

PHY 101: Introduction to Physics (2024 Fall B)

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PHY 101: Introduction to Physics

Course and Faculty Information

Course Description: The goal of PHY101 Introduction to Physics, is to provide students with a broad overview of fundamental physics concepts.

The specific areas covered are Mechanics, Gravitation, Thermal phenomena, Electricity and Magnetism, Light, Atomic Physics and Relativity.

The course will use mathematical language, at the level of basic algebra and trigonometry. It will not be focused on calculations, but students are expected to solve problems using these mathematical tools.

Previous experience with physics is not required, though the course assumes familiarity with basic science concepts: measurements, the structure of the solar system, and basic atomic theory.

Credits: 4

Instructor: Jared Washburn

Contact Info:

Email: jared.washburn@asu.edu and via the canvas messaging system.

Office Hours: Wednesday at 4PM AZ time <https://asu.zoom.us/j/2690781100>

Course Learning Objectives

At the completion of this course, students will be able to:

1. Appreciate the role of physics as the fundamental science that helps explain both everyday phenomena as well as the behavior of matter at the microscopic and cosmic scale.
2. Carry out simple experiments that demonstrate the application of the laws of physics. Explore through simulations properties of matter at the microscopic scale.

Textbooks

The required material for this course, Modified Mastering Physics w/Conceptual Physics 13th ed, will be provisioned as an e-book and made available at a discounted price significantly cheaper than if purchased directly from the publisher. If you wish to take advantage of this discounted group price, no additional action is needed. NOTE: Following the drop/add period, a charge of \$93.74, plus tax, will post to your student account under the header "Bkstr Publisher Negotiated Rate" and your access will continue uninterrupted.

IF you'd rather purchase the material from an alternate source, you may choose to opt out of the program by using this link: <https://includedcp.follett.com/1230> ➡

(https://urldefense.com/v3/_https://includedcp.follett.com/1230_!!IKRxdwAv5BmarQ!f-Z0VtHXmjplILEXPbynIN_eRLsulhN41VkMOvETB0cgCok1e5zEWmtAg75IROsoxJhVna7rYW0QnSWN%24)*.

Enter your ASU e-mail address AS IT APPEARS IN THE ASU DIRECTORY (<http://asu.edu/directory> ➡ (<http://asu.edu/directory>)), then follow the instructions provided. Be aware that if you do opt-out, your access to the e-book will be discontinued.

TO ACCESS THE E-BOOK, CLICK ON THE BRYTEWAVE TOOL IN YOUR COURSE'S CANVAS SHELL. This will generate a Pearson MyLab/Mastering code. Copy this code and paste into the appropriate box in the Canvas Pearson Access link. Please note: the ebook won't appear on your shelf until approximately 5 days prior to the start of classes. If you need assistance accessing the book or the opt-out portal, please fill out the support request form:

<https://forms.gle/uD4GhBxMoixnbwYx5> ➡

(https://urldefense.com/v3/_https://forms.gle/uD4GhBxMoixnbwYx5_!!IKRxdwAv5BmarQ!f-Z0VtHXmjplILEXPbynIN_eRLsulhN41VkMOvETB0cgCok1e5zEWmtAg75IROsoxJhVna7rYWGvF2lo%24).

Course Access

Your ASU courses can be accessed by both my.asu.edu ➡ (<http://my.asu.edu/>) and asu.instructure.com; bookmark both in the event that one site is down.

Computer Requirements

This is a fully online course; therefore, it requires a computer with internet access and the following technologies:

- Web browsers ([Chrome](https://www.google.com/chrome) [Links to an external site.](https://www.google.com/chrome) ➡ (<https://www.google.com/chrome>), [Mozilla Firefox](https://www.mozilla.org/en-US/firefox/new/) [Links to an external site.](https://www.mozilla.org/en-US/firefox/new/) ➡ ([http://www.mozilla.org/en-US/firefox/new/](https://www.mozilla.org/en-US/firefox/new/)), or [Safari](https://www.safari.com) [Links to an external site.](https://www.safari.com)

an external site. [⌂\(http://www.apple.com/safari/\)](http://www.apple.com/safari/)

- **Adobe Acrobat Reader**[Links to an external site.](http://get.adobe.com/reader/) [⌂\(http://get.adobe.com/reader/\)](http://get.adobe.com/reader/) (free)
- Webcam, microphone, headset/earbuds, and speaker
- Microsoft Office (**Microsoft 365 is free** [⌂\(https://myapps.asu.edu/app/microsoft-office-2016-home-usage\)](https://myapps.asu.edu/app/microsoft-office-2016-home-usage) for all currently-enrolled ASU students)
- Reliable broadband internet connection (DSL or cable) to stream videos.

