

Physics 1401, College Physics I, Fall 2023

Instructors: Dr. Bao-An Li

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Office Hours: **By email appointments, occasional zoom meetings will be announced on D2L**

Text book: Cutnell & Johnson Physics, David Young and Shane Stadler,

Wiley, 10e or 11e, ISBN: 978-1-118-48689-4. **The textbook is required, but no lab manual is needed.**

Description:

Catalog Description: College Physics. Four semester hours. Mechanics and heat; including one two-hour laboratory period per week

Supplemental Description: College physics is an introductory physics course utilizing mathematics at the college algebra level and covering the topics of motion, forces, energy, momentum, mass, gravity, and other topics typically referred to as mechanics. This course is typically taken by biology and pre-med majors or other allied science areas that do not require calculus based physics.

Goals of the Course: Students will gain qualitative knowledge of classical mechanics, will be also able to work standard quantitative physics problems on the topics of the course. Students will verify, and explore many of these concepts in the laboratory. Laboratory instruction will consist of taking measurements, interacting with computer simulations, analyzing data and writing brief reports describing the experiments.

Grading Procedure and Scale:

Labs: The online laboratory simulations/activities count 20% of the course grade. **You must pass the lab to pass this course to meet the state accreditation requirement**

Course Grade: The lecture portion of the grade is determined by Online Discussions, Homeworks and 2 Exams:

Homeworks (Late Homework NOT accepted/graded unless otherwise pre-approved by the instructor) 40 %

Two Exams (Mid-term and the final will be announced on D2L, 15% each) 30%

Labs (Late Lab Reports NOT accepted/graded unless otherwise pre-approved by the instructor) 20%

Online Discussions (must post one physically meaningful and relevant question on the specific topic of the chapter and answer one question posted by others, late submissions NOT graded unless otherwise pre-approved by the instructor) 10%

90 and above: A

80 and above but less than 90: B

70 and above but less than 80: C

60 and above but less than 70: D

Topics covered (tentative)

Chapter 1	Introduction and Mathematical Concepts
Chapter 2	Kinematics in One Dimension
Chapter 3	Kinematics in Two Dimensions
Chapter 4	Forces and Newton's Laws of Motion
Chapter 5	Dynamics of Uniform Circular Motion
Chapter 6	Work and Energy
Chapter 7	Impulse and Momentum
Chapter 8	Rotational Kinematics
Chapter 9	Rotational Dynamics

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/registrar/documents/studentGuidebook.pdf). <http://www.tamuc.edu/admissions/registrar/documents/studentGuidebook.pdf>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: [Netiquette](http://www.albion.com/netiquette/corerules.html) <http://www.albion.com/netiquette/corerules.html>

TAMUC Attendance

For more information about the attendance policy please visit the [Attendance](http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx) webpage and [Procedure 13.99.99.R0.01](http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx). <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 Texas A&M University-Commerce 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](http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf)

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

[Graduate Student Academic Dishonesty 13.99.99.R0.10](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf>

ADA Statement

Students with Disabilities

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:

Student Disability Resources & Services

Texas A&M University-Commerce

Gee Library, Room 162

Phone (903) 886-5150 or (903) 886-5835 Fax (903) 468-8148 StudentDisabilityServices@tamuc.edu

Website: [Office of Student Disability Resources and Services](#)

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

Nondiscrimination Notice

Texas A&M University-Commerce 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 Texas A&M University-Commerce 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.

Texas A&M University-Commerce 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

13.99.99.R0.10 Graduate Student Academic Dishonesty