

PHYS 2080: General Physics II

Class Meeting: TTH 12:30 pm to 1:45 pm Section 001 (CRN 80198) Daniel 100B

Zoom location of class: <https://clemsontech.zoom.us/j/4169084222>

Office Hours: by appointment via zoom (M, T, W, Th) or in person (T/TH only).

9:15 – 10:45 M, 11-12:15 TTh, 1:30-3 W

Teaching Assistant: Shannon Bonomi (sbonomi@g.clemson.edu)

Schedule an appointment here: <https://calendly.com/clemsonamy>



Amy Pope, PhD
College of Science
306 Kinard Lab
amyj@clemson.edu864-656-4349

Course Description:

PHYS 2080 General Physics II 3 (3) Continuation of PHYS 2070. Covers such topics as electricity, magnetism, electromagnetic waves, optics, and modern physics. Credit for a degree will be given for only one of PHYS 2080 or 2210. Prerequisites or Concurrent Enrollment: MTHS 1020 or MTHS 1040 or MTHS 1050. PHYS 2070. PHYS 2080 meets the general education student learning outcome of natural sciences with laboratory by demonstrating the process of scientific reasoning through experimental activity and critical comparison of their results to those predicted by accepted natural science principles.

Course Learning Outcomes:

1. The student will demonstrate the ability to think critically and to use appropriate concepts to analyze qualitatively problems or situations involving physics.
2. The student will demonstrate the ability to use appropriate mathematical techniques and concepts to obtain quantitative solutions to problems in physics.
3. The student will develop the ability to read, evaluate, and interpret numerical and general scientific information and apply physical principles to real-world problems then communicate effectively the reasoning behind the solution.

Students may vary in their competency levels on these abilities. You can expect to acquire these abilities only if you honor all course policies, attend class regularly, complete all assigned work in good faith and on time, and meet all other course expectations of you as a student.

It is important to develop critical thinking ability rather than mere memorization of facts. This is a vital skill set for your successful career in various fields. To develop these skills you will work on in-class activities and homework assignments that involve defining and analyzing problems related to physics, identifying and evaluating options, inferring likely outcomes and probable consequences, then evaluating and explaining the reasons.

I have high expectations but I will provide scaffolded assistance so you can be successful. Students are expected to review materials daily, practice many problems and seek out assistance in a timely manner.

Course Modality:

This is an in-person course. Course attendance is expected. Students with extenuating circumstances regarding course attendance should reach out to the instructor for alternate arrangements. If the course needs to move to an online modality, we hold synchronously classes using zoom. Material covered in class will be posted.

I am excited to embark on a journey through physics with you this semester. I love teaching and engaging with students.

I received my PhD in Physics from Clemson University in 2002 and I have been teaching ever since. I love watching as students grasp the mathematical beauty of the world we live in!

I am happily married with four wonderful children. We foster children as well, so my house is always bustling with activity. I love to swim, kayak and paddle board. When it gets too cold for that, I love to hike.

I am excited that we will be able to complete this course together. Feel free to contact me with any questions.

Attendance Policy:

The academic resources of Clemson University are provided for your intellectual growth and development, and class attendance is critical to your education. Therefore, you should attend scheduled courses regularly to attain your academic goals. In the event of an emergency or illness, contact me, preferably before a class or an exam takes place. For an absence to be considered an excused absence, use the Notification of Absences form in Canvas to directly communicate with the instructor. If you are not sure where that is, see this [help sheet](#).

For any student asked to quarantine/isolate because of exposure to the virus, inform me through the Notification of Absences form, so that I know you will be online and can support your learning in the class. You will also need to discuss with me any make-up work if you are absent. We should stay in touch! Since this is an in-person course, you are expected to return to in-person attendance once cleared by the University or once your illness/emergency is past.

Please be aware that notification of illness / emergency / quarantine must be received within one week of the event, and you may be asked to provide documentation. Documentation may include a notice from the university regarding quarantine, or confirmation that you had a doctor's appointment (whether in person or virtually).