Note: A smartphone, iPad, Chromebook, etc. will not be sufficient for completing your work in ASU Online courses. While you will be able to access course content with mobile devices, you must use a computer for all assignments, quizzes, and virtual labs.

Help

For technical support, use the Help icon in the black global navigation menu in your Canvas course or call the ASU Help Desk at 1+(855) 278-5080. Representatives are available to assist you 24 hours a day, 7 days a week.

Student Success

To be successful:

- check the course daily
- read announcements
- read and respond to course email messages as needed
- complete assignments by the due dates specified
- communicate regularly with your instructor and peers
- create a study and/or assignment schedule to stay on track
- access **ASU Online Student Resources** [⌂\(https://goto.asuonline.asu.edu/success/online-resources.html\)](https://goto.asuonline.asu.edu/success/online-resources.html)

Digital Literacy

Below are some of the skills you'll need to utilize to be successful in this ASU Online courses:

- Using Canvas LMS - For additional help on this, visit the **Canvas Resources for Students** [⌂\(https://lms.asu.edu/resources-students\)](https://lms.asu.edu/resources-students) or the **Student Canvas Guide**[Links to an external site.](https://community.canvaslms.com/t5/Student-Guide/tkb-p/student) [⌂\(https://community.canvaslms.com/t5/Student-Guide/tkb-p/student\)](https://community.canvaslms.com/t5/Student-Guide/tkb-p/student). Be sure to bookmark these resources for future reference!
- Using email with attachments
- Creating and submitting word files
- Copying and pasting
- Downloading and installing software
- Using presentation and graphics programs

The ASU Library has a number of tutorials available to support students in expanding their digital literacy skills: **ASU Library tutorials**  (<https://lib.asu.edu/tutorials>)

Components

This course has both a lecture and a lab component.

The lecture will cover 14 chapters of the text. Students should read and these chapters, and identify key concepts and relations. To facilitate this goal, lectures summarizing key points are provided as videos. In addition, the power points used are also available as separate files without narration. Content of these chapters is the base for homework and exams. Please note that the textbook is the key source and you can expect homework to deal with topics that appear in the text even though they are not mentioned in the slides/video.

A homework is assigned for each chapter. Students will complete homework in the Mastering Physics system. This is a key part of the course and completion of these assignments is crucial as both a learning tool and as part of the grade structure of the course. To help students prepare and take advantage of the assignments, a set of solved problems and exercises as video lectures.

The lab component consists of 8 at-home labs. These involve easily available materials or use computer simulations.

The course closely follows the materials presented in the textbook Conceptual Physics by Hewitt. The course will cover 14 chapters of the text, each corresponding to a unit within a module. These chapters are:

Content

Module 1. Mechanics.

Unit 1. Chapter 1. About Science.

Unit 2. Chapter 2. Newton's First Law of Motion-Inertia.

Unit 3. Chapter 3. Linear Motion.

Module 2. Mechanics II.

Unit 4. Chapter 4. Newton's Second Law of Motion.

Unit 5. Chapter 7. Energy.

Unit 6. Chapter 9. Gravity.

Module 3. Thermal Phenomena.

Unit 7. Chapter 15. Temperature, Heat and Expansion.

Unit 8. Chapter 16. Heat Transfer.

Module 4. Electricity and Magnetism.

Unit 9. Chapter 22. Electrostatics.

Unit 10. Chapter 24. Magnetism.

Module 5. Light.

Unit 11. Chapter 26. Properties of Light.

Unit 12. Chapter 31. Light quanta.

Module 6. Modern Physics.

Unit 13. Chapter 32. The Atom and the Quantum.

Unit 14. Chapter 35. Special Theory of Relativity.

Homework

There is an assigned homework for each chapter of the text.

To access the homework you need to create an account with Mastering Physics. Instructions appear in a separate document.

Homework is graded individually, but you are encouraged to collaborate with other students.

Note the following rules regarding the homework:

- Each homework has a suggested due date. There is no penalty for completing it past this due date and you do not need permission to work on it past this date. It is recommended, however, that you try to complete the homework in the suggested schedule. **The first 6 homework assignments and labs 2-4 will become unavailable after the end of the first exam.**
- The homework consists of a combination of multiple choice questions, numerical answer questions and a few in other formats such as sorting tasks.
- You can use up to 6 attempts to answer numerical questions. There is no penalty for using these attempts. In multiple choice questions, each incorrect answer will reduce the grade you obtain.
- To avoid losing points in your homework make sure you are confident about your answer before submitting. If you are uncertain about a question, it is recommended that you post a question in the discussion board to obtain hints or clarifications. In the case of numerical answers you can try your answer, but if it is still incorrect after a few tries, do not exhaust your opportunities and ask for help before using all your tries.

