PHYSICS (PHY)

PHY 126 Applied Physics & Lab
3 Class Hours, 2 Lab Hours, 4 Quarter Credit Hours
Prerequisites: MA 110 or MA 100 or MA 109 or MA 105
This course studies the applications of fundamental concepts of physics. The topics covered include: the motion of objects, the forces that cause motion, velocity, acceleration, Newton's Laws, torques, work, power, and energy. The laboratory component is designed to give students the opportunity to have hands-on experience with the fundamental concepts of physics studied in the theory portion of the course.

PHY 200 Physics I & Lab
3 Class Hours, 2 Lab Hours, 4 Quarter Credit Hours
Prerequisites: MA 125
This course is a non-calculus approach to the study of fundamental physics and includes kinematics and dynamics of bodies, velocity, acceleration, and Newton's laws of motion, forces in equilibrium, concurrent and non-concurrent forces, work, power, energy, and torque. Labs are performed within the course to reinforce concepts.

PHY 300 Physics II & Lab
3 Class Hours, 2 Lab Hours, 4 Quarter Credit Hours
Prerequisites: MA 125 and (PHY 200 or PHY 126)
This is an algebraic approach to a second course in physics. The topics include centripetal force, temperature, heat energy, mechanical waves, sound, electrostatics, and basic circuit elements. The laboratory component is designed to give students the opportunity to have hands-on experience with the fundamental concepts of physics studied in the theory portion of the course. Laboratory experiments will be performed to reinforce these concepts.

PHY 330 Engineering Physics I with Lab
5 Class Hours, 2 Lab Hours, 6 Quarter Credit Hours
Prerequisites: MA 330 (may be taken concurrently)
Course is currently in development.

PHY 340 Engineering Physics II w Lab
5 Class Hours, 2 Lab Hours, 6 Quarter Credit Hours
Prerequisites: MA 330 and PHY 330
Course is currently in development.