Students are expected to wait for 10 minutes past the start of the class if the instructor is not present before the assumption is made that class is cancelled.

Clemson Thinks2:

This course is designed to be part of the Clemson Thinks2 (CT2) program. "Critical thinking is reasoned and reflective judgment applied to solving problems or making decisions about what to believe or what to do. Critical thinking gives reasoned consideration to defining and analyzing problems, identifying and evaluating options, inferring likely outcomes and probable consequences, and explaining the reasons, evidence, methods and standards used in making those analyses, inferences and evaluations. Critical thinking is skeptical without being cynical, evaluative without being judgmental, and purposefully focused on following reasons and evidence wherever they may lead." <http://www.insightassessment.com/FAQ/FAQs-General-Critical-Thinking/What-is-Critical-Thinking-CT2>

Critical Thinking Methods of Teaching:

Critical thinking requires students to be active learners who engage in the material. Students need to be making decisions about what to believe or how to evaluate information. Critical thinking gives reasoned consideration to all aspects of a problem.

A variety of assignments (reflections, homework and exams) in this course can be utilized as artifacts to demonstrate your refinement of critical thinking skills over the term.

Available Assistance:

In addition to the instructor's availability outside of regular class time, there are other opportunities for students to get help on course materials.

Tutoring Information: This course is supported by the Academic Success Center tutoring program. The ASC tutors have completed and done well in this course, and they understand the concepts well enough to help you work through questions you have. For more information visit <https://www.clemson.edu/asc/courses/tutoring/index.html>.

Additional Course Support: If you discover that you would like additional support to meet your success goals for this course, contact the Academic Success Center using their "Request for Course Assistance" form (<http://www.clemson.edu/asc/courses/index.html>).

I am available for office hours to answer any questions that you may have about the course or the course content. Schedule an appointment here: <https://calendly.com/clemsonamy>. Please see me privately if you have special needs or accommodations required in this course.

Prepare to do yourBEST

Academic Continuity Plan for this Class:

Clemson has developed an Academic Continuity Plan for academic operations. Should university administration officially determine that the physical classroom facility is not available to conduct classes, class will be conducted in a virtual (online) form. The university issues official disruption notifications through email, website, text notification and Social Media. When notified, use one of the following links to navigate to Clemson Canvas where you will find important information about how we will conduct class:

- Primary access link: <http://www.clemson.edu/canvas>
- Secondary access link, if needed: <https://clemson.instructure.com/>
- You can also use the Canvas Student App. [Visit the downloads page](#) for this app.

Course activities will occur through the Canvas course.

Inclement Weather:

Any exam that was scheduled at the time of a class cancellation due to inclement weather will be given at the next class meeting or moved online.

The instructor will contact you with further information. Any assignments due at the time of a class cancellation due to inclement weather will be due at the next class meeting unless the instructor communicates differently. Any extension or postponement of assignments or exams must be granted by the instructor via email or Canvas within 24 hours of the weather-related cancellation.

Online Conduct:

Appropriate online academic conduct means maintaining a safe learning environment based on mutual respect and civility. All participants in Clemson courses are expected to behave professionally by adhering to these standards of conduct:

- Never transmit or promote content known to be illegal.
- Respect other people's privacy as well as your own.
- Forgive other people's mistakes.
- Never use harassing, threatening, embarrassing, or abusive language or actions.

Online communication that fails to meet these standards of conduct will be removed from the course. Repeated misconduct may result in being blocked from online discussions, receiving a grade penalty, or being dismissed from the course. Such misconduct in the online environment may also be reported to officials for appropriate action in accordance with University policy. If you ever encounter inappropriate content in our course, please contact me, the instructor, with your concerns.

Privacy Policy:

This course is designed with your privacy in mind. If, however, you feel that an assignment or technology tool undermines your right to privacy, please contact the instructor immediately. We will work together to determine an alternative assignment that will help you achieve the course learning outcomes.