In addition to the homework for each chapter there is a short assignment to introduce you to the mastering physics system. All chapter assignments have equal weight.

Lab activities

The labs will be graded pass/fail. Each passed lab will count equally towards your final grade. Your lab grade is composed of two parts: report grade and quiz. First, your lab report is graded Pass/Fail. For a pass grade you must complete the lab, and provide evidence of its completion. This evidence of completion has the form of a simple report. The report format is described in each of the lab procedures. It must contain pictures of the lab being completed, analysis of the results, a short conclusion and feedback statements. Failure to provide evidence of completion or incorrectly stating the content of the lab would lead to a failed grade. When a lab report is failed, students can reattempt it, but its point value might be reduced. After the report is submitted, you complete a quiz regarding the activity and the concepts involved.

Exams

There will be two exams, one midterm and one final. Each exam is worth about 150 points towards the final grade. Remember that the final grade is calculated on a 1000 point scale. The exams will contain questions similar to those in the homework, those discussed in the recorded examples, and from the lab activities and quizzes.

The first exam will cover the first two lecture modules and the first lab module. The second will cover the rest of the course material. Note, however, that the nature of the material is such that concepts appearing in the first exam will naturally also appear in the second exam even when they are not the focus of the questions. The exams will contain multiple choice questions and numerical value answer questions. To solve the numerical value problems you are allowed to use a calculator. A set of equations will be provided before the exam. You can print that equation sheet and use it during the exam but no further notes or other materials would be allowed. The equation sheets will be very succinct, and you should know the meaning of the symbols used.

Dates for exams are:

Exam 1. Available from November 5 00:01 to November 11 23:59, Phoenix time.

Exam 2. Available from November 30 00:01 to December 6 23:59, Phoenix time.

The exams will consist of around 30 questions.

You will need to run Honorlock in order to take the exams. If you have trouble you can contact the ASU Help Desk at (480) 965-6500 or 1-855-278-5080.

Grading

Your grade will be determined based on the following grading schema:

The final grades for this course are calculated on the basis of points. It is important that you understand the points associated to each component of the course. Only A, B, C, D, and F grades are possible. There are no +/- grades.

	Grade Percentage	Points Range
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A	850-952	>89.3%
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B	750-849	>78.8%
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C	650-749	>68.2%
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D	550-649	>57.8%
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E	Less than 550	<57.8%
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Submitting Assignments

All assignments, unless otherwise announced, **MUST** be submitted to the designated area of Canvas. Do not submit an assignment via email.

Assignment due dates follow Arizona Standard time. Click the following link to access the **Time Converter**  (<http://www.thetimezoneconverter.com/>) to ensure you account for the difference in Time Zones. Note: Arizona does not observe daylight savings time.

Grading Procedure

Grades reflect your performance on assignments and adherence to deadlines. Grades on assignments will be available within 72 hours of the due date in the Gradebook.

Targets

Each graded component of the course presents different difficulties. Even though the points for each component are similar, they should be approached differently. The homework and labs can be challenging but you should be able to obtain very good grades through study, collaboration, and seeking help when needed. The exams will be more challenging due to the accumulation of material. Exams will not be “curved”.

Note that many students are accustomed to consider their grades as the result of combining letter grades from individual components of the course: get an A in exams and a B in homework and a B in labs leading to some final letter grader (a B?). In this course there are no letter grades associated with partial components and this procedure is discouraged as targets for homework and labs are high.

Late or Missed Assignments

Notify the instructor **BEFORE** an assignment is due if an urgent situation arises and you are unable to submit the assignment on time.

Follow the appropriate University policies to request an [accommodation for religious practices](http://www.asu.edu/aad/manuals/acd/acd304-04.html)  (<http://www.asu.edu/aad/manuals/acd/acd304-04.html>) or to accommodate a missed assignment [due to University-sanctioned activities](http://www.asu.edu/aad/manuals/acd/acd304-02.html)  (<http://www.asu.edu/aad/manuals/acd/acd304-02.html>).

All elements of the course have due dates. Except for exams, there is not direct penalty for completing work late. Some assignments will not be accepted after a long grace period. In addition, lateness and completing work at the last moment have consequences.

While a flexible assignment policy is beneficial to learning, it is critical for your success that the material being tested in the exams be explored before actually taking the test. **Because of this, labs 1-4 and homework assignments 1-6 will only be available until exam 1 closes.**

Technical issues at exam time can sometimes result in students retaking an exam later on. However, taking the exam in the last few hours available, might result in you not qualifying for such an opportunity.

