



Phys 1402.01E: College Physics II

COURSE SYLLABUS: Fall 2026

Class Location: Mon, Wed, and Fri 9:00 AM - 9:50 AM, McFarland Science Building 114

INSTRUCTOR INFORMATION

Instructor: Austin Vent, Adjunct Professor

Preferred Pronouns: He/him/his

Office Location: Room 105, McFarland Science Building

Student Hours:

Wed 10:00-11:00 in person in room 105

Tues/Thurs 1:00-2:00 via zoom

By Appointment (avent@leomail.tamuc.edu)

University Email Address: avent@leomail.tamuc.edu

Preferred Form of Communication: **email**

Communication Response Time: Before the end of the following business day

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Textbooks Required

- **Physics** by Cutnell and Johnson, *11th edition*.
 - For this section you do NOT need a subscription to Wiley Plus.
 - Any book format (paperback, looseleaf, etext, direct download into your hippocampus) is acceptable.
 - ISBN for the looseleaf version is ISBN 978-1-119-39187-6.
 - Note this is an old edition of the book.
- PHYS 1402 Lab manual, available at the campus bookstore

Software Required

- None

The syllabus/schedule are subject to change.

Required Materials

- Scientific calculator with trigonometric functions. Note: you won't be allowed to use your cell phone / tablet / computer apps during exams. You do not need graphing functions, but they're perfectly allowed if you have a graphing calculator already. If you need a scientific calculator:
 - The bookstore has two fairly inexpensive ones: TI-30XIIS and TI-30Xa. The first one is a bit nicer because it has a two-line screen, but this isn't necessary.
 - Walmart (online at least) has the TI-30XIIS even cheaper than the bookstore.

Course Description

*This is a four semester course that meets three days a week for lectures and once a week for a two hour laboratory section once a week (**Note:** Labs will start the week of August 31). This is an algebra based physics course covering topics of electric charges, fields, electric potential, capacitance, resistance, circuits, and magnets.*

Prerequisites:

MATH 141 Min Grade C or MATH 1314 Min Grade C or MATH 142 Min Grade C or
MATH 2312 Min Grade C or MATH 176 Min Grade C or MATH 1325 Min Grade C or
MATH 2413 Min Grade C or MATH 191 Min Grade C

Student Learning Outcomes:

1. Students will be able to calculate electric forces on charge.
2. Students will be able to calculate electric fields due to charge.
3. Students will be able to calculate electric potential and potential energy.
4. Students will be able to analyze simple and complex electric circuits.
5. Students will be able to calculate magnetic interaction on electrical charge.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

You should have knowledge of basic algebra, including the standard form of the quadratic equation ($y = ax^2 + bx + c$) and how to find its roots. You should remember some basics about trigonometry, especially the Pythagorean Theorem and SOHCAHTOA.

You will need to be able to access myLEO Online, aka D2L, the campus learning management system. You should also be able to read PDF documents. You should be able to create either Microsoft Word documents (.docx) or plain text files. You must be familiar with Internet usage and safe browsing. You need to be able to watch YouTube videos on a computer.

The syllabus/schedule are subject to change.

Instructional Methods

This class is being taught entirely face-to-face with a separate, required lab section. Lectures and/or readings will be used to introduce topics. Students are encouraged to ask questions during lecture. However, a fair amount of class time will be focused on including conceptual work and problem solving.

Student Responsibilities or Tips for Success in the Course

Students are expected to attend lectures and labs regularly, pay attention during class and participate with labs, and complete all assignments and exams. Students must be aware of all deadlines and seek clarification whenever directions are unclear. We will need to move quickly to cover all the necessary material for the course, therefore it is imperative to stay up to date on your assignments.