- Preview lecture notes and skim through the text for the material that will be covered prior to viewing it. Education research shows that we must be exposed to material three times before it begins to sink in.
- Blank lecture notes can be printed from Canvas prior to lecture. Additionally, these notes may be annotated on your tablet. If you prefer to take notes by hand that is fine.
- Engage fully in class by listening or taking notes. While playing a game or surfing the web may be fun, it does not assist in your quest for physics knowledge.
- Watch each day's lecture with your equation sheet and calculator ready to solve problems...and use them.
- Even though there is no grade associated with the worksheets, it is highly recommended that you work through them BEFORE looking at the solutions. The key to this class is PRACTICE.
- Really DO the homework. Rely on your brain not the internet.
- Study often and in small spurts. The concepts in this course build on one another. Studying little by little will overall reduce your study time and result in improved grades.
- You are permitted an equation sheet on tests. You will have to study diligently to get good grades on the exams.
- The online text is not directly linked to what we cover in the class.
- Ask questions (ASC, office hours, friends) freely.

Course Content:

Topic 1: Temperature and Heat

Zeroth law of Thermodynamics, Temperature Scales, Thermal expansion, Heat and Mechanical Work, Conduction, Convection and Radiation

Topic 2: Phases and Phase Changes

Ideal Gas, Kinetic Theory, Latent Heat, Phase Changes

Topic 3: Laws of Thermodynamics

Zeroth, First, Second and Third Laws of Thermodynamics, Thermal processes, Heat Engines

Topic 4: Electric Charges, Forces and Fields

Electric Charge, Insulators and Conductors, Coulomb's Law, Electric Field Lines, Flux and Gauss's Law

Topic 5: Electric Potential And Electric Potential Energy

Electric Potential And Electric Potential Energy, Energy Conservation, Point Charges, Equipotential surfaces and electric field, capacitors and dielectrics

Topic 6: Electric Current and DC circuits

Electric Current, Resistance, Ohm's Law, Energy and power in circuits, resistors and capacitors in series and parallel, Kirchhoff's Laws

Topic 7: Magnetism

Magnetic field, magnetic force on a moving charge, motion of charged particles in a magnetic field, force on a current carrying loop, magnetic torque, ampere's law, solenoids

Topic 8: Magnetic Flux and Faraday's Law of Induction

Induced EMF, magnetic flux, Faraday's Law of Induction, Lenz's Law, generators and motors, transformers

Topic 9: Electromagnetic waves

Properties of EM waves, production of EM waves, EM spectrum, energy and momentum of EM waves, polarization

Topic 10: Geometric Optics

Reflection of Light, forming images with a plane mirror, spherical mirrors, ray tracing and mirror equation, refraction of light

Topic 11: Physical Optics: Interference and Diffraction

Superposition and interference, Young's two slit experiment, interference in reflected waves, diffraction, diffraction gratings

Topic 12: Relativity

Postulates of Special Relativity, relativity of time, time dilation, relativity of length and length contraction, relativistic addition of vectors, relativistic momentum, relativistic energy

Topic 13: Quantum, Atomic and Nuclear Physics

Blackbody Radiation and Quantized Energy, photoelectric Effect, Compton effect, wave-particle duality, Heisenberg Uncertainty Principle,

Topic 14: Quantum, Atomic and Nuclear Physics

Atomic models, Atomic Hydrogen Spectrum, Bohr's Model, Quantum Mechanical Hydrogen Atom, Atomic Radiation, Radioactivity, Half-Life and Radioactive Dating, Nuclear Fission and Fusion, Elementary Particles

Reflection:

Reflection assignments are 10% of your course grade. Assignments are due at 11:59 pm on the day indicated in the schedule. These assignments focus on the metacognitive nature of learning. These assignments are designed to assist the student in learning how to learn.

Exams:

There will be five exams during the semester and one final exam. Each of the six exams is worth 10% of your final course grade with the lowest of the 6 exam grades being dropped which makes the five regular exam and the final exam worth a total of 50% of your total grade. If you miss an exam, you must notify your instructor within 24 hours of the missed exam and a makeup exam will be scheduled.

