Spring 2026 Course Syllabus
Course: PHYS-1305 (Section: 71, CRN: 92111)
Elementary Physics I

Instructor Information

Instructor	Md Habibur Rahman
Email	rahmanh@lamarpa.edu
Phone	(956)-270-2459
Office	Educational I - Room: 131
Office Hours	Online by appointment on Microsoft Teams or Zoom.
Additional Contact Information	Please, contact through your LSCPA assigned email only. Email your instructor and leave him your messages on Microsoft Teams room or zoom.

Course Information

Description

Course, designed for non-science majors that surveys topics from physics, chemistry, geology, astronomy, and meteorology. May or may not include a laboratory.

Required Textbooks

Textbook Purchasing Statement: A student attending Lamar State College Port Arthur is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Conceptual Physical Science by Paul Hewitt, ed.6, Pearson Addison Wesley. ISBN-13: 9780134060484. Other versions of the textbook are accepted.

Additionally Materials/Resources

The instructor will provide other supplemental information:
Additional Materials supplied by your instructor.

Corequisites/Prerequisites

Learn how to use Blackboard and Microsoft Teams, computer and internet.

Recommended corequisite PHYS 1105.
Basic skill competency in reading, writing, and math.

Learning Outcomes

Upon successful completion of the course, you will:

1. Determine the components of linear motion like displacement, velocity, and acceleration. Understanding different types of equilibrium.
2. Apply Newton's laws to physical problems like gravity.
3. Use principles of impulse and linear momentum.
4. Solve problems by using principles of energy.
5. Solve problems of the universal law of gravity.
6. Understand and solve problems of projectile motion and satellites.
7. Solve fluid mechanics problems.
8. Solve problems using the principles of heat and thermodynamics.
9. Understand heat transfer, change of phase, and climate change.

10. Understanding atoms, fundamental particles, their interactions, and the periodic table.
11. Learning models and the inter-relationship of fundamental charged particles.
12. Understand radioactivity, forces inside the nucleus of an atom, nuclear fusion, and fission.
13. Learn about the elements and compounds and know how to name them.
14. Understand Ions and types of bonds, molecules.

Core Objectives

- ✓ Communication skills: Students will demonstrate effective written, oral, and visual communication.
- ✓ Critical Thinking Skills: Students will engage in creative and/or innovative thinking, and/or inquiry, analysis, evaluation, synthesis of information, organizing concepts, and constructing solutions.
- ✓ Empirical and Quantitative Skills: Students will demonstrate applications of scientific and mathematical concepts.
- ✓ Teamwork: Students will demonstrate the ability to work effectively with others to support a shared purpose or goal and consider different points of view.

Lecture Topics Outline

Chapter(s) Contents

CH. 1 Patterns of Motion & Equilibrium:
CH. 2 Newton's Laws of Motion:
CH. 3 Momentum & Energy
CH. 4 Gravity, Projectiles, and Satellites
CH. 5 Fluid Mechanics
CH. 6 Thermal Energy and Thermodynamics
CH. 7 Heat Transfer and Change of Phase
CH. 8 Static and Current Electricity
CH. 9 Magnetism and Electromagnetic Induction
CH. 10 Waves and Sound
CH. 12 & 13 Atoms and the Periodic Table & The Atomic Nucleus and Radioactivity
CH. 14 Elements of Chemistry
CH. 15 How Atomic Bond and Molecules Attract