Communicating With the Instructor

Community Forum

This course uses a discussion topic called "Community Forum" for general questions and comments about the course. Prior to posting a question or comment, check the syllabus, announcements, and existing posts to ensure it's not redundant. You are encouraged to respond to the questions of your classmates.

Email questions of a personal nature to your instructor. You can expect a response within 72 hours.

Chat

The Chat tool in Canvas allows students and teachers to interact in real time. Use Chat only for informal course-related conversations unless your instructor informs you otherwise. Chat is not ideal for questions about assignments; instructors are not required to monitor it and conversations may be buried or lost.

Email

ASU email is an **official means of communication** [↗\(http://www.asu.edu/aad/manuals/ssm/ssm107-03.html\)](http://www.asu.edu/aad/manuals/ssm/ssm107-03.html) among students, faculty, and staff. Students are expected to read and act upon email in a timely fashion. Students bear the responsibility of missed messages and should check their ASU-assigned email regularly.

All instructor correspondence will be sent to your ASU email account.

Communication Expectations (Netiquette)

Learning takes place best when a safe environment is established. Students enrolled in this course have a responsibility to support an environment that nurtures individual and group differences and encourages engaged, honest discussions. Doing so will effectively contribute to our own and others intellectual and personal growth and development. We welcome disagreements in the tolerant spirit of academic discourse, but please remember to be respectful of others' viewpoints, whether you agree with them or not. The following are some guidelines to consider when engaging in online discussion and discourse:

- **Be kind and polite.** Be mindful of your tone and do not make fun of another person for any reason.
- **Be respectful.** Being part of an academic community means being exposed to diverse perspectives and viewpoints. Be respectful in all situations and in your critiques. If you wouldn't say it face to face, don't say it online
- **Be wary of sarcasm.** In person, sarcastic comments can be funny and break up a tense situation. Online, it's hard to tell the difference between when someone is being sarcastic and when someone is genuinely being rude.
- **Avoid stereotyping.** Just because someone holds view X, and some people you know of who hold view X also hold view Y, doesn't mean that holding view X means holding view Y.
- **Use proper grammar and spelling.** Typos and basic spelling mistakes will happen, but if it's detracting from your message, it can be difficult to figure out what you mean. Also, you should avoid using all caps as this can imply shouting in the online environment.

ASU Online Course Policies

View the **ASU Online Course Policies** [↗\(https://asuonline-dev.asu.edu/qm-template/CanvasQM/qm-policies.html\)](https://asuonline-dev.asu.edu/qm-template/CanvasQM/qm-policies.html)

Inclusive Environment

Throughout this course, you may be presented with ideas or perspectives that you are unfamiliar or uncomfortable with. We encourage you to critically examine these ideas and take risks by offering your own experiences and perspectives through civil discourse. In return, I will work to foster and create an environment where you feel supported in taking these risks.

When possible, human biases were addressed in the design of this course. If there are aspects of the design, instruction, and/or experiences within this course that result in barriers to your inclusion, please

reach out to me with suggestions on how I can further improve this course for you or for others.

Syllabus Disclaimer

The syllabus is a statement of intent and serves as an implicit agreement between the instructor and the student. Every effort will be made to avoid changing the course schedule but the possibility exists that unforeseen events will make syllabus changes necessary. Remember to check your ASU email and the course site often.

ASU Academic Integrity

Academic honesty is expected of all students in all examinations, papers, laboratory work, academic transactions, and records. Students in this class must adhere to **ASU's academic integrity policy**  (<https://provost.asu.edu/academic-integrity/policy>). Students are responsible for reviewing this policy and understanding each of the areas in which academic dishonesty can occur. All academic integrity violations will be reported to the New College Academic Integrity Office (AIO). The possible sanctions include but are not limited to appropriate grade penalties, course failure (indicated on the transcript as a grade of E), course failure due to academic dishonesty (indicated on the transcript as a grade of XE), loss of registration privileges, disqualification, and dismissal. The AIO maintains records of all violations and has access to academic integrity violations committed in all other ASU college/schools.

Generative AI is Not Permitted

The use of AI tools and techniques is not permitted in this course. Use of generative AI in this course is considered a violation of **ASU's Academic Integrity Policy**  (<https://provost.asu.edu/academic-integrity>) and will result in appropriate sanctions, which include a zero on the assignment, reporting to the New College of Interdisciplinary Arts and Sciences Academic Integrity Officer (AIO), and further as specified by the AIO.