All exams will be taken using the Respondus Lockdown browser with Webcam. This browser must be downloaded (newer versions now available) through the [Clemson University CCIT software download page](#). It is the student's responsibility to ensure that the browser is working prior to taking each exam.

The exams are closed notes/text. You may use a calculator and the course equation sheet during the tests. You will also want several blank sheets of scratch paper. You may not use any internet-based devices during the exam. The test will be administered through Canvas. You can take the exam in the classroom (will need to notify the instructor if you wish to use this option) or find a quiet place to take the exam. All audio and video will be recorded during the exam.

Make-up exam policy: If the scheduled exams are missed due to technical difficulties or other official excuses, the instructor must be informed promptly (within 24 hours of the actual exam) and the make-up exam should be scheduled and completed within a week of the actual exam. The make-up exams will need to be approved by the instructor based on the relevant documents/ explanation provided. Makeup exams not requested within the week following the actual exam will be given a zero.

Homework:

Homework assignments are 20% of your course grade. Homework is due at 11:59 pm on the day indicated in the schedule. For late submissions, there will be a penalty of 1% points deduction/ hour. Late homework can be submitted for up to 50% credit until **12/03/2021** at 11:59 pm. One homework grade is dropped. All due dates are recorded on the calendar at the end of the syllabus.

The cost for Expert TA is \$32.50 per semester per student. Expert TA offers students the option of a 14-day free trial. Any work done during the trial, including grades received, is saved and available after the license is purchased.

Clickers:

Clicker/participation grades are 20% of your final class grade. **Each clicker/participation grade is worth the same amount of credit (regardless of the number of raw points).** The lowest 4 clicker grades are dropped. Each question is graded as 80% credit for participation and 20% credit for correctness.

Clicker Makeup:

The 4 lowest (or missed) clicker grades will be dropped. If you miss class due to university excused absences or illnesses and notify the instructor through the Notification of Absences form in Canvas, you will have an opportunity to make up clicker grades. To take advantage of this, you must complete the Makeup Clicker assignment under the Assignments tab in Canvas.

Final Examination:

Your final exam is: Monday, Dec 6th from 3 pm to 5:30 pm

You will have 2.5 hours to take the exam. There are 33 questions on the exam which is cumulative. While there are no exemptions in this course, you may consider using the final exam as your dropped exam.

Extra Credit:

There are several extra credit opportunities listed under modules with their due dates shown in the course schedule. These are the ONLY extra points offered in the course. There will be NO ADDITIONAL POINTS awarded at the end of the semester. There will be no rounding of grades. If you feel you might be borderline you will want to complete these assignments. No late assignments will be accepted.

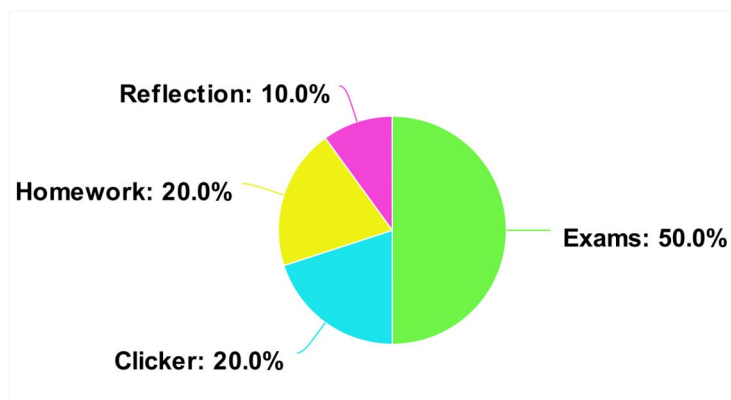
Determination of Final Grade:

Letter grades are calculated by dividing the total number of points earned by ten. Extra Credit adds for a total of 1% of your final course grade. No further changes to grades will be made after the last day of class. Points available are as follows:

