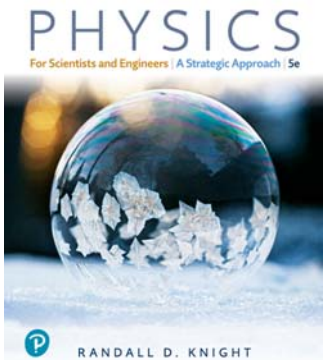


**THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF PHYSICS**

Course #:	PHYS 2320 CRN 23879
Course Title:	Introductory Mechanics
Term:	Spring 2026
Course Meetings & Location:	3:00 PM – 4:20 PM Tu & Th Physical Science Building room 208 Lecture notes will also be provided online on Blackboard
Prerequisite Courses:	MATH 1411
Course Fee: (if applicable)	-
Instructor:	Dr. Felicia S. Manciu
Office Location:	PSCI 221 B
Contact Info:	Phone # : (915) 747 8472
	E-mail address: fsmanciu@utep.edu
	Emergency Contact: (915) 747 5715
Office Hrs:	Tu and Th: 1:30 PM – 3:00 PM The main purpose of office hours is to provide additional guidance to students in acquiring analytical skills on problem solving, as well as to answer students' questions. All students are welcome to attend.
Workshops/seminars and Laboratories:	You need to sign up for one of the workshops/seminars. 23888 Tu 9:30am–10:20am PSCI 314 TA: Khem Tiwari 23889 W 9:30am–10:20am PSCI 314 TA: Lovia Ofori 23890 Th 9:30am–10:20am PSCI 314 TA: Khem Tiwari 23891 F 9:30am–10:20am PSCI 314 TA: Lovia Ofori and laboratories 23893 Tu 10:30am–12:20pm PSCI 322 TA: Lovia Ofori 23894 W 10:30pm–12:20pm PSCI 322 TA: Khem Tiwari 23895 Th 10:30am–12:20pm PSCI 322 TA: Lovia Ofori 23896 F 10:30am–12:20pm PSCI 322 TA: Khem Tiwari Workshops/seminars and laboratories will start <u>the week of February 2nd</u> .
Laboratory Coordinator:	Karla Carmona Physical Science Building 317 (email: kcarmona@utep.edu)
Textbook(s), Materials:	 <p>Main textbook: <i>Physics for Scientists & Engineers: A Strategic Approach</i> 5th Edition by Randall Knight</p> <p><i>Pearson –Mastering physics access code, for homework assignments. A code comes with e-textbook can be purchased online. Registration is REQUIRED!</i></p>

<p>Course Objectives (Learning Outcomes):</p>	<p>The objective of PHYS 2320, which is the first part of a sequence of two calculus-based introductory physics courses, is to provide students with a rigorous description of physical phenomena and to improve students' problem-solving abilities.</p> <p>We will study the following topics: Motion representation & Vectors, One-Dimensional Kinematics, Vectors & Two-Dimensional Kinematics, Newton's Laws of Motion, Work and Energy, Interaction and Potential Energy, Impulse and Momentum, and Rotation of a Rigid Body.</p>								
<p>Grading Policy:</p>	<p>Grades in this course will be based on your scores on two midterm exams, a final exam (comprehensive), homework assignments, and attendance.</p> <table border="1" data-bbox="727 569 1362 751"> <tr> <td>Midterm exams:</td> <td>40% (20% each)</td> </tr> <tr> <td>Final exam:</td> <td>30% (comprehensive)</td> </tr> <tr> <td>Homework</td> <td>25%</td> </tr> <tr> <td>Attendance</td> <td>5%</td> </tr> </table>	Midterm exams:	40% (20% each)	Final exam:	30% (comprehensive)	Homework	25%	Attendance	5%
Midterm exams:	40% (20% each)								
Final exam:	30% (comprehensive)								
Homework	25%								
Attendance	5%								
<p>Course Activities/Assignments:</p>	<p>Homework</p> <p>Several homework sets will be assigned. Homework is a key component of this course, as acquiring and improving your analytical skills critically depend on the number and variety of problems you attempt to solve. Due dates for homework will be posted online and announced in advance in the lecture. Each will consist of few problems based on the course material.</p> <p>It is essential that students become well versed in problem solving methods, which means developing skills to set up a problem, including diagrams and mathematical manipulation to achieve the final answer. A numerical score will be assigned for each homework set based on graded and counted problems. Make sure that you understand the solutions and write them up yourself.</p> <p><u>There is a strong correlation between homework scores and exam scores!</u></p> <p>Homework will be assigned in Mastering Physics: Course ID: manciu manciu43805 https://mlm.pearson.com/enrollment/manciu43805</p> <p>Registration to this site is required for the class!</p> <p><u>EACH STUDENT WILL NEED HIS OWN REGISTRATION PACKAGE FOR THE HOMEWORK AND EXAMS.</u></p>								
	<p>Exams</p> <p>Exams will consist of problems very similar to the worked example problems in the text and the assigned homework problems.</p> <p>The exams will be face-to-face during class time.</p> <p>The best way to prepare for the exams is to study the example problems and work out the assigned homework problems regularly. You should work as many additional problems from the text as you can: this is the best way to ensure your understanding of the material.</p>								