ASU Student Code of Conduct

Students are expected to follow the **ASU Student Code of Conduct**  (<https://eoss.asu.edu/dos/srr/codeofconduct>), especially when communicating with peers, staff, and instructors. Violations of the student code of conduct may result in withdrawal from the class.

Academic Status Reports

This course incorporates an early alert reporting system called Academic Status Reports (ASRs) to give you helpful updates throughout the semester. An ASR will let you know if you are progressing well or if there are concerns related to your class performance. Concerns may be related to missing classes, missing assignments, or the quality of your work. ASR notifications will be sent to your ASU email

address and are visible on My ASU in the My Classes box. The ASR may provide recommended actions, such as meeting with your instructor, TA, or academic advisor. If you receive an ASR, don't ignore it and keep calm (it might be good news).

Read the message, follow the suggested instructions, and don't delay. Information for making an appointment with your academic advisor can be found on My ASU in the Academic Support Team box. Students should view ASRs as confirmation of good work or use them as a catalyst to make changes, seek assistance, and improve in the course.

You can learn more about ASRs on the Academic Status Report Resources page.

<https://students.asu.edu/academic-status-report>  [\(https://students.asu.edu/academic-status-report\)](https://students.asu.edu/academic-status-report)

Assessments

Please be aware that student scores on exams or other graded work may be used to assess program goals of degrees offered by the School of Mathematical and Natural Sciences. This course uses HonorLock technology for all exams. This technology is offered free to students and helps to ensure the academic integrity of this course. Students will need to have a camera, microphone and identification as well as a private space when taking exams-see computer requirements above. Students are expected to take all exams following the ASU academic integrity guidelines.

Attendance/Absence Policies

In addition to the instructor's general policy on absences and missed work, excused absences and conditions for making up work include [Accommodation of Religious Practices](#)  [\(https://www.asu.edu/aad/manuals/acd/acd304-04.html\)](https://www.asu.edu/aad/manuals/acd/acd304-04.html) and Missed Classes Due to University-Sanctioned Activities (ACD 304-02. Students must notify their instructors of these absences as early as possible in the semester.

Community of Care Guidelines

ASU's response to COVID-19 for preserving and protecting every community member's health will continue to be dynamically adjusted to keep our community healthy and well. Please consult the [ASU Coronavirus website](#)  [\(https://eoss.asu.edu/health/announcements/coronavirus\)](https://eoss.asu.edu/health/announcements/coronavirus) and [Coronavirus FAQ](#)  [\(https://eoss.asu.edu/health/announcements/coronavirus/faqs\)](https://eoss.asu.edu/health/announcements/coronavirus/faqs) for up-to-date information on status, current risk, and appropriate response.

Copyright Infringement

All course content and materials are copyrighted materials. Students may not share outside the class, upload to online websites not approved by the instructor, sell, or distribute course content or notes taken during the conduct of the course [see [Academic Affairs Manual policy 304-06: Commercial Note](#)

Taking Services [↗\(https://www.asu.edu/aad/manuals/acd/acd304-06.html\)](https://www.asu.edu/aad/manuals/acd/acd304-06.html) and **Student Code of Conduct policy 5-308 F.14 Prohibited Conduct** [↗\(https://public.azregents.edu/Policy%20Manual/5-308-Student%20Code%20of%20Conduct.pdf\)](https://public.azregents.edu/Policy%20Manual/5-308-Student%20Code%20of%20Conduct.pdf) (page 10) for more information]. This includes lectures, recorded lectures, and lectures administered and recorded using Zoom. Students must refrain from uploading to any course shell, discussion board, or website used by the course instructor or other course forum material that is not the student's original work unless the students first comply with all applicable copyright laws. Faculty members reserve the right to delete materials on the grounds of suspected copyright infringement.

Course/Instructor Evaluation

The course/instructor evaluation for this course will typically be conducted online 7-10 days before the last official day of classes of each semester or summer session. Your response(s) to the course/instructor is anonymous and will not be returned to your instructor until after grades have been submitted. The use of a course/instructor evaluation is an important process that allows our college to (1) help faculty improve their instruction, (2) help administrators evaluate instructional quality, (3) ensure high standards of teaching, and (4) ultimately improve instruction and student learning over time. Completing the evaluation is not required for you to pass this class and will not affect your grade, but your cooperation and participation in this process are critical. About two weeks before the class finishes, watch for an e-mail with "NCIAS Course/Instructor Evaluation" in the subject heading. The e-mail will be sent to your official ASU e-mail address.