5 test & final	highest 5 grades at 10% = 50%
Clicker	20%
Homework	20%
Reflection	10%
Extra Credit	1%
<hr/> Total	<hr/> 101%

The following scale will be used:

- A: 90% or higher
- B: 80% to 89.99%
- C: 70% to 79.99%
- D: 60% to 69.99%
- F: 0-59.99%



Required Materials:

The following materials are required for successful participation in the course:

- Expert TA account which can be purchased through Canvas for **\$32.50** per semester per student. Expert TA will be used for homework, class preparation quizzes and in class engagement. You may also purchase a code at the on-campus bookstore at a slightly higher rate.
- Download [OpenStax Urone and Hinrichs College Physics](#) (ISBN-10: 1-947172-01-8) **\$0.00**

- [Respondus](#) must be installed through the Clemson University offered download.
- Calculator (Any scientific calculator is fine.)
- [Adobe Reader \(free\)](#) or [Adobe Creative Cloud Acrobat \(free through Clemson\)](#)
- iClicker Reef which is **\$15.99** per semester per student.
- Ancillary information (texts, videos, audio, slides, notes) is provided in my Canvas course.

iClicker Cloud:

I will be using iClicker Cloud this semester to conduct quizzes in class. This will help me understand what you know and give everyone a chance to participate in class. This will also give you feedback on how well you are comprehending course concepts, help you master the challenging material in this class, and allow you to review material after class. You are required to bring a device to participate in clicker sessions during class. I will be allowing the use of iClicker Cloud app on a smartphone, tablet or laptop.

It is your responsibility to properly register your iClicker Reef device in a timely fashion. We will be using them for credit on the first Tuesday of class. It is also your responsibility to regularly check your iClicker grades for any discrepancies and bring them to my attention within one week of the assignment that is in question.

Once you download the iclicker app (via the App Store or Google Play, or by visiting iclicker.com), **you must connect your Reef account within our learning management system**. Instructions to do so are located in the addendum at the end of the syllabus. It is also recommended that you enter your Clemson email (without the g ex. amyj@clemson.edu) accurately in the Student ID field of your iClicker profile.

Upon signing up with iClicker, you will have a 2-week free-trial period. After that point, you will need to purchase an iClicker subscription (\$15.99 for 6 months) if you want to participate in iClicker sessions with your mobile device, tablet, or laptop. [Click here to learn about your options for purchasing a Reef subscription.](#)

iClicker support is found by visiting iclicker.com/support at any time. If you continue to experience issues, please contact iClicker support via phone (866.209.5698) or email (support@iclicker.com). Live support is available Monday - Thursday from 9AM - 11PM, ET and Friday from 9AM - 9PM, ET.

Signature Assignment:

The signature lab assignment is the 'Boiling Beets Lab'. Students follow experimental procedures, collect data, and analyze data to compare their results to accepted physical principles. For the lab, students collect calorimeter data to calculate the specific heat of an unknown material. The material is determined by comparing the determined specific heat to accepted values. Also, students experimentally determine the latent heat of water and compare it to the accepted value based on physical principles.

General Policies and Procedures:

Students are expected to adhere to all policies and procedure outlined by Clemson University, [see University Policies](#)

Make Sure you Have These



Expert TA purchased through Canvas
\$32.50



Download OpenStax
Urone and Hinrichs
College Physics
FREE



[iClicker REEF](#)
\$15.99

Academic Integrity:

As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a "high seminary of learning." Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.

All infractions of academic dishonesty by undergraduates must be reported to Undergraduate Studies for resolution through that office. In cases of plagiarism instructors may use the Plagiarism Resolution Form.

See the [Undergraduate Academic Integrity Policy](#) website for additional information and [the current catalogue](#) for the policy. For graduate students, [see the current graduate student handbook](#) for all policies.

