

PHYS 135C : Physics II (Algebra-based)

This is a study of classical physics. Topics include oscillations, mechanical waves and sound, fluids, heat, electrostatics, Ohm's law, D.C. circuits, electromagnetism, and geometrical optics. A graphing calculator will be required.

Credits 4

Lab/Practicum/Clinical Hours 2

Lecture Hours 3

Prerequisite Courses

PHYS 133C

MATH 124C

Learning Outcomes

- State, interpret, and apply the definitions of physical quantities related to fluids, thermodynamics, oscillations, waves and sound, electricity and magnetism, and geometrical optics.
- Set up and solve problems, including word problems, analytically using algebra and trigonometry.
- Solve problems using numerical methods.
- Solve problems using graphical methods, including problems in geometrical optics.
- Set up laboratory equipment safely and efficiently, plan and carry out experimental procedures, identify and reduce sources of error, analyze and interpret data, and summarize findings in a laboratory report.