

Southeastern University
College of Natural & Health Sciences
Department of Natural Sciences
PHYS 2633 - General Physics II
Official Syllabus

Catalog Description

This course is the second semester of an introduction to the physics of heat, electricity, wave motion, and optics.

Prerequisite: PHYS 2533

Credit Hours: 3

Repeatable: Course not repeatable

Intended Learning Outcomes

Students who successfully complete this course will:

1. Apply the laws of periodic motion to predict the position of an object as a function of time, demonstrating the ability to apply these principles in practical scenarios.
2. Apply understanding of the principles of sound waves to describe the fundamental qualities of sound waves and their interactions.
3. Describe how lenses and mirrors produce real or virtual images, demonstrating knowledge of optics principles.
4. Demonstrate understanding of the basics of electrostatics, including Coulomb's law, electric fields, and electric potential, by explaining their significance and applications.
5. Analyze the current through circuits that include resistors, capacitors, and inductors, applying knowledge to analyze and solve complex circuit problems.
6. Explain the relationship between electricity and magnetism and how this connection can produce an electromotive force (emf), demonstrating a deep comprehension of the underlying principles.

Version History

03/30/2010 v1.0 Original course proposal.

11/14/2023 v2.0 Updated.

07/28/2025 v3.0 Update ILOs