PHYSICS (PHYS)

PHYS 102 Physical Science (4 credits)
Elementary principles of physics, meteorology, chemistry, geology, and astronomy.
Prerequisite/s: MATH 101
Lab Required.

PHYS 110 Astronomy (4 credits)
This course is an introduction to astronomy, which covers the operations and functions of a telescope, star charting, the solar system, planets, stars and the universe.
Prerequisite/s: MATH 101
Lab Required.

PHYS 211 College Physics I (4 credits)
This is the first semester course in physics for students without a calculus background. The course will cover topics relative to Newton's Laws of Motion. These will include describing motion, falling objects and projectile motion, explaining motion, circular motion, the planets and gravity, energy and oscillations, momentum and impulse, and the rotational motion of solid objects.
Prerequisite/s: MATH 101
Lab Required.

PHYS 212 College Physics II (4 credits)
This is the second semester course in physics for students without a calculus background. The course will cover topics in fluids and heat, heat engines and thermodynamics, electricity and magnetism, wave motion and optics, radiation, atomic spectra, quantum mechanics, nuclear chemistry and relativity.
Prerequisite/s: PHYS 211
Lab Required.

PHYS 251 University Physics I (4 credits)
This course will cover the basic principles and concepts of Newtonian mechanics. Topics will include translational and rotational motion, work, energy, power, momentum, conservation of energy and momentum, periodic motion, waves, sound, heat, and thermodynamics.
Prerequisite/s: MATH 165
Lab Required.

PHYS 252 University Physics II (4 credits)
This course will cover the basic principles and concepts of electricity, magnetism and modern physics. Topics will include electricity, circuits, magnetism, electromagnetic waves, optics, relativity, photons and matter, nuclear physics, quarks, leptons and the Big Bang.
Prerequisite/s: PHYS 251
Corequisite/s: ENGR 222