

The University of Texas at Tyler Syllabus
College Physics I Lab
Physics 1101 all
Fall 2026

COURSE MEETING TIMES

Section	Time	Room	Instructor
001	Monday 1:00-4:00pm	RBN 4034	Dr. Kai Zhang
002	Tuesday 1:30-4:30pm	RBN 4034	Dr. Kai Zhang
003	Thursday 1:30-4:30pm	RBN 4034	Dr. Kai Zhang
004	Wednesday 1:00-4:00pm	RBN 4034	Dr. Kai Zhang
005	Friday 1:00-4:00 pm	RBN 4034	Dr. Randy Back

INSTRUCTOR CONTACT INFORMATION

Instructor: Dr. Kai Zhang (Section.0.001-0.004)

Email: kzhang@uttyler.edu

Office: RBS 3007A

Phone: (903) 5666276

Office Hours: 12 noon - 1:30pm Tue; 11:30 am - 1 pm Wed ; 12 noon - 1:30pm Thur;

Instructor: Dr. Randy Back

Email: rback@uttyler.edu

Office: RBN 4047

Phone: 903-565-5797

Office Hours: MTWRF 10-11 AM

Course Topics: This course is designed to give students hands on experience that will complement the principles and concepts covered in lecture. Major topics covered will include Kinematics, Dynamics, Energy and Momentum.

Text: Same as the textbook used in the lecture course *College Physics*

Labs: You will do one experiment each lab period and the write-up 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: A lab project will be due 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 your points will be totaled and divided by the maximum possible ($30 \times 11 + 60 = 390$).

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.

Tentative Lab Schedule

Week 1 Aug. 24 – Aug. 28 Lab 1- Measurement and Error

Week 2 Aug. 31 – Sep. 4 Lab 2- Motion

Week 3 No Lab

Week 4 Sep. 14 – Sep. 18 Lab 3- Runaway Cart

Week 5 Sep. 21 – Sep. 25 Lab 4-Vector Decomposition

Week 6 Sep. 28 – Oct. 2 Lab 5- Friction

Week 7 Oct. 5 – Oct. 9 Lab 6- Force Tutorial

Week 8 Oct. 12 – Oct. 16 Lab 7- Equilibrium

Week 9 Oct. 19 – Oct. 23 Lab 8- Static Equilibrium

Week 10 Oct. 26 – Oct. 30 Lab 9- Conservation of Momentum

Week 11 Nov. 2 – Nov. 6 Lab 10- Conservation of Energy

Week 12 Nov. 9 – Nov. 13 Lab 11- Work and Energy Tutorial

Week 13 Nov. 16 – Nov. 20 Lab Final Project-Trebuchet baseball launcher

Week 14 Thanksgiving break

Week 15 Nov. 30 – Dec. 4 Make-up Lab

Learning Outcomes:

- Apply mechanics principles of motion, force, equilibrium, momentum, and energy through hands-on experiments.
- Analyze experimental data and uncertainty to test mechanics models and evaluate theoretical predictions.
- Integrate mechanics concepts in the final project through design, testing, and quantitative analysis.
- Laboratory competence, (Setting up and using a range of equipment to obtain experimental data and critically analyzing this data) The students will analyze their data to show that concepts and equations discussed in lecture are supported by experimental data. For example, they will do a lab to show that energy and momentum are in fact conserved.
- Communication Skills (includes effective development, interpretation and expression of ideas through written, oral and visual communication). The student will communicate an understanding of the physics principles discussed in class by verbally explaining their solution to a physics problem.
- Teamwork (includes the ability to consider different points of view and to work effectively with others to support a shared purpose or goal). The student will demonstrate teamwork by working with a lab partner.

University Resources for Students

Resources to assist you in this course

- [UT Tyler Student Accessibility and Resource \(SAR\) Office](#)[Links to an external site.](#) (provides needed accommodations to students with document needs related to access and learning)
- [UT Tyler Writing Center](#)[Links to an external site.](#)
- [The Mathematics Learning Center](#)[Links to an external site.](#)
- [UT Tyler PASS Tutoring Center](#)[Links to an external site.](#)
- [UT Tyler Supplemental Instruction](#)[Links to an external site.](#)
- [Upswing \(24/7 online tutoring\)](#) - covers nearly all undergraduate course areas[Links to an external site.](#)[Links to an external site.](#)
- [Robert Muntz Library](#)[Links to an external site.](#) and [Library Liaison](#)[Links to an external site.](#)
- [Canvas 101](#)[Links to an external site.](#) (learn to use Canvas, proctoring, Unicheck, and other software)
- LIB 422 -- Computer Lab where students can take a proctored exam
- [The Career Success Center](#)[Links to an external site.](#)
- [UT Tyler Testing Center](#)[Links to an external site.](#)
- [Office of Research & Scholarship Design and Data Analysis Lab](#)[Links to an external site.](#)

Resources available to UT Tyler Students

- [UT Tyler Counseling Center](#) [Links to an external site.](#) (available to all students)
- [My SSP App](#)[Links to an external site.](#) (24/7 access to Student Support Program counseling through phone or chat and online wellness resources available in a variety of languages)
- [Student Assistance and Advocacy Center](#)[Links to an external site.](#)
- [Military and Veterans Success Center](#) [Links to an external site.](#) (supports for all of our military-affiliated students)
- [UT Tyler Patriot Food Pantry](#)[Links to an external site.](#)
- [UT Tyler Financial Aid and Scholarships](#)[Links to an external site.](#)
- [UT Tyler Registrar's Office](#)[Links to an external site.](#)
- [Office of International Programs](#)[Links to an external site.](#)
- [Title IX Reporting](#)[Links to an external site.](#)

- [Patriots EngageLinks to an external site.](#) (available to all students. Get engaged at UT Tyler.)

