



Syllabus: University Physics Lab

Course Number: Phys 2125

Semester & Year: Fall 2026

Instructor Information

Name: Calvin Ainsworth

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Office Hours: M 10am-2pm, T 10am-11am, W 10am-2pm, TR 10am-11am

Textbook Information

Labs will be provided to students free of charge.

Student Learning Outcomes for the Course

1. Demonstrate techniques to set up and perform experiments, collect data from those experiments, and formulate conclusions from an experiment.
2. Record experimental work completely and accurately in laboratory notebooks, and communicate experimental results clearly in written reports.
3. Determine the components of linear motion (displacement, velocity, and acceleration), and especially motion under conditions of constant acceleration.
4. Apply Newton's laws to physical problems including gravity.
5. Solve problems using principles of energy.
6. Describe the components of a wave and relate those components to mechanical vibrations, sound, and decibel level.
7. Use principles of impulse and linear momentum to solve problems.
8. Solve problems in rotational kinematics and dynamics, including the determination of the location of the center of mass and center of rotation for rigid bodies in motion.
9. Solve problems involving rotational and linear motion.
10. Demonstrate an understanding of equilibrium, including the different types of equilibrium.
11. Discuss simple harmonic motion and its application to quantitative problems or qualitative questions.
12. Solve problems using the principles of heat and thermodynamics.
13. Solve basic fluid mechanics problems.

Student Requirements for Completion of the Course

Lab Experiment

Lab Report

Student Assessment (For Specifics, see grade sheet)

You have the following possibilities for earning points:

Lab Reports

1000 points

Grading Scale

Grade	
A	900-1000
B	800-899
C	700-799
D	600-699
F	599-below

Withdraw Policy

The student is responsible for officially withdrawing from the course. Failure to do so may result in an **F** or **WF** letter grade being recorded on the student transcript.

- **W:** The student officially withdraws from the course. To officially drop the course contact **Enrollment Management** at **903.823.3012** before the **last day to drop**. This letter grade does not affect the GPA.
- **F:** Assigned to the student who completes the course but earns a final average of an F for the course. This letter grade affects the GPA.
- **WF:** Assigned to the student who stops attending or participating in the course, does not officially withdraw from the course, and fails to meet the course requirements. This letter grade affects the GPA.

Make-up Policy

Only certain work can be made up and only if the student has a very good excuse for not doing the work. Tests may not be made up.

Assignments

Any late work if accepted will have 20% of that grade deducted for each day late up to 4 days late. After 4 days, the paper will receive minimum credit.

Cell Phones

All cell phones must be turned off and placed out of sight and off your body. Violations may result in your being asked to leave the class and counted absent.

Classroom Behavior

A classroom is a place where everyone is expected to respect the desire to learn by students. All students are expected to behave in an adult, nondisruptive manner. Outbursts, cursing, excessive talking, or other behavior that is disruptive may result in the student being asked to leave the classroom.

Course Correspondence

Any course correspondence will be through TC student email. It is the student's responsibility to check his/ her TC email regularly for any communication related to the course.

*Being dropped from the course could affect your financial aid.

Academic Integrity Statement

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Proven violations of this nature will result in the student being dropped from the class with an "F".

This policy applies campus wide, including TC Testing Center, as well as off-campus classroom or lab sites, including dual credit campuses. This information can be found in the Student Handbook at <https://texarkanacollege.edu>.

Disability Act Statement:

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Tonya Blase at 903.823.3283, or go by the Recruitment, Advisement, and Retention Department located in the Administration building for personal assistance.

If you have an accommodation letter from their office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations.

Financial Aid:

Attention! Dropping this class may affect your funding in a negative way! You could owe money to the college and/or federal government. Please check with the Financial Aid office before making a decision.