ACADEMIC GRIEVANCES

Undergraduate students are advised to contact the Ombuds' Office prior to filing an academic grievance. If the undergraduate academic ombudsman agrees that a grievable issue has occurred, students can contact Undergraduate Studies (656-3022) for assistance filing official paperwork within 30 days of the semester following the awarding of a disputed grade.

Graduate students follow the [Graduate Student Handbook](#) (per the catalogue, "grievances must be filed with the Graduate School within 60 days of the alleged act.")

Engagement activities fall under the provisions of our campus's academic honesty policy. Students must not engage in academic dishonesty while participating in in-class engagement activities. *This includes but is not limited to answering polling questions while not physically in class, looking at other students' devices while answering live questions, requesting for answers to assignment problems in chat apps or other web-based platforms, or using more than one ExpertTA account at a time.*

TEST QUESTIONS ARE NOT TO BE DISCUSSED UNTIL THE TEST GRADES ARE RELEASED TO YOUR CLASS. Breach of this policy will constitute academic dishonesty.

Title IX:

The Clemson University Title IX statement: Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran's status, genetic information or protected activity in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972. This [Title IX policy](#) is located on the Campus Life website. Ms. Alesia Smith is the Clemson University Title IX Coordinator, and the Executive Director of Equity Compliance. Her office is located at 223 Brackett Hall, 864.656.0620. Remember, email is not a fully secured method of communication and should not be used to discuss Title IX issues.

Email Communication:

Because of privacy regulations, University faculty and staff may email students only through Clemson email. Therefore, you must use your Clemson email account in this course for all email communications. Check your Clemson account at least five times per week for important messages. You will want to have your canvas announcement forwarded to your email or check your Canvas messages with a frequency of 5 times per week. Please make sure that your emails are professional in nature.

Safe Campus Environment:

Emergency procedures have been posted in all buildings and on all elevators. Students should be reminded to review these procedures for their own safety. All students and employees should be familiar with guidelines from the Clemson Police Department. [Visit here for information about safety.](#)

Clemson University is committed to providing a safe campus environment for students, faculty, staff, and visitors. As members of the community, we encourage you to take the following actions to be better prepared in case of an emergency:

1. Ensure you are signed up for [emergency alerts](#)
2. Download the [Rave Guardian app](#) to your phone (<https://www.clemson.edu/cusafety/cupd/rave-guardian/>)
3. [prepare yourself](#) for an active threat (<http://www.clemson.edu/cusafety/EmergencyManagement/>)

Student Disability Services:

Student Disability Services coordinates the provision of accommodations for students with disabilities in compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990.

Reasonable and specific accommodations are developed with each student based on current documentation from an appropriate licensed professional. All accommodations are individualized, flexible, and confidential based on the nature of the disability and the academic environment. Housing accommodations for a disability or medical condition are also coordinated through this office.

Visit the [Student Disability Services](#) website for location, contact information, as well as official policies and procedures. To learn more information or request accommodations contact Student Disability Services (SDS) at sds-1@clemson.edu or [864.656.6848](tel:864.656.6848) or visit SDS's website: <http://www.clemson.edu/campus-life/campus-services/sds/about.html>. It is expected that the student will test in the proctor center.

Academic Support Services:

Students may access a variety of academic support services to support your learning in the online classroom. Here are links to services available:

[Academic Success Center](http://www.clemson.edu/asc/staff.html) <http://www.clemson.edu/asc/staff.html>

[The Writing Center](http://www.clemson.edu/centers-institutes/writing/) <http://www.clemson.edu/centers-institutes/writing/>

[Clemson Online Library Guides](http://libguides.clemson.edu/distanced) <http://libguides.clemson.edu/distanced>

[Online Library Resources](http://www.clemson.edu/library/) <http://www.clemson.edu/library/>

[CCIT \(Tech Support\)](http://www.clemson.edu/ccit/help_support/) http://www.clemson.edu/ccit/help_support/ or [CCIT \(Tech Support\) email: ithelp@clemson.edu](mailto:ithelp@clemson.edu)