Class Plan

Week and Date				
Week Number	Chapter/Topic For PHYS-1315	Homework Due date PHYS-1315	Lab Name and Number For PHYS-1115	Quiz PHYS-1315
Week 1 (01/20/2026 – 01/26/2026)				
Week 1	Chapter 1 Patterns of Motion & Equilibrium Chapter 2 Newton's Laws of Motion	HW chapters 1 & 2 Due date 01/26/2026	Forces and Motion	Quiz 1
Week 2 (01/27/2026 – 02/02/2026)				
Week 2	Chapter 3 Momentum & Energy	HW chapter 3 Due date 02/02/2026	Energy Skate Park	Quiz 2
Week 3 (02/03/2026 – 02/09/2026)				
Week 3	Chapter 4 Gravity, Projectiles, and Satellites	HW chapter 4 Due date 02/09/2026	Projectile Motion	Quiz 3
Week 4 (02/10/2026 – 02/16/2026)				
Week 4	Exam 1 (Ch 1, 2, 3, 4) available on 02/10/2026	Exam 1 will be Due date 02/16/2026		
Week 5 (02/17/2026 – 02/23/2026)				
Week 5	Chapter 5 Fluid Mechanics	HW Chapter 5 Due date 02/23/2026	Gravity	Quiz 4
Week 6 (02/24/2026 – 03/02/2026)				
Week 6	Chapter 6 Thermal Energy and Thermodynamics	HW Chapter 6 Due date 03/02/2026	States of Matter	Quiz 5
Week 7 (03/03/2026 – 03/08/2026)				
Week 7	Chapter 7 Heat Transfer and Change of Phase	HW Chapter 7 Due date 03/08/2026	Energy Forms and Changes	Quiz 6
Week 8 (03/09/2026 – 03/14/2026)				
Week 8	Spring Break 03/09/2026------03/14/2026			
Week 9 (03/15/2026 – 03/21/2026)				
Week 9	Exam 2 (Ch 5, 6, 7) available on 03/15/2026	Exam 2 will be Due date 03/21/2026		
Week 10 (03/22/2026 – 03/28/2026)				
Week 10	Chapter 8 Static and Current Electricity	HW Chapter 8 Due date 03/28/2026	Charges and Fields	Quiz 7

			Resistance in a wire	
Week 13 (03/29/2026 – 04/04/2026)				
Week 13	Chapter 9 Magnetism and Electromagnetic Induction	HW chapter 9 Due date 04/04/2026	Magnets and Electromagnets Ohm's Law	Quiz 8
Week 14 (04/05/2026 – 04/11/2026)				
Week 14	Chapter 10 Waves and Sound & light	HW chapters 10 Due date 04/11/2026	Generator	Quiz 9
Week 15 (04/12/2026 – 04/18/2026)				
Week 15	Exam 3 (8, 9, 10) available on 04/12/2026	Exam 3 Due date 04/18/2026		
Week 16 (04/19/2026 – 04/25/2026)				
Week 16	Chapter 12 & 13 Atoms and the Periodic Table & The Atomic Nucleus and Radioactivity	HW chapters 12 & 13 Due date 04/25/2026	Build an Atom	Quiz 10
Week 17 (04/26/2026 – 05/02/2026)				
Week 17	Chapter 14 Elements of Chemistry Chapter 15 How Atomic Bond and Molecules Attract	HW Chapter 14 Due date 05/02/2026	Density	Quiz 11
Week 18 (05/03/2026 – 05/10/2026)				
Week 18	Exam 04 (12, 13, 14, 15) available on 05/03/2026	Exam 04 Due date 05/10/2026	Final Lab Exam Due date 05/10/2026	
Last day of class 05/14/2026				

This schedule is an idealized guide for the course. Depending on the situation, changes may be made by the instructor. The instructor reserves the right to modify the syllabus. Any changes will be announced in class and on the content folder of Blackboard, Microsoft Teams, and/ or through email.

Major Assignments Schedule

Exam 1 Due February 16, 2026
Exam 2 Due March 21, 2026
Exam 3 Due April 18, 2026
Academic Assessment Due December 4, 2026.
Exam 3 Due May 10, 2026

Final Exam Date	May 6, 2026 - 10:0 PM Through May 9, 2026 - 11:59 PM
Grading Scale	90 - 100=A 80 - 89=B 70 - 79=C 60 - 69=D Equal to, or below 59 = F Roundup for decimals.
Determination of Final Grade	Homework: About 10 HW Assignments 30%. We usually have about ten to twelve HWs, and one HW with the lowest grade will be omitted. Meaning, students may miss one HW with no penalty. The Academic Assessment Project is considered as one HW assignment and MUST BE submitted. Quiz: About 4 Quizzes 20%. One quiz with the lowest grade will be omitted. Meaning, students may miss one quiz with no penalty. Exams: About 3 Tests 20%. One exam with the lowest grade will be omitted. Meaning, students may miss one exam with no penalty. Comprehensive Final Exam 30%. You must take the Final Exam. No makeup exams, no makeup homework or no makeup quizzes are given, and there are NO retake/resubmission on any exam, quiz, or homework. There is no late quiz or late exam, or late HW assignments. Compulsory Exams, Quizzes, and homework's that are not taken/submitted before the due date, as scheduled will receive a grade of zero. The instructor may regrade all previous work anytime throughout the semester.

