

Physics Courses

PHY 104 Introductory Astronomy (4 credits)

An in-depth survey of the universe beyond Earth. The course includes: a) observation of planets, moons, stars, and galaxies; b) physical description of their properties and motions, and c) explanations of some features of their properties and motions as provided by basic laws of physics. Three hours of class and one laboratory session per week, plus observation sessions, held mostly at night. Some high school level algebra is needed. Students must have taken the Math Placement Test before enrolling in the course.

PHY 201 College Physics I (4 credits)

Basic concepts in the fields of mechanics, sound, and heat. Three hours of lecture and three hours of laboratory per week. Prerequisite: an average background in high school mathematics will be needed.

PHY 202 College Physics II (4 credits)

Basic concepts in electricity, magnetism, and light, plus a brief introduction to modern physics. Three hours of lecture and three hours of laboratory per week. Prerequisite: PHY 201.

PHY 211 General Physics I (4 credits)

The fundamental laws of mechanics, sound and heat presented at a level appropriate for students planning careers in science or engineering. Three hours of lecture and three hours of laboratory per week. Prerequisite: MAT 221.

PHY 212 General Physics II (4 credits)

The basic principles of electricity, magnetism, and optics. Presented at a level appropriate for science and 3-2 engineering students. Three hours of lecture and three hours of laboratory per week. Prerequisites: PHY 211 and MAT 222.

PHY 305 Analytical Mechanics (3 credits)

Development of mathematical skills and deeper insight into classical mechanics are obtained through the study of the dynamics of particles and rigid bodies. Harmonic motion and motion in central force fields are among the topics considered. Prerequisites: PHY 211 and MAT 310, or permission of the instructor.