

# Physics (PHSX)

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## Courses

### **PHSX 105 Fundamentals of Physical Science w/Lab**

Credits: 4 (3 Lecture, 1 Lab)

Term: (F, S, Su)

Core Class: Natural Science

This course is an introduction to the fundamental behavior of energy and matter. It is divided into two sections: physics and chemistry. Topics discussed in the physics portion include: scientific measurement; motion; work and energy; heat and temperature; and waves (including sound and light). Topics discussed in the chemistry portion include: atomic structure; the periodic table of elements; chemical bonding and nomenclature; chemical formulas and equations; and solutions. Several lab experiments relating to some of these topics will be performed. No prior work in physics or chemistry is assumed for this course, although in order to have the greatest success in this course, it is highly recommended that students possess strong algebra skills.

### **PHSX 205 College Physics I w/Lab**

Credits: 4 (3 Lecture, 1 Lab)

Terms: (S)

Prerequisite: High school trigonometry, M 121 with C- or higher, or qualifying placement score within the past 5 years

Core Class: Natural Science

First semester of sequence. Topics include kinematics and dynamics of linear and rotational motion, work and energy, impulse and momentum, and fluids. Students will not receive credit for this course if they have previously passed PHSX 220.

### **PHSX 220 Physics I w/Lab**

Credits: 4 (3 Lecture, 1 Lab)

Terms: (F)

Prerequisite OR Corequisite: M 171 or qualifying placement score within the past 5 years

Core Class: Natural Science

First semester of a three-semester sequence primarily for engineering and physical science students. Covers topics in mechanics (such as motion, Newton's laws, conservation laws, work, energy, systems of particles, and rotational motion) and in mechanical waves (such as oscillations, wave motion, sound, and superposition).