PHYSICS (PHYS)

PHYS 105 Introduction to Physical Science 3
A study of the major areas of physical science, physics, astronomy, geology, meterology, some chemistry. The main emphasis is in physics and how it relates to other sciences. No Prerequisites. Three hours lecture. No laboratory.
Core Category: Natural Science

PHYS 121 Introduction to College Physics (Algebra-Based) 4
This course is the first semester of an algebra-based physics course intended for science majors. It is a lecture based course with a laboratory. The basic objectve is to develop an understanding of the fundamental aspects of kinematics, dynamics, work and the conservation of energy, collisions and the conservation of momentum, rotational motion, and fluids.
Core Category: Mathematics, Natural Science
Corequisites: PHYS 121L

PHYS 121L Introduction to College Physics (Algebra-Based) Lab 0
Corequisites: PHYS 121

PHYS 122 Introduction to College Physics (Algebra-Based) 4
This course is the second semester algebra-based physics course intended for science majors. It is a lecture-based course with a laboratory. The basic objective is to develop an understanding of the fundamental aspects of oscillations, waves, sound, optics, electricity and magnetism.
Prerequisites: PHYS 121
Corequisites: PHYS 122L

PHYS 122L Introduction to College Physics (Algebra-Based) Lab 0
Corequisites: PHYS 122

PHYS 130 Special Topics 1-3

PHYS 130A1 SpTop: Supplemental Physics - MCAT Prep 2
This course supplements the traditional introductory calculus-based physics course intended for science and mathematics majors and is designed to help the pre-med student prepare for the MCAT standardized test. A combination of problem solving and the select use of MCAT prep tools will be used to accomplish this goal. In order to prepare the student for the MCAT some time will be focused on reviewing material from PHYS 151 and PHYS 152. Additional topics include thermodynamics and some modern physics.
Prerequisites: PHYS 151 and PHYS 152

PHYS 130A2 Sp Top: Supplemental Physics - Physics For Scientists, Engineers, and Mathematicians 2
This course supplements the traditional introductory calculus-based physics course intended for science and mathematics majors. It is designed to help the engineering student prepare for their more advanced classes and any science student who plans to pursue graduate school and a career in science, engineering or applied mathematics as they will be applying the laws of physics to their discipline as they progress in their studies. Additional topics include thermodynamics and some modern physics and any topics not covered in PHYS 151/152.
Prerequisites: PHYS 151 and PHYS 152

PHYS 151 Introduction to University Physics (Calculus-Based) 4
This course is the first semester of a calculus-based physics course intended for science, mathematics, and engineering majors. It is a leacture based course with a laboratory. The basic objective is to develop an understanding of the fundamental aspects of kinematics, dynamics, work conservation of energy, collisions, momentum, angular momentum, rotational motion, fluids, and gravity.
Core Category: Natural Science, Mathematics
Corequisites: PHYS 151L

PHYS 151L Introduction to University Physics (Calculus-Based) Lab 0
Corequisites: PHYS 151

PHYS 152 Introduction to University Physics (Calculus-Based) 4
This course is the second semester of a calculus-based physics course intended for science, mathematics, and engineering majors. The basic objective is to develop an understanding of the fundamental aspects of oscillations and wave motion; sound; geometrical optics; electricity; and magnetism.
Prerequisites: PHYS 151
Corequisites: PHYS 152L

PHYS 152L Introduction to University Physics (Calculus-Based) Lab 0
Corequisites: PHYS 152

PHYS 230 Special Topics 1-3

PHYS 330 Special Topics 1-3

PHYS 400 Directed Study 1-4