Spring 2026 Course Syllabus
Course: PHYS-1105 (Section: 71, CRN: 92113)
Elementary Physics Laboratory 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 with Microsoft Teams or Zoom.
Additional Contact	All the meetings on Microsoft Teams are recorded for the students' review later. Information

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. In addition to the textbook used in the lecture course, the instructor will furnish the class with lab report handouts for most of the projects.*
Additional Materials/Resources	Internet access and computers. Additional materials Will be posted on Microsoft Teams and Blackboard LMS
Corequisites/ Prerequisites	According to the projects.
	Recommended corequisite PHYS 1305. Basic skill competency in reading, writing, and math.
	Learn how to use Blackboard and Microsoft Teams. Recommended corequisite PHYS 1305. Basic skill competency in reading, writing, and math.
Learning Outcomes	Develop techniques to set up and perform experiments, collect data from those experiments, and formulate conclusions from an experiment. Demonstrate the collection, analysis, and reporting of data using the scientific method. Record experimental work completely and accurately in laboratory notebooks and communicate experimental results clearly in written reports.
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. 12 Atoms and the Periodic Table
CH. 13 The Atomic Nucleus and Radioactivity
CH. 14 Elements of Chemistry
CH. 15 How Atoms Bond and Molecules Attract

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, Bb, or through email.

Major Assignments Schedule

There is an average of one laboratory assignment for each ten days, according to the lecture topics.

For online lab courses, we mostly have lab projects based on the use of simulators.

Students need to experiment and turn in at least 11 lab reports to be qualified for the final grades. However, you can miss one lab report with no penalty. This does not include your Academic Assessment assignment. There are no exams or quizzes. There is one Lab project as Academic Assessment which is considered as one lab report as well.

Academic Assessment Due May 1, 2025.

Final Exam Date

May 03, 2026 – 12. 00 AM Through May 10, 2025 - 12:00 AM

Grading Scale

90 - 100 = A, 80 - 89 = B, 70 - 79 = C, 60 - 69 = D, 59 and lower = F

Determination of Final Grade

Your grade is the sum of the grades for your graded projects/reports divided by the number of projects. Laboratory courses and their grades are independent of the lecture course. Any uncompleted assignment will be averaged in with a grade of zero. No makeup lab project is given, and there are NO retakes/resubmission on any assignment. Late assignments will not be accepted and will result in a grade of zero. However, you can miss one lab report with no penalty. This does not include your Academic Assessment assignment.

Again, Laboratory courses and their grades are independent of the lecture course. Lecture and Lab grades are NOT combined.

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 Resistance in a wire	Quiz 7
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				

Course Policies

Instructor Policies

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.
You are expected to be courteous towards the instructor and your classmates.
It is students' responsibility to have reliable computer and internet access for the duration of this course. 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 assignments are completed by their due date and according to the instructions given. If uncertain about the reliability of your internet access, then use the computers at school and the library.
SafeAssign app on Blackboard examines all the assignments for any plagiarism. Matching 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 students' 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 the relevant office at the Lamar State College Port Arthur. Faculty should not communicate with parents. This is institute policy.

You will use online simulators, For each laboratory experiment. some projects will be given to do at the safety of your home. Lab assignments will be posted on Blackboard.

The instructor will furnish you with a lab report template and guidelines.

Attendance Policy

An Online, Asynchronous course, using simulators, or projects done at home.

Additional Information

Each student must write up their own Lab and must not makeup data.
Sharing images or documents is considered academic dishonesty and will result in a grade of zero for that assignment. Grades for the previous assignments will be voided if academic dishonesty is found. Repeated instances of academic dishonesty will result in a course grade of "F" and other possible additional academic penalties.

IMPORTANT REMINDER
The instructor may regrade all previous work anytime throughout the semester.

At Lamar State College PA, you, the students, are expected to conduct yourself maturely and responsibly, respecting the opinions and rights of others. You are responsible for seeking help and guidance from all the college's resources available to you. You are solely responsible for any aspect of your accepted role as a college student. The Responsibilities include but are not limited to being aware of deadlines and additional course policies set by the college or the instructor during the course, previewing, studying, and learning the subjects, conducting yourself, knowing the rules, doing homework and assignments, remain informed about school dates and deadlines.

Above all, you are expected to strive for honesty and academic integrity throughout your study at Lamar State College PA.

Any information contained in the syllabus is subject to change without notice, and the instructor retains the right to make changes and amendments to the course assignments, syllabus, or dates. Any changes will be furnished on Blackboard, by email, or in online sessions.

Your instructor is committed to ensuring that all students with any disabilities or disorders are able to compete successfully with non-disabled students. Students requesting accommodation must contact the appropriate school department at the beginning of the semester.

OTHER

Your instructor will not discuss your grades over the phone or by email. If you want to discuss your grades, you must arrange a meeting with your instructor at Lamar State College Port Arthur department of Education, well in advance.
COVID-19 Please read the information and implement the recommendations https://www.lamarpa.edu/General/Alerts/COVID-19.
After the semester is over you may obtain your final course grade by logging in to your online account. The schedule for the assignments is posted on the course content folder on Bb, and it is the responsibility of the student to be aware of the schedule. Reminders will not be sent out.

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 accommodation, please contact the

COVID 19 Information	The Lamar State College Port Arthur (LSCPA) Student Code of
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. Disability Services Coordinator, Room 117, in the Student Success Center. The phone number is (409) 9846241.
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.

Department Information

General Education and Developmental Studies Chair:

Dr. Steven Zani
Email: zanisj@lamarpa.edu
Phone: (409) 984-6431