Emergencies/Campus Power Outage

In the event of a campus power outage or other event affecting the ability of the University to deliver classes, any decision to cancel classes will be announced using the ASU emergency notification system. For this reason, it is imperative that students register with ASU's emergency notification system **LiveSafe** [↗\(https://cfo.asu.edu/emergency-alert\)](https://cfo.asu.edu/emergency-alert). In cases where a limited number of buildings are affected, students should check the University website and/or call the School office at (602) 543-6050.

Final Exam Make-up Policy

ASU's **Final Exam Schedule** [↗\(https://students.asu.edu/final-exam-schedule\)](https://students.asu.edu/final-exam-schedule) will be strictly followed. Exceptions to the schedule and requests for make-up examinations can be granted only by the Associate Director of the School of Mathematical and Natural Sciences for one of the following reasons: 1) religious conflict; 2) the student has more than three exams scheduled on the same day; 3) two finals are scheduled to occur at the same time. Make-up exams will NOT be given for any of the following reasons: non-refundable airline tickets, vacation plans, work schedules, weddings, family reunions, or other such activities. Students should consult the final exam schedule before making end-of-semester travel plans.

If there is a last-minute personal or medical emergency, the student may receive a grade of Incomplete and make up the final within one calendar month. The student must provide written documentation and be passing the class at the time to receive an incomplete. A signed **[Request for Grade of Incomplete](https://students.asu.edu/forms/incomplete-grade-request)**  (<https://students.asu.edu/forms/incomplete-grade-request>) must be submitted by the student and approved by the student's instructor and the Associate Director of the School of Mathematical and Natural Sciences.

Incomplete

A grade of incomplete will be awarded only if a documented emergency or illness prevents a student doing acceptable work from completing a small percentage of the course requirements at the end of the semester. The guidelines in the current general ASU catalog regarding a grade of incomplete will be strictly followed. A signed **[Request for Grade of Incomplete](https://students.asu.edu/forms/incomplete-grade-request)**  (<https://students.asu.edu/forms/incomplete-grade-request>) must be submitted by the student and approved by the student's instructor and the Associate Director of the School of Mathematical and Natural Sciences. **A grade of incomplete will NOT be awarded unless there is documented evidence of extreme personal or immediate family hardship.** Changes in work hours or other similar personal problems will not be approved as reasons for awarding incompletes. The Associate Director of the School of Mathematical and Natural Sciences must approve any incomplete grade requests.

Grade Grievances

Any student seeking to appeal a grade must follow the following steps. This process does not address academic integrity allegations or faculty misconduct. Student grade appeals must be processed in the regular semester immediately following the issuance of the grade in dispute (by commencement for Fall or Spring semesters), regardless of whether the student is enrolled at the University. There are two stages to the grievance process: the informal process and the formal process. Each process contains a series of steps that must be followed in order. The informal process, outlined below and facilitated by the School of Mathematical and Natural Sciences, must be followed prior to escalation to the formal process:

1. A one-on-one meeting must be scheduled with the instructor. During this meeting, a student must state the reason for questioning that the grade was not given properly/in good faith. The instructor must review the matter, explain the grading procedure, and explain how the grade was determined. The student and the instructor must work toward resolution, and grade grievances should ideally be resolved at this level.
2. If the issue is unresolved, the student can appeal to the School of Math and Natural Sciences Grievances committee (MNSgrievances@asu.edu (<mailto:MNSgrievances@asu.edu>)). The student must provide a written rationale and evidence that the grade was not given appropriately as well as a summary of the instructor's response/the meeting with the instructor.
3. If MNS Grievances policy do not resolve the issue, the student can appeal to the Associate Director and Director of the School of Math and Natural Sciences.

4. If the issue is not resolved at the level of the School of Math and Natural Sciences, the student can confer with the Dean's Representative in the New College of Interdisciplinary Arts and Sciences (Executive Director of Academic Services and Strategic Initiatives) who will review the case and explain the formal process to the student.

Policy against Threatening Behavior

In the classroom and out, students are required to conduct themselves in a manner that promotes an environment that is safe and conducive to learning and conducting other university-related business. All incidents and allegations of violent or threatening conduct by an ASU student will be reported to the ASU Police Department (ASU PD) and the Office of the Dean of Students. Such incidents will be dealt with in accordance with the policies and procedures described in **Section 104-02 of the Student Services Manual** [↗\(https://www.asu.edu/aad/manuals/ssm/ssm104-02.html\)](https://www.asu.edu/aad/manuals/ssm/ssm104-02.html).

Potentially Offensive Content

If you find any of the content in your class offensive, please bring your concerns to the instructor immediately. If raising the issue with the instructor is problematic, these concerns should be brought to the attention of the Director and Associate Director of the School of Mathematical and Natural Sciences.

