

PHYS 170 : General Physics I

This is the first of a rigorous, calculus-based course in physics for the professional or engineering majors. The study of the concepts of physics including the fundamental principles and theories of mechanics, energy, waves and thermodynamics.

Credits 4

Lecture Hours 4

Designation

DP

Prerequisites

Credit for MATH 241 (formerly MATH 205) or higher or equivalent or consent of instructor

Corequisites

PHYS 170L and credit for or registration in MATH 242 (formerly MATH 206) or equivalent, or consent of instructor.

Course Outcomes

- Demonstrate a solid conceptual understanding of kinematics, dynamics, wave phenomena, and thermodynamics.
- Solve applicable problems using differential calculus and vector analysis.
- Apply the laws of physics to computational problems in kinematics, dynamics, wave phenomena, and thermodynamics.