Course Policies

Instructor Policies	The instructor may regrade all previous work anytime throughout the semester. Only students enrolled in the online class are permitted in the online classroom. Every assignment, test, homework, etc., should be typed and submitted/posted on Blackboard. NO submission or posting of any type via email or as hard copy or printed version will be accepted. We are expected to be courteous towards the instructor, students and your classmates. It is students' responsibility to have a reliable computer and internet access for the duration of this course. Exams and quizzes can only be taken on a laptop or desktop computer. If your laptop/desktop computer breaks for any reason during the semester, it does not excuse you from the requirements and deadlines of the course. It is your responsibility to make sure all exams and assignments are completed by their due date and according to the instructions given. If uncertain about the reliability of your internet access during the exams, then use the computers at school and the library. SafeAssign app on Blackboard examines all the assignments for any plagiarism. Matching of 20% or more can lead to a zero "0" grade (1st offense) and failure of the course (2nd offense) for all the parties involved. It is the student's responsibility to prevent any failure of this kind by all means.

College-assigned email accounts will be used to deliver official college correspondence. Each individual is responsible for information sent and received via the email account. The instructor will not answer any email with no course and section number as the subject of the letter, with no further notice. Your instructor will not accept any correspondence by any other person via your college email account. This includes your parents/guardians. Parents/guardians of early college or dual credit students are requested please to contact their relevant office at the Lamar state College Port Arthur. Faculty should not communicate with parents. This is institute policy.

Attendance Policy

This course is an Online Asynchronous course. When needed, there are online discussion meetings through Microsoft Teams that will be recorded and posted for student reviews. Attending the live meetings is highly recommended, but not mandatory.

Additional Information

Recommendation: Your instructor usually responds to your inquiries when posted on Microsoft Teams, 7/24, over the weekends and holidays when available.

Institutional Policies

MyLSCPA

Be sure to check your campus email and Course Homepage using MyLSCPA campus web portal. You can also access your grades, transcripts, academic advisors, degree progress, and other services through MyLSCPA.

Academic Honesty

Academic honesty is expected from all students, and dishonesty in any form will not be tolerated. Please consult the LSCPA policies (Academic Dishonesty section in the Student Handbook) for consequences of academic dishonesty.

ADA Considerations

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides
comprehensive civil rights for people with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Services Coordinator, Room 117, in the Student Sucess Center. The phone number is (409) 9846241.

COVID 19 Information

The Lamar State College Port Arthur (LSCPA) Student Code of Conduct COVID 19 Policy requires students who have been diagnosed with COVID 19 to report their condition directly to their local health department. Students should also contact their course faculty to report their quarantine status. In addition, this policy requires all students to wear face coverings when directly exposed to COVID 19 in compliance with the criteria included in the policy. For more information, please refer to the COVID 19 link on the LSCPA website.

Facility Policies

No food or tobacco products are allowed in the classroom. Only students enrolled in the course are allowed in the classroom, except by special instructor permission. Use of electronic devices is prohibited.

HB 2504	This syllabus is part of LSCPA's efforts to comply with Texas House Bill 2504.
Mandatory Reporting of Child Abuse and Neglect	As per Texas law and LSCPA policy, all LSCPA employees, including faculty, are required to report allegations or disclosures of child abuse or neglect to the designated authorities, which may include a local or state law enforcement agency or the Texas Department of Family Protective Services. For more information about mandatory reporting requirements, see LSCPA's Policy and Procedure Manual.
Title IX and Sexual Misconduct	LSCPA is committed to establishing and maintaining an environment that is free from all forms of sex discrimination, including sexual harassment, sexual violence, and other forms of sexual misconduct. All LSCPA employees, including faculty, have the responsibility to report disclosures of sexual misconduct, including sexual harassment, sexual assault (including rape and acquaintance rape), domestic violence, dating violence, relationship violence, or stalking, to LSCPA's Title IX Coordinator, whose role is to coordinate the college's response to sexual misconduct. For more information about Title IX protections, faculty reporting responsibilities, options for confidential reporting, and the resources available for support visit LSCPA's Title IX website.
Clery Act Crime Reporting	For more information about the Clery Act and crime reporting, see the Annual Security & Fire Safety Report and the Campus Security website.
Grievance / Complaint / Concern	If you have a grievance, complaint, or concern about this course that has not been resolved through discussion with the instructor, please consult the Department Chair.

Department Information: General Education and Developmental Studies

Chair: Dr. Steven Zani

Email: zanisj@lamarpa.edu

Phone: (409) 984-6431