assignments are not listed by week or class, but rather are listed in the order of progression. We will move through the material as quickly as practically possible in order to achieve the goal set for us by the university. Generally speaking, you should try to stay a class ahead in the reading, and you should be finishing the homework by the assigned due date in CANVAS.

| TOPIC  | READ                            |
|--|---------------------------------|
| Ch. 17 Electric Charge and Electric Field  | All (17.1 – 17.9)               |
| Ch. 18 Electrical Potential and Capacitance  | All (18.1 – 18.7)               |
| Ch. 19 Current, Resistance and Direct-Current Circuits   | All (17.1 - 17.9)               |
| Ch. 20 Magnetic Field and Magnetic Forces  | All (20.1 – 20.11)              |
| Ch. 21 Electromagnetic Induction   | All (21.1 - 21.12)              |
| Ch. 22 Alternating Current   | All (22.1 – 22.5)               |
| Ch. 23 Electromagnetic Waves   | Sect. 23.1 – 23.3; 23.7 – 23.10 |
| Ch. 26 Interference and Diffraction  | Sect. 26.1 – 26.6               |
| Ch. 28 Photons, Electrons, and Atoms   | All (Sect. 28.1 - 28.8)         |
| Ch. 30 Nuclear and High-Energy Physics   | Sect. 30.1 – 30.7               |
| Ch: 24 Geometric Optics  | Sect. 24.1 - 24.3; 24.5 – 24.6  |
| <p><b>Quiz 1 – Wednesday, 9/13/23</b><br/><b>Quiz 2 – Wednesday, 9/27/23</b><br/><b>TEST 1 – Tuesday, 10/10/23</b><br/><b>Quiz 3 – Wednesday, 11/01/23</b><br/><b>TEST 2 – Tuesday, 11/07/23</b><br/><b>Quiz 4 – Friday, 11/17/23</b><br/><b>Quiz 5 – Wednesday, 12/06/23</b><br/><b>Final Exam – During the time and in the location assigned by the registrar.</b></p> |                                 |

## Laboratory for Physics 151/251 - Fall 2023

- Reasons for Lab:**
- 1) To demonstrate basic principles learned in the lectures, homework, reading assignments, and graded assignments; and
  - 2) To improve your *technical writing skills and data analysis skills*

- Lab Equipment:**
- 1) Weekly Lab Handout (instructor will provide) and Lab Handbook/Manual (instructor will provide)
  - 2) Scientific calculator, pen, pencil, eraser

**Lab Partner:** You will work in groups of two (or three at most). You and your partner(s) must work together. The work during the lab should be split equally. If you must leave lab class early for *any* reason, then you should take your share of the data first. Do not leave your partner(s) hanging.

**Lab Reports:** Lab reports will require submitting the relevant information and answering any assigned questions by the end of the lab period. Lab reports will be put together with your lab partner(s) and then submitted in CANVAS via the quiz tool. It is important to work **NEATLY** during the labs. Many times, you may write your data, calculations or answers directly onto your lab report handout. If you do that neatly enough, then you can often scan and submit photos of that work. But, again, please be sure it is very **NEAT**. If I cannot read it, it is assumed to be **WRONG**.

**Attendance:** You must attend the lab part of the course. Your grade will be negatively affected if you miss lab. Missing one lab will unlikely affect your final grade in the course, however two or more missed labs, or poor participation while at lab, will lower your grade in the course.

**Grades:** There will be 8 lab experiments and 6 homework/review sessions during the semester. You are required to attend and participate in each. We will meet **EVERY** week of the semester for lab **EXCEPT** the first week of the semester where you have an out of class assignment. Each experiment session you will receive a lab grade that is determined by your attendance and your group's participation and submitted lab report. You will also receive a grade for your attendance and participation in the homework/review sessions. Each week is equally weighted. **Your lab score for the semester is worth 16% of your course grade in total!**

## Physics 151/251 – Tentative Lab Schedule - Fall 2023

The following schedule lists the tentative labs and lab dates for this semester – it could change.

