

**The University of Texas at Tyler**  
**Syllabus**  
**Fall 2023**  
**Physics 2126 Section 1**

**Instructor:** Dr. Randy Back

**Classroom:** RBN 4032

**Class Time:** F 1:00-4:00

**Email:** rback@uttyler.edu

**Office:** RBN 4047

**Phone:** (903) 565-5797

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

**Course Topics:** This course is designed to give students hands on experience that will compliment the principles and concepts covered in lecture. Major topics covered will include Oscillations, Waves, Electricity and Magnetism, Circuits, Light and Optics.

**Text:** *Physics for Scientists and Engineers*, by Knight 5<sup>th</sup> edition.

**Prerequisite:** PHYS 2125

**Labs:** Each week you will attend lab and do one experiment. The write-up for the experiment will be due the following week.

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

**Lab Project:** There will be a lab project at the end of the semester.

**Grading:** Each lab report will be worth a maximum of 30 points. The lab project is worth a maximum of 60 points. At the end of the semester all of your points will be totaled and divided by the maximum possible. A(90%-100%), B(80%-89%), C(70%-79%), D(60%-69%),F(<60%).

**Disclaimer:** All of 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 1<sup>st</sup>.**

**Last Day to withdraw from a course is October 30<sup>th</sup>.**

#### **Course Objectives/Student Learning Outcomes**

- **Communication:** to include effective development, interpretation and expression of ideas through written, oral and visual communication.
- **Teamwork:** to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

August 25 Lab 1 Diameter versus Circumference  
September 1 Lab 2 Speed of Sound  
September 8 Lab 3 Reflection and Refraction  
September 15 Lab 4 Image formation  
September 22 Lab 5 Adding Resistors  
September 29 Lab 6 Ohm's Law  
October 6 Lab 7 Kirchhoff's Rules  
October 13 Lab 8 Capacitor Lab  
October 20 Lab 9 RC Lab  
October 27 Lab 10 RC Circuits  
November 3 Lab 11 Right hand rules  
November 10 Lab 12 Faraday's Law  
November 17 Lab Project Due  
November 24- Thanksgiving  
December 1 Make-up Lab