

COURSES

PDF PHYSICS

PHYS180L Physics for Scientists and Engineers Lab I 1 Credit

Prerequisites: MATH181 ; Corequisites: PHYS180
Explores vectors, rectilinear motion, particle dynamics, work and energy, momentum, rotational mechanics, oscillations, gravitation, fluids, wave properties and sound. Students must co-enroll in both lecture and lab to receive credit.

PHYS181L Physics for Science and Engineers Lab II 1 Credit

Prerequisites: MATH182 & PHYS180 ; Corequisites: PHYS181
Explores electric fields, potential, current, dielectrics, circuits, magnetic fields, electromagnetic oscillations, thermodynamics and kinetic theory of gases. Students must co-enroll in both lecture and lab to receive credit.

PHYS182L Physics for Scientists and Engineers Lab III 1 Credit

Prerequisites: MATH182 & PHYS181; Corequisites: PHYS182
Explores light, optical systems, relativity, wave aspects of particles, quantum mechanics, statistical mechanics, semiconductors, radioactivity, nuclear physics and particles. Students must co-enroll in both lecture and lab to receive credit.

PHYS100 Introductory Physics 3 Credits

Prerequisites: MATH120, MATH126 or higher
Introduces students to a broad range of concepts in physics from basic classical mechanics to modern physics. Students will conduct at least four experiments with many demonstrations performed throughout the course.

PHYS151 General Physics I 4 Credits

Prerequisites: MATH126 & MATH127, MATH128 or equivalent
Provides a course in physics for students in arts and science, medicine and dentistry, and agriculture. Emphasis is on mechanics, heat, and sound.

PHYS152 General Physics II 4 Credits

Prerequisites: PHYS151
Emphasizes light, electricity, magnetism and nuclear physics.

PHYS180 Physics for Scientists and Engineers I 3 Credits

Prerequisite: MATH 181. Corequisite: PHYS 180L.
Explores vectors, rectilinear motion, particle dynamics, work and energy, momentum, rotational mechanics, oscillations, gravitation, fluids, wave properties and sound. Students must co-enroll in both lecture and lab to receive credit.

PHYS181 Physics for Scientists and Engineers II 3 Credits

Prerequisites: MATH 182 AND PHYS 180. Corequisite: PHYS 181L.
Explores electric fields, potential, current, dielectrics, circuits, magnetic fields, electromagnetic oscillations, thermodynamics and kinetic theory of gases. Students must co-enroll in both lecture and lab to receive credit.

PHYS182 Physics for Scientists and Engineers III 3 Credits

Prerequisite: PHYS 181. Corequisite: PHYS 182L.
Explores light, optical systems,

relativity, wave aspects of particles, quantum mechanics, statistical mechanics, semiconductors, radioactivity, nuclear physics and particles. Students must co-enroll in both lecture and lab to receive credit.

PHYS293 Directed Study 1-3 Credits

Prerequisites: PHYS151 or PHYS180
Provides individual study conducted under the direction of a faculty member. May be repeated for up to six credits.