

# PHYSICS (PH)

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## **PH180 Internship: Physics** 1-12 credits (3 lab hrs/wk/cr)

Prerequisite(s): Instructor consent

Practical on-site experience that will allow students to explore workplace environments and career options.

This course may be taken 12 times for credit.

Course classification: LDC

## **PH201 General Physics I: Mechanics** 5 credits (4 lec, 3 lab hrs/wk)

Prerequisite(s): ( MTH112 )

Algebra-based study of physics principles. This is the first course in a three course sequence. Concepts of mechanics including kinematics, forces, equilibrium, energy, momentum, conservation laws. Includes laboratory activities. Must be taken in sequence.

This course may be taken 1 time for credit.

Course classification: LDC

## **PH202 General Physics II: Heat, Waves, Relativity** 5 credits (4 lec, 3 lab hrs/wk)

Prerequisite(s): ( PH201 )

Study of the physical properties and interactions of systems. Second course of the sequence focuses on fluids, thermodynamics, waves, and relativity.

This course may be taken 1 time for credit.

Course classification: LDC

## **PH203 Gen Physics III: Elect & Magnetism** 5 credits (4 lec, 3 lab hrs/wk)

Prerequisite(s): ( PH202 )

Study of the physical properties and interactions of electricity and magnetism. Includes laboratory activities. Must be taken in sequence.

This course may be taken 1 time for credit.

Course classification: LDC

## **PH211 General Physics with Calculus I** 5 credits (4 lec, 3 lab hrs/wk)

Prerequisite(s): ( MTH112 )

Study of the physical properties and interactions of mechanics including kinematics, forces, energy and momentum. For science and engineering students. Includes laboratory activities. Must be taken in sequence.

This course may be taken 1 time for credit.

Course classification: LDC

## **PH212 General Physics with Calculus II** 5 credits (4 lec, 3 lab hrs/wk)

Prerequisite(s): ( PH211 )

Corequisite(s): ( MTH252 )

Study of the physical properties and interactions of fluids, sound, heat, light, and optics. For science and engineering students. Includes laboratory activities. Must be taken in sequence

This course may be taken 1 time for credit.

Course classification: LDC

## **PH213 General Physics with Calculus III** 5 credits (4 lec, 3 lab hrs/wk)

Prerequisite(s): ( MTH252 and PH212 )

Study of the physical properties and interactions of electricity and magnetism. For science and engineering students. Includes laboratory activities. Must be taken in sequence.

This course may be taken 1 time for credit.

Course classification: LDC

## **PH280 CWE: Physics** 1-12 credits (3 lab hrs/wk/cr)

Prerequisite(s): Instructor consent

Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.

This course may be taken 12 times for credit.

Course classification: LDC