GRADING

Grades will be based on four components:

- 3 midterm exams: 30%
- Final exam: 20%
- Weekly practice assignments: 15%
- End-of-chapter homework: 15%
- Labs: 25%

Grading scale: Final Percent

- A: >90%
- B: 80% to 90%
- C: 70% to 80%
- D: 60% to 70%
- F: <60%

To encourage constant improvement, for the daily practice assignments, exams, and end-of-chapter homework assignments I employ a reward system for streaks of scores that improve on each other. I do this by replacing the scores of all the assessments in the streak by the highest score in the streak for all of them. For example, if your scores on assignments are (out of 100)

56, 66, 85, 80, 90

They will be replaced at the end of the semester by

85, 85, 85, 90, 90

And similarly for exams.

Exams: There will be three midterms and a final, with each midterm exam being weighted equally (10 percent each). The final will be cumulative and accounts for 20% of your grade. See the course outline for predicted exam dates (subject to change!).

The syllabus/schedule are subject to change.

Make-up exams will only be allowed for excused absences and notification prior to the exam. See course policies below for details on excused absences. Students will be able to see their grades through D2L.

Weekly Practice Assignment: The only way to get better at a skill is lots of practice, whether we are talking about football, tuba playing, cake decorating, or solving physics problems. A few questions and problems will be assigned at the end of every week and due at the start of class the following week. These will be graded based on you making a solid attempt at completing them, not on you getting the correct answer.

End-of-chapter homework assignments: These homeworks will be a series of problems assigned at the beginning of each chapter and will be due at the completion of the chapter. The due date for each homework will be given when the homework set is assigned. ***Late homework is penalized 10% per day late. After 7 days, you will receive a zero on the assignment.***

The following are considered cheating and will not be tolerated: Directly copying text from a website or other printed source, obtaining copies of solutions to homework questions (whether from past students or other sources), directly copying another student's work, etc. See the section on "Academic Integrity" below for full details.

Labs: Lab assignments will be completed in groups during labs. Most labs will be due the same day, but if extra time is needed they will be due at the beginning of the next lab period. There will be no makeup labs. Your lowest lab grade will be dropped.

ASSESSMENTS

Please refer to the grading section.

COURSE OUTLINE / CALENDAR

Content schedule

Chapter 18 Electric Forces and Fields (Aug. 24 - Sep. 4)

Chapter 19 Electric Potential Energy and the Electric Potential (Sep 9 - Sep 21)

FIRST TEST

Chapter 20 Electric Circuits (Sep 23 - Oct 7)

Chapter 21 Magnetic Forces and Magnetic Fields (Oct 9 - Oct 21)

SECOND TEST

Chapter 22 Electromagnetic Induction (Oct 26 - Nov 6)

Chapter 23 Alternating Current Circuits (Nov 9 - Nov 20)

THIRD TEST

Review week for final exam (Nov 30 - Dec 4)

The syllabus/schedule are subject to change.

Exam dates (Tentative)

- Exam 1 Friday, September 25th
- Exam 2 Friday, October 23th
- Exam 3 Friday, November 20th

Final Exam: Wednesday, December 9th from 8:00 am -10:00 am

How To Get Started**myLEO Online Access Information**

This course uses myLEO Online, the new learning management system at A&M-Commerce. All materials, assignments, and resources will be made available through this system. To access this course, go to: <http://myleoonline.tamuc.edu>. Log in with your myLEO account and password. Then click on the link to [Spring 2023 College Physics I](#) to get to our course.

How This Course Is Organized

This course is organized by units. Some units will last just one week, but some units will cover multiple weeks. Some units cover one chapter in the text; some cover multiple chapters. You should listen in class and check the course page on MyLeo Online often to see what activities and assignments are coming due.

What Should You Do First?

After attending class and reading this syllabus, you should proceed to the course page on MyLeo Online and familiarize yourself with the resources. Next, order the course materials if you haven't yet. Finally, begin completing the activities and assignments under Unit 1. Due dates are specified on MyLeo Online.

TECHNOLOGY REQUIREMENTS**LMS**

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

ACCESS AND NAVIGATION

The syllabus/schedule are subject to change.

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

Interaction with Instructor Statement

Email:

I can be reached by email at avent@leomail.tamuc.edu. Please put "Physics" in your email subject header. It may take me up to 24 hours to send you a response (48 hours on the weekend or holidays). If you don't hear back from me in that time, please send another email or give me a call.

