

PHYSICS (PHY)

PHY-1001 Physics and the Modern World (3 Credits)

This course is designed for non-science majors who desire a basic, practical understanding of physics. Subject areas include Newtonian physics, fluids and heat, electricity and magnetism, wave motion, optics, the atom and relativity. Contemporary issues of technology using physics are discussed, such as designing efficient, inexpensive computers, using charge-coupled devices (CCDs) in camcorders, television and medical imaging. Two lectures and two hours of laboratory each week. (Integrated class) Lab fee.

Fulfills General Education Requirement: NPW

Typically offered: All Sessions

PHY-2001 General Physics I (3 Credits)

Requisite(s): MAT-1107 or Higher (except MAT-2301),PHY-2001L

This course serves as an introduction to college-level-algebra-based physics and provides students with fundamental knowledge of physical processes. The course begins with the Laws of Motion and an investigation of dynamics. It then moves to a consideration of energy and the application of thermodynamic principles.

Typically offered: All Sessions

PHY-2001L General Physics I Laboratory (1 Credit)

Requisite(s): MAT-1107 or Higher (except MAT-2301),PHY-2001

This course is a co-requisite laboratory experience to complement PHY-2001. Students will conduct experiments that investigate the fundamental laws and concepts of motion and dynamic processes. Students will further investigate and apply the laws of thermodynamics. This is a 2-hour lab.

Typically offered: Fall Only

PHY-2002 General Physics II (3 Credits)

Requisite(s): PHY-2001,PHY-2001L,PHY-2002L

This course is a continuation of PHY 2001. Students will be introduced to electricity, magnetism, and wave behavior. An emphasis is placed on quantitative methods.

Typically offered: All Sessions

PHY-2002L General Physics II Laboratory (1 Credit)

Requisite(s): PHY-2001,PHY-2001L,PHY-2002

This course is a corequisite laboratory experience to complement PHY-2002. Students will conduct experiments that investigate the fundamental laws and concepts of sound, light, electricity, and magnetism. This is a 2-hour lab.

PHY-4995 Independent Study in Physics (1-4 Credits)

Requisite(s): #, Take 96 credits;

Individual research in an approved area. Library research, conferences, report, or special project. Approval of the department Chairperson is required.

Typically offered: As Needed