PHYSICS (PHY)

Course Descriptions

PHY 111. College Physics I (MOTR PHYS 150L). 4 Credit Hours.
College Physics I is a non-calculus introduction to physical theories including kinematics, mechanics, work and energy, gravity, momentum, waves, heat, and thermodynamics. The course is the first semester of a two-semester algebra-level physics sequence.
Prerequisites: MTH 160 (or MTH 160S) with a minimum grade of "C" and Reading Proficiency

PHY 112. College Physics II. 4 Credit Hours.
This course is the second semester of a two-semester non-calculus physics sequence. The entire sequence covers topics in mechanics, heat, sound, electricity, magnetism, optics and modern physics. Additional lab hours required.
Prerequisites: PHY 111 with a minimum grade of "C" and Reading Proficiency

PHY 122. Engineering Physics I (MOTR PHYS 200L). 5 Credit Hours.
Engineering Physics I covers topics in units, vectors, motion in one dimension and two dimensions, Newton's Laws of Motion, forces, work, kinetic energy, potential energy, momentum, collisions, rotational motion, fluid, gravitation, temperature, and heat. The course is the first semester of a two-semester calculus-level physics sequence.
Prerequisites: MTH 210 with a minimum grade of "C" and Reading Proficiency

PHY 223. Engineering Physics II. 5 Credit Hours.
Engineering Physics II covers topics in electric charge, electric fields, electric potential, electric potential energy, current, voltage, resistance, electric circuits, electric power, electrical energy, magnetic fields, electric motor, electric generator, light, waves, mirrors, and lenses. The course is the second semester of a two-semester calculus-level physics sequence.
Prerequisites: PHY 122 and MTH 220 with a minimum grades of "C" and Reading Proficiency