Student Hours:

Student hours are times Professor Vent has set aside for one-on-one meetings with students. You may use this time to ask detailed questions about your work, to ask for help on an assignment, to talk about grades, to discuss your health, or to talk about physics, astronomy, and careers in general. You can also stop by student hours just to say hello and help Professor Vent get to know your face. This is YOUR time, so please feel free to use it.

The link to the Zoom meeting is: <https://us05web.zoom.us/jc/83216783844>

If you want to talk but cannot come during scheduled student hours, please email me to schedule an appointment.

You may feel free to stop by my office any time my door is open, but if you do not have an appointment and if it is not student hours, please understand I may often not be free

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to talk at that instant.

STUDENT RESPONSIBILITIES FOR COURSE

CWID and Password

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@etamu.edu.

Technology-Related Issues

Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a ETAMU campus open computer lab, etc.

TECHNOLOGY REQUIREMENTS AND SUPPORT

Minimal Technical Skills Needed

Students will need reliable computer and internet access for this course. Students must be able to effectively use myLeo email, myLeo Online D2L, and Microsoft Office.

Learning Management System (LMS) – D2L

All course sections offered by East Texas A&M University have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are the technical requirements:

- View the [Learning Management System Requirements Webpage](#).
- Learn more on the [LMS Browser Support Webpage](#).

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found on the [Brightspace Support Webpage](#).

COMMUNICATION AND SUPPORT

Interaction with Instructor Statement

If you have any questions or are having difficulties with the course material, please contact your instructor. Correspondence will always be through university email (your “myLeo” mail) and announcements in myLeo online (D2L). You will not RECEIVE email through D2L, so be sure to check your ETAMU email for communication. Students are encouraged to check university email daily.

Include the Following in Emails with Instructor:

- Course name and subject in the subject line
- Salutation (Good afternoon, Dr. Jackson)
- Proper email etiquette (no “text” emails – use proper grammar and punctuation)
- Student name and CWID after the body of the email (possibly add to student signature on email)

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

Student Conduct

The syllabus/schedule are subject to change.

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The [Code of Student Conduct](#) is described in detail online in the [Student Guidebook](#). Students should also consult the [Rules of Netiquette Webpage](#) for more information regarding how to interact with students in an online forum.

ETAMU Attendance

For more information about the attendance policy, please view the [Attendance Webpage](#) and the [Class Attendance Policy](#)

Academic Integrity

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty University Procedure 13.99.99.R0.03](#)

[Undergraduate Student Academic Dishonesty Form](#)

[Graduate Student Academic Dishonesty University Procedure 13.99.99.R0.10](#)

[Graduate Student Academic Dishonesty Form](#)

Use of Artificial Intelligence

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources

Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

East Texas A&M University
Velma K. Waters Library Rm 162
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
Email: studentdisabilityservices@etamu.edu
Website: [Office of Student Disability Services](#)

Nondiscrimination Notice

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information, or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

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Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and ETAMU Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M University campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

East Texas A&M Supports Students' Mental Health – Counseling Services

The Counseling Center at East Texas A&M University, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit

www.tamuc.edu/counsel

Mental Health and Well-Being

The university aims to provide students with essential knowledge and tools to understand and support mental health. As part of our commitment to your well-being, we offer access to Telus Health, a service available 24/7/365 via chat, phone, or webinar. Scan the QR code to download the app and explore the resources available to you for guidance and support whenever you need it.



As an Institutional Member of the National Association of Schools of Music, East Texas State A&M University supports the Association's commitment to student health and wellness. The following web address provides links to information for resources related to physical and mental well-being, as well as assists in offering preventative measures that students can take to avoid serious and/or chronic conditions: [Musician Health and Safety - East Texas A&M University](#)

Department and Accrediting Agency Statement:

School of Music Mission Statement:

The School of Music at East Texas A&M University promotes excellence in music through the rigorous study of music history, literature, theory, composition, pedagogy, and the preparation of music performance in applied study and ensembles to meet the highest standards of aesthetic expression.

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