[Academic Advising](http://www.clemson.edu/academics/advising/index.html) <http://www.clemson.edu/academics/advising/index.html>

[Registrar](http://www.registrar.clemson.edu/html/indexStudents.htm) <http://www.registrar.clemson.edu/html/indexStudents.htm>

Copyright Notice:

Materials from published sources (books, articles, and even videos) are protected under copyright. When used for educational purposes, they are intended for use only by students enrolled in a particular course and only for instructional activities associated with the course. They may not be retained in another medium or disseminated further as described in the provisions of the Teach Act. Students should refer to the Clemson Libguide [Use of Copyrighted Materials](#) and the "[Fair Use Guidelines](#)" [policy](#) on the Clemson University website for additional information.

Commitment to Diversity:

Clemson University aspires to create a diverse community that welcomes people of different races, cultures, ages, genders, sexual orientation, religions, socioeconomic levels, political perspectives, abilities, opinions, values and experiences.

Phys 2080 Course Schedule:

Due dates are fixed as per the schedule. On rare instances I will grant more time on an assignment if we have not yet covered the material but please consider this a fixed document of due dates.

August 16	17	18	19 Topic 1	20 HW 1 due
23	24 Clicker 1 -Topic 1	25 Reflection 1	26 Clicker 2 -Topic 2	27 HW 2 due
30	31 Test 1 Topics 1, 2	September 1 Reflection 2	2 Clicker 3 -Topic 3	3 HW 3 due
6 EC THERMOMETER	7 Clicker 4 -Topic 4	8 Reflection 3	9 Clicker 5 -Topic 4/5	10 HW 4 due
13	14 Clicker 6 -Topic 5	15 Reflection 4	16 Clicker 7 -Topic 6	17 HW 5 & 6 due
20 EC TOPIC	21 Test 2 Topics 3, 4, 5, 6	22 Reflection 5	23 Clicker 8 -Topic 7	24
27 EC BEND	28 Clicker 9 -Topic 7	29 Reflection 6	30 Clicker 10 -Topic8	October 1 HW 7 due
4	5 Clicker 11-Topic 8	6 Reflection 7	7 Clicker 12 -Topic 9	8 HW 8 due
11 FALL BREAK	12 FALL BREAK	13 Reflection 8	14 Clicker 13 -Topic 9	15 HW 9 due
18 EC BATTERY	19 Test 3 Topics 7, 8, 9	20 Reflection 9	21 Clicker 14 -Topic 10	22
25	26 Clicker 15 -Topic10	27 Reflection 10	28 Clicker 16 -Topic 10/11	29 HW 10 due
November 1 EC TOPIC	2 Clicker 17 -Topic 11	3 Reflection 11	4 Clicker 18 -Topic 11	5 HW 11 due
8	9 Test 4 Topics 10,11	10 Reflection 12	11 Clicker 19 -Topic 12	12
15 EC SPEED OF LIGHT	16 Clicker 20 -Topic 12	17 Reflection 13	18 Clicker 21 -Topic 13	19 HW 12 due
22 EC TOPIC	23 CLASS Clicker 22 -Topic 14	24 Thanksgiving Break	25 Thanksgiving Break	26 Thanksgiving Break
29 EC COURSE EVAL	30 Test 5 Topics 12, 13, 14	1 Reflection 14	2 Clicker 23 –REVIEW	3 HW 13 & 14 due

Aug 31: Last day to drop a class or withdraw from the University without a W grade

Oct 26: Last day to drop a class or withdraw from the University without final grades

Dec 3: All homework grades finalized at 11:59 pm

Final exam: Monday, Dec 6th from 3 pm to 5:30 pm

iClicker Addendum:

I will be using iClicker to make our class time more engaging. This will help me understand what you know, give everyone a chance to participate, and increase how much you learn in class. This will also provide you with feedback on how well you are comprehending course concepts, help you master challenging concepts, and allow you to review material after class.