Reasonable Accommodations for Students with Disabilities

Student Accessibility and Inclusive Learning Services (SAILS) [↗\(https://eoss.asu.edu/accessibility\)](https://eoss.asu.edu/accessibility) provide information and services to students with any documented disability who are attending ASU. Individualized program strategies and recommendations are available for each student as well as current information regarding community resources. Students also may have access to specialized equipment and supportive services and should contact the instructor for accommodations necessary for course completion.

Respectful Communications

As a beacon for critical thought and the advancement of knowledge, ASU values dissenting opinions. Acknowledging that someone else's opinion matters as much as our own is the first step to creating a respectful dialogue. However, we must also distinguish between opinion, fact, and policy. Valuing and respecting those opinions that are different from our own does not mandate acquiescence or violation of policy. We expect all written, e-mail, verbal, and otherwise communications to be conducted with a respectful tone and tenor, and in compliance with established protocols and the **ASU Code of Conduct** [↗\(https://eoss.asu.edu/dos/srr/codeofconduct\)](https://eoss.asu.edu/dos/srr/codeofconduct).

Title IX

It is a federal law that no person be excluded on the basis of sex from participation in, be denied benefits of, or be subjected to discrimination under any education program or activity. Both Title IX and university policy make clear that sexual violence and harassment based on sex is prohibited. An individual who believes they have been subjected to sexual violence or harassed on the basis of sex can seek support, including counseling and academic support, from the University. If you or someone you know has been harassed on the basis of sex or sexually assaulted, you can find information and resources at [ASU's website for Sexual Violence Awareness, Prevention, and Response](https://sexualviolenceprevention.asu.edu/faqs) [↗](https://sexualviolenceprevention.asu.edu/faqs) [\(https://sexualviolenceprevention.asu.edu/faqs\)](https://sexualviolenceprevention.asu.edu/faqs). As mandated reporters, faculty are obligated to report any information of which they become aware regarding alleged acts of sexual discrimination, including sexual violence and dating violence. [ASU Counseling Services](https://eoss.asu.edu/counseling) [↗](https://eoss.asu.edu/counseling) [\(https://eoss.asu.edu/counseling\)](https://eoss.asu.edu/counseling) are available if you wish to discuss any concerns confidentially and privately.

Withdrawals

Specifically, students should be aware that non-attendance will NOT automatically result in being dropped from the course. Therefore, if a student does not attend class during the first week or for any extended period of time during the semester, they should not presume that they are no longer registered. It is the student's responsibility to be aware of their registration status. Any withdrawal transaction must be completed by the deadline date in accordance to the appropriate session at the registrar's office. If not, you will still be officially enrolled and receive a grade based on your completed work. For additional information about ASU's withdrawal policy and the possible consequences of withdrawing from a class, contact [Registration Services](https://students.asu.edu/registration) [↗](https://students.asu.edu/registration) [\(https://students.asu.edu/registration\)](https://students.asu.edu/registration) or your academic counselor.

[ASU's Full Academic Calendar](https://registrar.asu.edu/academic-calendar#summer2024) [↗](https://registrar.asu.edu/academic-calendar#summer2024) [\(https://registrar.asu.edu/academic-calendar#summer2024\)](https://registrar.asu.edu/academic-calendar#summer2024)

*As part of a complete session withdrawal, a student must withdraw from all classes in that session. Beginning the first day of classes, undergraduate students are required to work with a Student Retention Coordinator to facilitate the withdrawal process. Please refer to the [ASU Registrar's webpage How to Drop, Add, and Withdrawal](https://students.asu.edu/drop-add#comp%20wd) [↗](https://students.asu.edu/drop-add#comp%20wd) [\(https://students.asu.edu/drop-add#comp%20wd\)](https://students.asu.edu/drop-add#comp%20wd).

Course Summary:

Date	Details	Due
Fri Oct 18, 2024	 Introduction to MasteringPhysics for Conceptual Physics Spring (https://asu.instructure.com/courses/202513/assignments/5616657)	due by 11:59pm

