

PHYSICS (PHYS)

PHYS 1114 – General Physics I 4 Credits

Class 3, Lab 2. *Prerequisites: MATH 1513 – College Algebra (or equivalent) and MATH 1613 – Trigonometry (or equivalent) or permission of instructor.* Introductory noncalculus physics including topics from mechanics, heat, and sound.

PHYS 1214 – General Physics II 4 Credits

Class 3, Lab 2. *Prerequisite: PHYS 1114 General Physics I.* A continuation of the general physics sequence, including topics from electricity, magnetism, light, and atomic physics.

PHYS 2014 – Engineering Physics I..... 4 Credits

Class 3, Lab 2. *Prerequisite: MATH 2215 - Calculus I or concurrent enrollment.* General physics for engineers and science majors. Vectors, particle kinematics and dynamics, work and energy, impulse and momentum, rotational kinematics and dynamics, equilibrium, oscillations, gravitation, fluid mechanics, sound waves are the topics covered in this course.

PHYS 2114 – Engineering Physics II 4 Credits

Class 3, Lab 2. *Prerequisite: PHYS 2014 Engineering Physics I.* Temperature, heat, electricity, magnetism, light and optics are included in this course.

PHYS 2300 – Special Topics 1-3 Credits

Prerequisite: Permission of the instructor. The study and/or analysis of a selected topic in Physics. Individual and/or group study. May be repeated with a different topic.