

PHYS 101 : Career and Technical Education Physics

Credits: 3

Class Hours: 3 lecture

Prerequisites: Qualified for MATH 100.

Description: This course investigates the nature of science and selected topics among linear and rotational mechanics, problems of motion, energy, optics, pressure, fluids, wave motion, electricity, or magnetism. Basic trigonometry is introduced and used along with introductory algebra to solve problems. Emphasis is placed on practical applications of physics in industry and in everyday life. This course is geared for students pursuing certificates and applied science trade degrees.

Semester Offered: Fall, Spring

Designation:

Diversification: Physical Sciences — DP

Course Student Learning Outcomes (CSLOs):

1. Apply physics principles to solve practical problems in industry and everyday life.
2. Describe the scientific process and scientific thinking.
3. Identify fundamental physics principles with practical applications in industry and everyday life.
4. Collect, document, and organize data such that it can be reasonably interpreted by others.
5. Compare and contrast the scientific process and scientific thinking to common everyday thinking.