University Policies and Information

Withdrawing from Class

Students, you are allowed to [withdraw](#) (drop) from this course through the [Withdrawal Portal](#). Withdrawing from classes can impact Financial Aid, Scholarships, Veteran Benefits, Exemptions, Waivers, International Student Status, housing, and degree progress. Please read this page, speak with your instructors, consider your options, and speak with your instructor. UT Tyler faculty and staff are here for our students and often can provide additional support options or student assistance. Please read the implications for withdrawing from a course and the instructions on using the Withdrawal portal on the [Registrar's Withdrawal page](#).

Texas law prohibits students 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 other 2-year or 4-year Texas public colleges and universities. Consider the impact withdrawing from this class has on your academic progress and other areas, such as financial implications. We encourage you to consult your advisor(s) and financial aid for additional guidance. CAUTION #1: Withdrawing before census day does not mean you get a full refund. Please see the [Tuition and Fee Refund Schedule](#). CAUTION #2: All international students must check with the [Office of International Programs](#) before withdrawing. All international students are required to enroll full-time for fall and spring terms. CAUTION #3: All UT Tyler Athletes must check with the Athletic Academic Coordinator before withdrawing from a course. CAUTION #4: All veterans or military-affiliated students should consult with the [Military and Veterans Success Center](#).

Final Exam Policy

Final examinations are administered as scheduled. If unusual circumstances require that special arrangements be made for an individual student or class, the Dean of the appropriate college, after consultation with the faculty member involved, may authorize an exception to the schedule. Faculty members must maintain student final examination papers for a minimum of three months following the examination date.

Incomplete Grade Policy

If a student, because of extenuating circumstances, is unable to complete all of the requirements for a course by the end of the semester, then the instructor may recommend an Incomplete (I) for the course. The "I" may be assigned in place of a grade only when all of the following conditions are met: (a) the student has been making satisfactory progress in the course; (b) the student is unable to complete all coursework or final exam due to unusual circumstances that are beyond personal control and are acceptable to the instructor, and (c) the student presents these reasons before the time that the final grade roster is due. The semester credit hours for an Incomplete will not be used to calculate the grade point average.

The student and the instructor must submit an Incomplete Form detailing the work required and the time by which the work must be completed to their respective department chair or college dean for approval. The time limit established must not exceed one year. Should the student fail to meet all of the work for the course within the time limit, then the instructor may assign zeros to the unfinished work, compute the course average for the student, and assign the appropriate grade. If a grade has yet to

be assigned within one year, then the Incomplete will be changed to an F, or NC. If the course was initially taken under the CR/NC grading basis, this may adversely affect the student's academic standing.

Grade Appeal Policy

Disputes regarding grades must be initiated within sixty (60) days from the date of receiving the final course grade by filing a Grade Appeal Form with the instructor who assigned the grade; this is separate from the Application for Appeal form submitted to the Student Appeals Committee, which does not rule on grade disputes as described in this policy. If the student is not satisfied with the decision, the student may appeal in writing to the Chairperson of the department from which the grade was issued. In situations where there is an allegation of capricious grading, discrimination, or unlawful actions, appeals may go beyond the Chairperson to the Dean of the college from which the grade was issued, with that decision being final. The Grade Appeal form is found in the [Registrar's Form Library](#).

Disability/Accessibility Services

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA), the University of Texas at Tyler offers accommodations to students with learning, physical, and/or psychological disabilities. If you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or a history of modifications or accommodations in a previous educational environment, you are encouraged to visit <https://hood.accessiblelearning.com/UTTyler> and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with the Assistant Director Student Accessibility and Resources/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <https://www.uttyler.edu/disability-services>, the SAR office located in the University Center, # 3150, or call 903.566.7079."

Military Affiliated Students

UT Tyler honors the service and sacrifices of our military-affiliated students. If you are a student who is a veteran, on active duty, in the reserves or National Guard, or a military spouse or dependent, please stay in contact with your faculty member if any aspect of your present or prior service or family situation makes it difficult for you to fulfill the requirements of a course or creates disruption in your academic progress. It is important to make your faculty member aware of any complications as far in advance as possible. Your faculty member is willing to work with you and, if needed, put you in contact with university staff who are trained to assist you. The [Military and Veterans Success Center \(MVSC\)](#) has campus resources for military-affiliated students. The MVSC can be reached at MVSC@uttyler.edu or via phone at 903.565.5972.

Students on an F-1 Visa

To remain in compliance with Federal Regulations requirements you must do the following:

- Traditional face-to-face classes: Attend classes on the regular meeting days/times.

- Hybrid Classes: Attend all face-to-face classes convened by the instructor and meet with the Office of International Programs according to the schedule set for your specific course.
- Online course: Only one online course can count toward your full-time enrollment. Students are expected to be fully engaged and meet all requirements for the online course.

Academic Honesty and Academic Misconduct

The UT Tyler community comes together to pledge that "Honor and integrity will not allow me to lie, cheat, or steal, nor to accept the actions of those who do." Therefore, we enforce the [Student Conduct and Discipline policy](#) in the Student Manual Of Operating Procedures (Section 8).

FERPA

UT Tyler follows the Family Educational Rights and Privacy Act (FERPA) as noted in [University Policy 5.2.3](#). The course instructor will follow all requirements to protect your confidential information.

Absence for Official University Events or Activities

This course follows the practices related to approved absences as noted by the Student Manual of Operating Procedures ([Sec. 1 -501](#)).

Absence for Religious Holidays

This course follows the practices related to [Excused Absences for Religious Holy Days as noted in the Catalog](#).

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>.