

The University of Texas at Tyler
Syllabus
Fall 2023
University Physics II
Physics 2326
Section 1

Instructor: Dr. Randy Back

Class Room: RBN 4032

Class Time: MWF 9:05-10

Office: RBN 4047

Phone: (903) 565-5797

Email: rback@uttyler.edu

Office Hours: MWF 10-11, T 1-1:30. You should feel free to stop by my office any time or make an appointment. If I am available I will be happy to help you.

Course Topics: This course will introduce the student to some basic concepts and principles in physics. Problem solving will be a major component of this class. Major topics covered will include Waves, Light, Electric Fields and Magnetic Fields.

Text: *Physics for Scientists and Engineers*, by Knight 5th edition with access code to masteringphysics ISBN: 9780137319497 or ISBN-13: 9780137319541 *Physics for Scientists and Engineers: A Strategic Approach with Modern Physics -- Modified Mastering Physics with Pearson eText*

Prerequisite: Math 2414 is required. This class will be in-person, attendance is expected.

Homework: Homework will generally be assigned after each class period on

<https://mlm.pearson.com/northamerica/masteringphysics/>.

The course ID is back55527. It will be due the day of the following class period. You must spend significant time on the homework to really understand this material.

Tests: There will be four in-class tests during the semester. The tentative dates for the tests are (Sept.13, Oct. 6, Oct 30 and Dec. 1) Calculators will not be allowed during the test.

Final Exam: The final will cover material from the entire semester. Your grade on the final can replace your lowest test grade.

Make-up: No late work will be accepted. If you have an excused absence you must make up the work before the due date.

Grading: 10 % Homework

75 % 4 Tests

15 % Final

Your final letter grade will be given based on the following percentages: A (90%-100%), B (80%-89%), C (70%-79%), D (60%-69%), F (<60%).

Disclaimer: All the above is subject to change due to circumstances beyond our control.

Students Rights and Responsibilities

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link:

<http://www.uttyler.edu/wellness/rightsresponsibilities.php>

Grade Replacement/Forgiveness and Census Date Policies

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date is the deadline for many forms and enrollment actions that students need to be aware of. These include:

☑ Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.

☑ Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)

☑ Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)

☑ Being reinstated or re-enrolled in classes after being dropped for non-payment

☑ Completing the process for tuition exemptions or waivers through Financial Aid

State-Mandated Course Drop Policy

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

Disability Services

In accordance with federal law, a student requesting accommodation must provide documentation of his/her disability to the Disability Services counselor. If you have a disability, including a learning disability, for which you request an accommodation, please contact the Disability Services office in UC 3150, or call (903) 566-7079.

Student Absence due to Religious Observance

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement:

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Campus Carry

"We respect the right and privacy of students who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>."

UT Tyler is a Tobacco-Free University

Cell Phone Policy: Cell phones and smart watches/electronic devices must be put away during exams. If they are observed out in a visually accessible place (i.e. between legs, on the floor, etc.), it will be assumed that they are being used to cheat and your exam will be taken, you will receive a zero score (0 points) for the exam, and you will be referred to the Office of Judicial Affairs.

It is important to take the necessary precautions to ensure a healthy and successful year. UT Tyler continues to urge you to protect yourselves against the flu, COVID and any new threats that may be developing. Be diligent about preventive measures such as washing hands, covering sneezes/coughs, social distancing and vaccinations, which have proven to be successful in slowing the spread of viruses. Encourage those who don't feel well to stay home, and if they show symptoms, ask them to get tested for the flu or COVID. Self-isolation is important to reduce exposure ([CDC quarantine/isolation guidelines](#)). Please work with your faculty members to maintain coursework and please consult [existing campus resources](#) for support.

A more complete description of University policies is listed at the following website:

<http://www.uttyler.edu/academicaffairs/syllabuspolicies.pdf>

Census Date is September 1st .

Last Day to withdraw from a course is October 30th .

The final exam will be on December 4th

Course Objectives/Student Learning Outcomes

1. **Critical Thinking:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
2. **Empirical and Quantitative Skills:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

General Course Information

1. You are responsible for all the material covered in class.
2. Physics builds on itself. It is very important that you do not fall behind on the material.
3. You should read and understand the material in the book.
4. It is very important that you spend time outside class reading the material and doing the homework. The only way you will understand the material is to spend time working the problems.
5. I strongly encourage you to ask questions in class and come by my office any time you need help.
6. Regular classroom attendance is expected.
7. If use of electronic devices for non-classroom activities becomes a distraction you will be asked to leave.

Material for Test 1 (Aug 21-Sept.11)

Chapter 16 Traveling waves sections 1, 2, 3, 9
Chapter 17 Superposition sections 1-6
Chapter 33 Wave optics sections 1-2
Chapter 34 Ray optics sections 1-5, 7

Test 1 September 13

Material for Test 2 (Sept.15-Oct. 4)

Chapter 22 Electric charges and forces all sections
Chapter 23 Electric field sections 1-6
Chapter 24 Gauss's Law all sections

Test 2 October 6

Material for Test 3 (Oct. 9-Oct 27)

Chapter 25 The electric potential all sections
Chapter 26 Potential and Field sections 1-6

Test 3 October 30

Material for Test 4 (Nov. 1- Nov. 29)

Chapter 29 The magnetic field all sections
Chapter 30 Electromagnetic induction sections 1-8

Test 4 December 1

Final Exam December 4 8-10 am