PHYS 2426.01W, University Physics II

COURSE SYLLABUS: Summer 2025

INSTRUCTOR INFORMATION

Instructor: Dr. Blake Head
Office Location: STC 340
Office Hours:TBA, will be hosted via Zoom
University Email Address: thomas.head@tamuc.edu
Preferred Form of Communication:E-mail
Communication Response Time: I will do my best to respond to your e-mails as soon as possible, definitely within 24 hours.

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required: *Introductory Physics: Building Models to Describe our World* – Ryan Martin, Emma Neary, Joshua Rinaldo, Olivia Woodman

This is an Open Source Textbook (free!). It has been adapted for this course, and will be available on D2L.

Access to D2L. This is the university's learning management system, accessed through MyLeo. This will serve as the central hub for the course. All deadlines and announcements will appear here. All links to videos and other material will appear here. ***If in doubt, go to the 2426 course shell in D2L and it will tell you what you are supposed to be doing.***

Course Description

Physics 2426 is the second semester of a calculus-based physics sequence. University Physics II introduces electrical and magnetic phenomena in nature, including the

concepts of electrical charges, electric and magnetic fields, the application of Gauss' Law, electric potential, conductors and insulators, currents, basic circuits, and induction.

Student Learning Outcomes

- Students will be able to demonstrate the following skills when analyzing situations involving electrostatic fields and potentials and their sources, currents, voltage, capacitance, power, basic electrical circuits, magnetic fields and their sources, and induction:
- Students will be able to conduct qualitative analysis of electromagnetism problems which demonstrates conceptual understanding as measured by performance in visualizing problems through diagrams, estimating answers, assessing and justifying answers, analyzing graphs and clear, written explanations.
- Students will be able to perform quantitative calculations in situations involving electric and magnetic fields, and demonstrate knowledge of the relevant basic units, vector addition, and application of basic calculus. Students will be able to assess answers to questions for plausibility.
- Students will be able to use simple laboratory demonstrations and computer simulations to explain the basic properties of electric and magnetic fields, and electrical circuits.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

Students should be able to use D2L (myLeo Online), view videos on YouTube, use a calculator, use Excel and/or a graphing calculator or app, convert work to a pdf, take screenshots, use a variety of online communication methods such as Zoom, Discord, D2L, and email.

Perusall

In the online format of this course, we will be using "Perusall" in order to facilitate communal learning. You must make an account at www.perusall.com and use my course code HEAD-B3948.

Instructional Methods

This course is an asynchronous online class. This means there is no formal meeting time or lecture component. You will determine your own pace through the course material. The positive side to this is that it offers a lot of freedom for how quickly you'd

like to move through material. The downside is that it offers a lot of freedom. You must manage your time well!

The course content is separated into two main categories: Group Work and Individual Work. Each week, I will make available a certain number of group assignments that must be completed by Sunday of that week. The number of assignments may fluctuate slightly each week, but you should expect to be completing 3-4 Group assignments and 3-4 Individual assignments per week.

Group assignments will typically be completed via Perusall. This website allows you to be grouped with other students and collectively work an assignment by commenting on certain questions and on each other's work. In this way I'm hoping to preserve some of the flipped classroom aspects of the regular semester course. This is where the majority of the learning will happen in this class. The instructor will join your conservations to clarify things or ask leading questions.

Individual assignments are assignments to be completed on you own. These will generally be a single, short question that covers one main concept. During the normal semester, these are due at the start of every class, so these are frequent!

Student Responsibilities or Tips for Success in the Course

Since you make your own schedule in this course, it is important that you set aside a fixed time every day to ensure your assignments are being completed. Do your best to complete at least 1 assignment per day and don't save them all until the last minute!

GRADING

GRADING

We will be utilizing a Standards Based grading system in this course. In simple terms, your performance in this class will be assessed based on a set of standards that I'm hoping for you to achieve throughout this course. This is counter to more traditional grading systems, where each assignment is given a single numerical score. Instead, I will provide feedback on each of your assignments. Using this feedback, you will have the opportunity to revise your work and resubmit. Remember, college is about **learning**, so as long as you are making the effort to learn, that is what is most important.

