



# PENSACOLA STATE COLLEGE

## SYLLABUS

### Introduction to Fundamental of Physics

PHY1020-P2037

Spring 2026, Session A

**Instructor:** Beata Bialek

**Phone:** (850)484-1189

**Email:** bbialek@pensacolastate.edu

**Office Hours:** TBD

**Department Head:** Dr. Vasanth Ramachandran

**Department Head Office:** 1760-A

**Department Head Phone:** (850)484-1106

**Department Head Email:** vramachandran@pensacolastate.edu

**Last Date of Drop/Add:** January 15, 2026

**Last Date for Student to Withdraw:** April 6, 2026

**Final Exam Date:** TBD

**Class Meeting Time:** Thursday | 5:00 PM - 7:40 PM

**Class Location:** Pensacola Campus, Building 17, Room 1775

**Course Description:** This course offers a comprehensive survey of physics, covering a wide range of topics including motion, Newton's laws, energy, sound, heat, electricity, magnetism, and optics. Emphasizing a conceptual understanding of physics, the course integrates critical thinking skills and real-world applications.

**Credit Hours:** 3 credit hours

**Semesters Offered:** Fall, Spring, Summer

**Course Designations:** **College Transfer.** Meets AA General Education Core, Natural Sciences (Physical Sciences) requirement.

**General Education Core Course Standard: Per Florida Statute 1007.25,** "Natural science courses must afford students the ability to critically examine and evaluate the principles of the scientific method, model construction, and use the scientific method to explain natural experiences and phenomena."

**Required Textbooks and Instructional Materials:** Physics of Everyday Phenomena; Juliet Brosing and W. Thomas Griffith; 9781264121267; McGraw Hill; 10<sup>th</sup> edition, 2022

The educational materials used in this course, including textbooks and ancillary materials, are intended for educational purposes only. All opinions represent those of the author(s) and not necessarily those of Pensacola State College, or the instructor.

### Course Learning Outcomes:

1. Prepare students for the successful completion of PHY1053, General Physics I.
2. Discuss the methods of scientific thinking and analysis.
3. Use analytical reasoning in solving problems in physics.
4. Define and apply basic concepts and terminology in physics.
5. Apply graphical solutions and mathematical models to the solution of physical problems.

**General Education Student Learning Outcomes:**

- 1. Critical Thinking:** The student analyzes, evaluates, and, if necessary, challenges the validity of ideas, principles, or data in order to develop informed opinions, probable predictions, or defensible conclusions.
- 2. Scientific and Mathematical Literacy:** The student properly identifies and applies scientific or mathematical principles and methods.
- 3. Information Literacy:** The student effectively locates, evaluates, and applies information from a variety of sources.

**Methods of Evaluation:** At minimum, the instructor will cover content which aligns with statewide and institutional learning outcomes for the course. The instructor will measure student performance using the following:

Grade calculation: Your final grade is based on your (1) Homework, (2) Quizzes, and (3) Exams

Percentage break-down:	Homework:	15%
	Chapter Quizzes:	15%
	Exams (3 Tests + Final):	70%

**Grade Point Average:**

A (90–100%)	B+ (87–90%)	B (80–87%)	C+ (77–80%)
C (70–77%)	D+ (67–70%)	D (60–67%)	F (< 60%)

**Student Expectations:** Students enrolled in this course can expect the following:

1. Clearly identified course objectives;
2. Productive class meetings;
3. A positive learning environment;
4. Opportunities for appropriate student participation;
5. Effective instruction;
6. Positive and appropriate interactions;
7. Assistance with meeting course objectives during and beyond class hours;
8. Evaluation of student performance and appropriate and timely feedback; and
9. Clear and well-organized instruction.

**Academic Dishonesty Statement:** Pensacola State College is committed to upholding the highest standards of academic conduct. All forms of academic dishonesty, to include plagiarism and cheating, are prohibited. Penalties for academic dishonesty include but are not limited to one or more of the following: the awarding of no credit on the assignment, a reduction in the course grade, or the assignment of a final course grade of F and removal from the course. See the College Catalog for more details: [Academic Integrity](#)

**ADA Statement:** Students with a disability that falls under the Americans with Disability Act Amendments Act of 2008 or Section 504 of the Rehabilitation Act should contact the Student Resource Center for ADA Services to discuss academic accommodations. Appropriate academic accommodations are determined on an individual basis with careful consideration of the course learning outcomes and the documentation of the disability. For more information, students should visit the Student Resource Center for ADA Services on the Pensacola campus in building 6, room 603; call 850-484-1637; email [ADAservices@pensacolastate.edu](mailto:ADAservices@pensacolastate.edu); or complete the online intake form in the ADA Services app within the MyPSC apps dashboard.

**Emergency Statement:** In the case of severe weather or other emergency, the College administration maintains communication with appropriate state and local agencies and makes a determination regarding the cancellation of classes. Notices of cancellation will be made through the College's PSC Alert system and on the College's website.

**Flexibility Statement:** It is the intention of the instructor to accomplish the objectives specified in the course syllabus. However, circumstances may arise which prohibit the fulfilling of this endeavor. Therefore, this syllabus is subject to change. When possible, students will be notified of any change in advance of its occurrence.

**Non-Discrimination Statement:** Pensacola State College does not discriminate against any person on the basis of race, color, ethnicity, religion, sex (as defined by applicable federal and state law), national origin, age, disability, genetic information, pregnancy, or marital status in its educational programs, activities, or employment. For inquiries regarding the College's nondiscrimination policies, contact the Civil Rights Compliance Officer at (850) 484-1759, Pensacola State College, 1000 College Blvd., Pensacola, Florida 32504.

**Security Statement:** Pensacola State College is committed to encouraging all members of the College community to be proactive in personal safety measures. In case of emergency, students should ensure that they are aware of the building exit closest to each of their classrooms, as well as all alternative building exits in case circumstances require using a different route.

**Student Email Accounts:** Pensacola State College provides an institutional email account to all students enrolled in courses for credit. PirateMail is the official method of communication, and students must use PirateMail when communicating with the College. In cases where companion software is used for a particular class, email may be exchanged between instructor and student using the companion software.