

# PHYSICS (PHYSICS)

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## **PHYSICS 120-PP Order of Magnitude: Solving Big Problems with Simple Reasoning (1 Unit)**

NPEP course.

## **PHYSICS 130-A College Physics I (1 Unit)**

First quarter of a three-quarter algebra-based physics course with lecture and laboratory. Physics is the most basic of the sciences, dealing with the behavior and structure of matter. Lectures and labs illustrate physical principles: mechanics, motion, momentum and energy, and fluids.

Continues in winter and spring quarters as PHYSICS 130-B, PHYSICS 130-C. Must be taken concurrently with PHYSICS 131-A lab.

**Prerequisite:** college algebra or higher college math course.

## **PHYSICS 130-B College Physics II (1 Unit)**

Continuation of PHYSICS 130-A algebra-based physics with lecture and laboratory; the sequence concludes with PHYSICS 130-C in the spring quarter. Harnessing the forces of electrical power; how they have altered the way we live and perceive ourselves in the universe. Lecture demonstrations illustrate physical principles: electricity and magnetism, DC and AC circuits. Must be taken concurrently with PHYSICS 131-B lab.

**Prerequisite:** PHYSICS 130-A or equivalent course.

## **PHYSICS 130-C College Physics III (1 Unit)**

Continuation of PHYSICS 130-A, PHYSICS 130-B. Wave motion, optics, and introduction to the basic concepts of modern physics including quantum mechanics, relativity, and atomic physics. Focus on conceptual understanding of basic physical principles and their real-world applications. Demonstration experiments will be used to illustrate physical phenomena and concepts. Must be taken concurrently with PHYSICS 131-C lab.

**Prerequisite:** PHYSICS 130-A, PHYSICS 130-B or equivalent course.

## **PHYSICS 131-A Physics Laboratory I (0.34 Unit)**

Laboratory course associated with PHYSICS 130-A; must be taken concurrently. Credit for this course is .34 units.

## **PHYSICS 131-B Physics Laboratory II (0.34 Unit)**

Laboratory course associated with PHYSICS 130-B; must be taken concurrently. Credit for this course is .34 units.

## **PHYSICS 131-C Physics Laboratory III (0.34 Unit)**

Laboratory course associated with PHYSICS 130-C; must be taken concurrently. Credit for this course is .34 units.

## **PHYSICS 132-A College Physics (1 Unit)**

NPEP course.

## **PHYSICS 399-CN Independent Study (1 Unit)**

## **PHYSICS 399-PP Physics (1 Unit)**