The *syllabus/schedule are subject to change.*

Your grade will be entirely be determined by *Individual Assignments* and *Group Assignments. Individual Assignments* completed independently, and as the name implies. *Group Assignments* will be posted to Perusall, where you and your group will work together to complete the assigned activity. You MUST turn your work in on time. I don't accept late work outside of extenuating circumstances! It is okay, however, if your first attempt simply says something like, "I think this has something to do with X, but I feel really lost." That will allow you to submit revisions. <u>There must be evidence that you made a legitimate attempt.</u>

On each *Individual Assignment*, you will receive 1 of 3 overall marks:

Label	What it means
Accepted	This work is completed for the most part correctly. Any errors are fairly minor. You are done!
Revise	You have attempted the work, but there are some things you need to work on learning better. You should revise your assignment.
No credit	You either submitted nothing, accidentally submitted the wrong assignment, or submitted work that is barely started.

You should expect most of your assignments first attempts to be marked *Revise*. This is not a bad thing and you should not feel discouraged! In a real job (even mine!) things nearly always need to be revised once or twice. My goal is to have you learn this stuff, so I will hold you to a high standard to support that learning process.

If you work comes back *Revise*, that means you have one week to revise it. You have unlimited revision attempts, but you always need to complete your next revision **within 1 week** of when I last sent you feedback. Any submissions after this week will not be accepted and your grade will be locked in.

- You must complete your revisions **individually** because these are how I see how much you can do on your own.
- You **<u>must</u>** include in your revision what you went back and changed / fixed, and provide some explanation of why it is important.
- You can meet with me during office hours (Zoom) to discuss feedback as well as e-mail me.

Each assignment comes with associated learning goals. These are where grade calculations come from, and this is where you will get more concrete feedback on how much you have learned and what you still need to work on.

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For each learning goal/standard associated with an individual assignment, you will be given one of three marks:

Label	What it means
Exceptional - 3	You've mastered this outcome! You have demonstrated good working knowledge of a concept and have shown that you truly understand what is going on.
Satisfactory - 2.4	You've done a good job with this outcome, there are still a small thing or two you could still improve, but overall a good job.
Minimum - 1.8	You've gotten the basics down, but you might still be a little ways away from having an excellent grasp on something. You also might have missed something important.
Standard not met - 0	Either I'm having trouble understanding what you've said / done, or you are quite far off the mark. This often can point to something important missed in class or a fundamental misunderstanding of a topic.

These learning goals are where grade numbers will actually come from. We have a spreadsheet (linked in our D2L course page) that will do the calculations for you. Ideally, you will be filling this out as we go along in class, that way you always know how you are doing in class.

Exceptional correspond to a 3, Satisfactory to a 2, Minimum to a 1, and Standard not Met to a 0. We'll average together all of your work for a standard together, so you'll have a number for each standard, and we'll average all the standard numbers together to get an overall number that indicates what letter grade you would get. Letter grades correspond to the following ranges:

A 2.7-3.0
B 2.4-2.7
C 2.1-2.4
D 1.8-2.1
F 0-1.8

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ATTENDANCE POLICY

This is an asynchronous course, and thus has no attendance policy.

TECHNOLOGY REQUIREMENTS

LMS

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 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

Zoom Video Conferencing Tool
https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom_Account.aspx?source=universalmenu

Perusall

Use the link below to create an account and use the course code HEAD-B3948 to join the class.

https://www.perusall.com/

ACCESS AND NAVIGATION

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.

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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

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific 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.

University Specific Procedures

Student Conduct

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 in the Student Guidebook.
http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: https://www.britannica.com/topic/netiquette

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TAMUC Attendance

For more information about the attendance policy please visit the Attendance webpage and Procedure 13.99.99.R0.01.
http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf

Academic Integrity

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

Undergraduate Academic Dishonesty 13.99.99.R0.03
Undergraduate Student Academic Dishonesty Form

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf

Graduate Student Academic Dishonesty Form

http://www.tamuc.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf

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@tamuc.edu
Website: Office of Student Disability Resources and Services

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http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/

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.

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 A&M-Commerce 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.

Web url: http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf

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

East Texas A&M Supports Students' Mental Health

The Counseling Center at A&M-Commerce, 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**

AI Use in Courses

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.
13.99.99.R0.03 Undergraduate Academic Dishonesty
3.99.99.R0.10 Graduate Student Academic Dishonesty