

PHYS128L : Introduction to Physical Sciences

This fast-paced course covers the major concepts of physics and uses them in explaining how our world actually works. These concepts are developed through demonstrations and experiments and require a minimum of mathematics. What is required is the ability to conceptualize the big underlying ideas, the ability to overcome notions about what we think we see versus what is actually happening, and the ability to combine and apply previously learned concepts to explain technology. The physics content covers motion, mechanics, work and energy, thermodynamics, waves, electricity, magnetism, light, and radioactivity. Among the course topics covered are the workings of air conditioners, electric motors, musical instruments, rockets, hot air balloons, four-stroke automobile engines, and radios.

Credits 4

Lab Hours 2

Class Hours 3

Prerequisites

Competence as demonstrated on math placement exam