

Course Descriptions

Physics

PHYS 1114 General Physics I

Physics for liberal arts students, pre-professional students in biological and health fields (pre-medicine, pre-nursing, pre-therapy, etc.) and technology students; includes topics from mechanics, heat, fluids, thermodynamics, waves, and sound. Prerequisite: MATH 1513 College Algebra. Offered usually fall semester only. (Meets general education Physical Science requirement.)

PHYS 1214 General Physics II

A continuation of PHYS 1114 General Physics I. Includes topics from electricity, magnetism, light, optics, and modern physics. Prerequisite: MATH 1513 College Algebra. Offered spring semester only. (Meets general education Physical Science requirement.)

PHYS 2014 Engineering Physics I

Calculus-based general physics course for science and engineering students. Includes topics from mechanics, heat, thermodynamics, waves and sound. Prerequisite: MATH 2145 Calculus I or concurrent enrollment. Offered spring semester only. (Meets general education Physical Science requirement.)

PHYS 2104 Concepts in Physics

An introductory course designed to explain the basic concepts of motion and forces, matter, energy conservation, thermodynamics, fluid flow, electrical circuits and magnetism. Recommended for process technology and elementary education majors as a model course to learn and teach science.

Prerequisite: math proficiency through MATH 0023 Concepts of Algebra. (Meets general education Physical Science requirement.)

PHYS 2114 Engineering Physics II

A continuation of PHYS 2014 Engineering Physics I. Includes topics from electricity, magnetism, light and optics. Prerequisite: PHYS 2014 Engineering Physics I or equivalent. (Meets general education Physical Science requirement.)

PHYS 2450 Supervised Study in Physics

Independent study.

PHYS 2812 Applied Physics

This course is designed for students majoring in technology programs or those requiring exposure to applications of physics. The course covers the study of mechanics, relativity, heat, thermodynamic and harmonic motion, heat, sound, optics and modern energy sources with practical applications used to reinforce the theory. (Meets general education Physical Science requirement.)