<p>Course Activities/Assignments:</p>	<p><u>First Midterm-exam (Chapters 1-4):</u> after the first four chapters & review. TBA (potentially on March 10th)</p> <p><u>Second Midterm-exam (Chapters 5-8):</u> after the next four chapters & review. TBA (potentially on April 14th)</p> <p><u>Final Exam (cumulative, Chapters 1-12):</u> UTEP's Spring 2026 exams scheduled by UTEP. TBA</p> <p>Final exams must be given at the scheduled time; any/all exceptions must be approved by both the Department Chair and the Dean.</p>
<p>Make-up Policy:</p>	<p>An extension of the due date for the homework as well as the make-up of missing exams will be granted only in extraordinary circumstances.</p>
<p>Attendance Policy:</p>	<p>Attendance & in-class participation is strongly encouraged, as being critical for your success in this class. Please arrive on time and be prepared for the day's activities. In the event of an absence, the student must make up and submit any missed work within one week from the absence.</p>
<p>Academic Integrity Policy:</p>	<p>Please see: http://academics.utep.edu/Default.aspx?tabid=23785</p>
<p>Technology Requirements:</p>	<p>While lectures will be face-to-face, <u>for exams and homework</u> you will need to have or have access to a computer/laptop. Check that your computer hardware and software are up-to-date and able to access all parts of the course. Ensure your UTEP e-mail account is working and that you have access to the Web and a stable web browser. Mozilla Firefox and Google Chrome are the most supported browsers for Blackboard; other browsers may cause complications with the LMS. When having technical difficulties, update your browser, clear your cache, or try switching to another browser.</p> <p>If you encounter technical difficulties beyond your scope of troubleshooting, please contact the Help Desk as they are trained specifically in assisting with technological needs of students.</p>
<p>Netiquette :</p>	<p>Always consider audience. Respect and courtesy must be provided to classmates and to instructor at all times. No harassment or inappropriate behavior will be tolerated. When reacting to someone else, address the ideas, not the person. Make sure that anyone would feel comfortably in a face-to-face situation.</p> <p>Blackboard is not a public internet venue; all postings to it should be considered private and confidential. Whatever is posted on in these online spaces is intended for classmates and professor only. Please do not copy documents and paste them to a publicly accessible website, blog, or other space. If students wish to do so, they have the ethical obligation to first request the permission of the writer(s).</p>
<p>Scholastic Integrity:</p>	<p>Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as ones' own.</p>

Scholastic Integrity:	Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the Office of Student Conduct and Conflict Resolution (OSCCR) for possible disciplinary action. To learn more HOOP: Student Conduct and Discipline .
Disability Statement:	If you have a disability and need accommodations, please contact the Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu . For additional information, please visit the CASS website at www.sa.utep.edu/cass . The student is responsible for presenting to the instructor any accommodation letters and instructions.
Military Statement:	If you are a military student with the potential of being called to military service and/or training during the course of the semester, you are encouraged to contact the instructor at the beginning of the semester.
Drop Policy	No course withdrawals will be allowed after the UTEP' official drop day (April 4th). To drop this class, please contact the Registrar's Office to initiate the drop process. If you cannot complete this course for whatever reason, please contact me. If you do not, you are at risk of receiving an "F" for the course.
Course Schedule:	<ol style="list-style-type: none"> 1. Concepts of Motion 2. Kinematics in One Dimension 3. Vectors and Coordinate Systems 4. Kinematics in Two Dimensions 5. Force and Motion 6. Dynamics I: Motion Along a Line 7. Newton's Third Law 8. Dynamics II: Motion in a Plane 9. Work and Kinetic Energy 10. Interactions and Potential Energy 11. Impulse and Momentum 12. Rotation of a Rigid Body
No AI use is allowed for this course:	AI, such as ChatGPT, may be a useful tool for many things, but it negates the purpose of this course and hinders your learning. No use of such tools are allowed for any part of this course.