- Week 1... (8/25) .....**NO LAB EXPERIMENT – Use the time to get organized in the class.**
- Week 2... (9/1).....Experiment 1 – "The Force Table – A Lab Reviewing Vectors"
- Week 3... (9/8)..... **HOMEWORK SESSION**
- Week 4... (9/15).....Experiment 2 – "Electric Field Mapping"
- Week 5... (9/22)..... Experiment 3 – "Capacitors and RC Circuits"
- Week 6... (9/29)..... **HOMEWORK SESSION**
- Week 7... (10/6) ..... **REVIEW for TEST 1**
- Week 8... (10/13)..... Experiment 4 – "Magnetic Field Mapping"
- Week 9... (10/20)..... **HOMEWORK SESSION**
- Week 10... (10/27)..... Experiment 5 – "Charge to Mass Ratio of the Electron"
- Week 11... (11/3).....**REVIEW for TEST 2**
- Week 12... (11/10).....Experiment 6 – "Wavelength of Laser Light and CD Track Spacing"
- Week 13... (11/17)..... Experiment 7 – "Atomic Light Emission"
- (11/24).....**THANKSGIVING BREAK – NO CLASS**
- Week 14... (12/1).....Experiment 8 – "Radioactivity - Half Life – (Computer Version)"
- Week 15... (12/8).....**REVIEW for the FINAL EXAM**
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### Important NOTES:

**There will be NO lab makeups except for extraordinary circumstances.** *If you miss a lab session for any reason (including illness or business trip), you will most likely lose your points for that week.* If you feel there is a reason for an exception to this rule, please speak with the instructor. Above all, the instructor wants you to feel confident that all students in the class are being treated fairly, but he also wants to be sure you are being accountable to helping your lab partner.

**You should always keep a backup copy of your lab work (e.g., a digital photograph or scan saved on a computer)! You should also keep a record of course grades for grade auditing purposes.**

Pay attention to the instructor's comments and ask questions if you do not understand, and you should be able to bring your scores up.

## **Getting Started with CANVAS**

Penn State uses a Course Management System called CANVAS. This is the place where many of your faculty members will store their syllabi, course materials, and sometimes quizzes, discussions, and places to turn in homework electronically. You can also see your course grades in Canvas if a faculty member chooses to use the gradebook. Your faculty members will tell you where to go to access your course materials - either on Canvas, or simply in class.

### **Communication in Canvas**

Many times, faculty will also use the built-in communication tools like Canvas Inbox (mail tool) or announcements to keep you up to date. These are different from your official PSU email (webmail.psu.edu). Your faculty members will tell you how they prefer you to communicate with them. Just ask if you are not sure.

### **If you need technical help using Canvas**

PSU has purchased a very robust help system for you. First, log-in to Canvas by clicking on the sign-in to Canvas button at

<https://lmstools.ais.psu.edu/login/index.html>.

Then in the bottom left corner of the Canvas screen, you will see a "?" Help icon. Click on the "?" and your help options will appear in a pop-up box - everything from chat, to phone, to guides, to email support. Please use the help options, they are great!! You can also look things up yourself in the Student Guide (one of the help options above!) available at <https://community.canvaslms.com/docs/DOC-4121>

### **Setting up Notifications**

Canvas has very powerful notification settings that you can use to get updates via email or text message on things like announcements, grade postings, messages, and calendar changes. However, these all depend on how your faculty member decides to use Canvas. If they are not using the announcement feature, for example, then obviously, you will not get a text message with those kinds of updates. The most important thing to remember is to talk to your faculty members (usually posted in the syllabus) about how they want you to communicate with them and which features they decide to use. To read more about notification settings, go to <https://community.canvaslms.com/docs/DOC-1286>

### **Canvas App**

Lastly, Canvas has a student app that you can install on iPads, Android tablets, and smartphones. You can download these from the app store on your device. Use technical support if you have questions.

### **Mastering Physics**

Establish your understanding of how to get into CANVAS and familiarize yourself with the course material available there. Then click on the **Mastering Physics** link along the left side menu in our CANVAS course and follow the instructions on the next page to set up Mastering Physics. **YOU MUST SETUP Mastering Physics to be properly registered in this course and to do the graded homework!**

## Student Registration Instructions

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### To register for **Physics 151/251 - Fall 2023 - Penn State York - Trout**:

1. Go to <https://mlm.pearson.com/enrollment/trout09631>
2. Sign in with your Pearson student account or create your account.  
For Instructors creating a Student account, do not use your instructor credentials.
3. Select any available access option, if asked.
  - » Enter a prepaid access code that came with your textbook or from the bookstore.
  - » Buy instant access using a credit card or PayPal.
  - » Select **Get temporary access without payment for 14 days**.
4. Select **Go to my course**.
5. Select **Physics 151/251 - Fall 2023 - Penn State York - Trout** from My Courses.

If you contact Pearson Support, give them the course ID: trout09631

### To sign in later:

1. Go to <https://mlm.pearson.com>
2. Sign in with the same Pearson account you used before.
3. Select **Physics 151/251 - Fall 2023 - Penn State York - Trout** from My Courses.