

PHYSICS (PHYS)

PHYS 221 Principles of Physics I 4 Credit Hours (3,2)

General principles of rigid body mechanics (kinematics, forces, laws of motion, energy, momentum, rotation), and fluid mechanics.

Prerequisite(s): Two years of high school algebra and one-half year of high school trigonometry with a math ACT score of 28 or higher, New SAT Math Section is 660 or higher, New SAT Math Test is 33 or higher, or Old SAT Math Section is 640 or higher, or MATH111

PHYS 222 Principles of Physics II 4 Credit Hours (3,2)

Vibrations and waves, electricity and magnetism, optics, relativity and modern physics.

Prerequisite(s): PHYS221 with a grade of C or better

PHYS 224 Topics Physics Electrical Tech 4 Credit Hours (3,2)

Vibrations and waves, optics, relativity and modern physics (identical to PHYS222). Electricity and magnetism topics of particular relevance to electronic engineering technology.

Prerequisite(s): PHYS221 with a grade of C or better, sophomore standing in EET course work, and MATH140 (which may be taken concurrently)

PHYS 231 Appl Phys Engineer/Scientist I 4 Credit Hours (3,2)

An introductory course in rigid body mechanics and fluid mechanics using calculus with emphasis on practical applications. Intended primarily for students of engineering, physical science and mathematics.

Prerequisite(s): MATH151

PHYS 232 App Phy Engineer Scientist II 4 Credit Hours (3,2)

Continuation of PHYS231. Introduction to thermal physics, electricity, magnetism, electromagnetic waves, and optics.

Prerequisite(s): PHYS231 with a grade of C or better

PHYS 290 Independent Study in Physics 1-4 Credit Hours (1-4,0)

Special studies and/or research in physics for individuals or small seminar groups. Course content to be arranged with instructor and with approval of the school chair. This course may be repeated for a maximum of eight credits.

Prerequisite(s): Sophomore standing or higher and permission of instructor