Date	Details	Due
Fri Oct 25, 2024	 Module 0: Syllabus Quiz (https://asu.instructure.com/courses/202513/assignments/5604548)	due by 11:59pm
	 HW_01 Chapter 1 (https://asu.instructure.com/courses/202513/assignments/5616645)	due by 11:59pm
	 HW_02 Chapter 2 (https://asu.instructure.com/courses/202513/assignments/5616658)	due by 11:59pm
	 Lab 2: Forces (https://asu.instructure.com/courses/202513/assignments/5604578)	due by 11:59pm
	 Quiz Lab 2: Forces (https://asu.instructure.com/courses/202513/assignments/5604554)	due by 11:59pm
Fri Nov 1, 2024	 HW_03 Chapter 3 (https://asu.instructure.com/courses/202513/assignments/5616646)	due by 11:59pm
	 HW_04 Chapter 4 (https://asu.instructure.com/courses/202513/assignments/5616647)	due by 11:59pm
	 Lab 3: Free Fall (https://asu.instructure.com/courses/202513/assignments/5604579)	due by 11:59pm
	 Quiz Lab 3: Free Fall (https://asu.instructure.com/courses/202513/assignments/5604555)	due by 11:59pm
	 HW_05 Chapter 7 (https://asu.instructure.com/courses/202513/assignments/5616655)	due by 11:59pm
Fri Nov 8, 2024	 HW_06 Chapter 9 (https://asu.instructure.com/courses/202513/assignments/5616659)	due by 11:59pm
	 Lab 4: Newton's Laws (https://asu.instructure.com/courses/202513/assignments/5604580)	due by 11:59pm
	 Quiz Lab 4: Newton's Laws (https://asu.instructure.com/courses/202513/assignments/5604552)	due by 11:59pm
Mon Nov 11, 2024	 Exam 1 (https://asu.instructure.com/courses/202513/assignments/5604547)	due by 11:59pm

Date	Details	Due
Fri Nov 15, 2024	 HW_07 Chapter 15 (https://asu.instructure.com/courses/202513/assignments/5616649)	due by 11:59pm
	 HW_08 Chapter 16 (https://asu.instructure.com/courses/202513/assignments/5616654)	due by 11:59pm
	 Lab 5: Energy (https://asu.instructure.com/courses/202513/assignments/5604581)	due by 11:59pm
	 Quiz Lab 5: Energy (https://asu.instructure.com/courses/202513/assignments/5604551)	due by 11:59pm
Fri Nov 22, 2024	 HW_09 Chapter 22 (https://asu.instructure.com/courses/202513/assignments/5616648)	due by 11:59pm
	 HW_10 Chapter 24 (https://asu.instructure.com/courses/202513/assignments/5616650)	due by 11:59pm
	 Lab 6: Electrostatics (https://asu.instructure.com/courses/202513/assignments/5604582)	due by 11:59pm
	 Quiz Lab 6: Electricity (https://asu.instructure.com/courses/202513/assignments/5604553)	due by 11:59pm
Fri Nov 29, 2024	 HW_11 Chapter 26 (https://asu.instructure.com/courses/202513/assignments/5616656)	due by 11:59pm
	 HW_12 Chapter 31 (https://asu.instructure.com/courses/202513/assignments/5616653)	due by 11:59pm
	 Lab 7: Greenhouse effect (https://asu.instructure.com/courses/202513/assignments/5604583)	due by 11:59pm
	 Quiz Lab 7: Greenhouse (https://asu.instructure.com/courses/202513/assignments/5604549)	due by 11:59pm
Fri Dec 6, 2024	 Exam 2 (https://asu.instructure.com/courses/202513/assignments/5604546)	due by 11:59pm
	 HW_13 Chapter 32 (https://asu.instructure.com/courses/202513/assignments/5616651)	due by 11:59pm

Date	Details	Due
	 <u>HW_14 Chapter 35</u> (https://asu.instructure.com/courses/202513/assignments/5616652)	due by 11:59pm
	 <u>Lab 8: Rutherford's experiment</u> (https://asu.instructure.com/courses/202513/assignments/5604584)	due by 11:59pm
	 <u>Quiz Lab 8: Rutherford</u> (https://asu.instructure.com/courses/202513/assignments/5604550)	due by 11:59pm
	 <u>Lab 1: Measure the Sun (Extra Credit)</u> (https://asu.instructure.com/courses/202513/assignments/5604577)	
	 <u>Module 1: Discussion</u> (https://asu.instructure.com/courses/202513/assignments/5604556)	
	 <u>Module 2: Discussion</u> (https://asu.instructure.com/courses/202513/assignments/5604557)	
	 <u>Module 3: Discussion</u> (https://asu.instructure.com/courses/202513/assignments/5604558)	
	 <u>Module 4: Discussion</u> (https://asu.instructure.com/courses/202513/assignments/5604559)	
	 <u>Module 5: Discussion</u> (https://asu.instructure.com/courses/202513/assignments/5604560)	
	 <u>Module 6: Discussion</u> (https://asu.instructure.com/courses/202513/assignments/5604561)	