Participating in my iClicker sessions will be counted towards your final grade. Clickers will be worth **20%** of your final grade.

You are required to participate with the iClicker student app on a smartphone, tablet or laptop. It is your responsibility to follow the steps below to properly get added to my iClicker course in a timely fashion. It is also your responsibility to regularly check your iClicker records for any discrepancies and bring them to my attention within 48 hours.

I have set up an iClicker integration with our campus Learning Management System, which will pull your name directly into my iClicker roster.

1. If you have an existing iClicker student account that uses our official university email address and/or Student ID, you will automatically be added to my iClicker course.

- If the iClicker system does not find a matching iClicker student account, you will receive an email from iClicker Support with instructions to [update your existing account's profile](#) or [create a new account](#).
- Please note that this email may appear in your Spam or Junk folders.

2. If you receive an email prompting you to create or update your iClicker student account, make sure you include the correct account information.

- If you already have an iClicker account, do **not** create a new account. Instead, log in and edit your existing account's profile to avoid confusion and potential loss of points due to multiple accounts.
- Ensure that your iClicker profile includes the following information:
 - Institution email address
 - CUID

3. Check your Courses list in iClicker.

- If you do not see my course in your Courses list, use the + sign to search for my course in iClicker.
 - In the "Find Your Institution" field, enter Clemson University.
 - In the "Find Your Course" field, enter PHYS 2070.
 - Double-check the details you see to make sure you select this course:
 - PHYS 2080
 - Pope
 - Fall 2021
 - 12:30 pm T/Th
 - Select "Add This Course" and it will be added to the main Courses screen of iClicker.

4. Purchase an iClicker subscription or access code to participate in class.

- Upon signing up with iClicker, you will have a two-week free-trial period for using the app to participate in class activities. **Before the free trial ends**, you need to [purchase an iClicker subscription or obtain an access code](#) to continue participating in class with iClicker on your mobile device, tablet, or laptop. To [redeem an access code](#), you must visit the **Subscriptions** section of the [iClicker student web app](#) (**NOT** the mobile app). iClicker will let you know when your free trial is ending. If your free trial ends without completing this step, you will be unable to participate in class activities until you purchase a subscription or enter an access code.

5. Set up the device(s) you'll use to participate in our class sessions.

- You can download the iClicker student mobile app via the App Store or Google Play, or you can use the iClicker web app by signing in as a student at [iclicker.com](#).

6. Now the fun part! Participate in my iClicker class activities.

- When it's time for class, make sure you have selected my course from the main screen of iClicker.
 - Select the **Join** button that appears on your screen, then answer each question I ask in iClicker.
 - For short answer, numeric, and target questions, make sure you select **Send**.
- I have turned on a GPS location requirement for iClicker in our class. If you are not physically in class when you try to join with iClicker, you will not be counted as present and will not be able to respond to my polling/quizzing questions.
 - You will need to allow the device you are using to reveal your location in order to successfully check in.
 - If you have any issues with your device's location settings, refer to the [Attendance Geolocation Troubleshooting Guide](#).

7. Review your work and study after class in iClicker.

- You can review your grades and performance in iClicker.

Academic Integrity Information

iClicker activities fall under the provisions of our campus academic honesty policy. Students must not engage in academic dishonesty while participating in iClicker activities. This includes but is not limited to:

- Checking in while not physically in class
- Having another student check you into class
- Answering polling questions while not physically in class
- Looking at other students' devices while answering live questions
- Using more than one iClicker remote or account at a time

Any student found to be in violation of these rules will be found in violation of Clemson's Academic Integrity Policy.

Need help with the iClicker student app or your remote?

- If you are having trouble with your iClicker access code, check out this [guide to access code errors](#).
- If you are having issues connecting to the iClicker student app, check out these [iClicker connectivity tips](#).
- If you are having issues seeing your iClicker points, check out this [troubleshooting guide](#).
- Find answers to many of your questions and contact the iClicker Tech Support Team by visiting iclicker.com/support at any time.