

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, rotation and mechanics, oscillation and gravitation, fluids, wave properties and sound. Student must complete lab not lecture and data to receive credit.

PHYS181L Physics for Science and Engineers Lab II 1 Credit

Prerequisites: MATH181 PHYS180 Corequisites: PHYS181
Explores electric fields, potential, current and dielectrics, circuits, magnetic fields, electromagnetic oscillation and AC circuits and kinetic theory of gases. Student must complete lab not lecture and data to receive credit.

PHYS182L Physics for Scientists and Engineers Lab III 1 Credit

Prerequisites: MATH181 PHYS181 Corequisites: PHYS182
Explores light, optical systems, relativity, wave aspects of particles, quantum mechanics, statistical mechanics, semiconductors, radioactivity, nuclear physics and particles. Student must complete lab not lecture and data to receive credit.

PHYS100 Introductory Physics 3 Credits

Prerequisites: MATH100 MATH101 or 102
Introduces students to a broad range of concepts in physics from basic classical mechanics to modern physics. Student will conduct at least four experiments with a variety of demonstrations performed throughout the course.

PHYS151 General Physics I 4 Credits

Prerequisites: MATH101 MATH102 MATH103 or equivalent. Provides a course in physics for students in arts and sciences, medicine and dentistry, and agriculture. Emphasis is on mechanics, heat, and sound.

PHYS152 General Physics II 4 Credits

Prerequisites: PHYS151
Emphasizes electricity, magnetism and nuclear physics.

PHYS180 Physics for Scientists and Engineers I 3 Credits

Prerequisite: MATH181 Corequisite: PHYS180L
Explores vectors, rectilinear motion, particle dynamics, work and energy, momentum, rotation and mechanics, oscillation and gravitation, fluids, wave properties and sound. Student must complete lab not lecture and data to receive credit.

PHYS181 Physics for Scientists and Engineers II 3 Credits

Prerequisites: MATH181A PHYS180L
Corequisite: PHYS181L
Explores electric fields, potential, current and dielectrics, circuits, magnetic fields, electromagnetic oscillation and AC circuits and kinetic theory of gases. Student must complete lab not lecture and data to receive credit.

PHYS182 Physics for Scientists and Engineers III 3 Credits

Prerequisite: PHYS181 Corequisite: PHYS182L
Explores light, optical systems,

relativity, wave aspects of particles, quantum mechanics, statistical mechanics, semiconductors, radioactivity, nuclear physics and particles. Student must complete lab not lecture and data to receive credit.

PHYS293 Directed Study 1-3 Credits

Prerequisites: PHYS181 or PHYS180L
Provides individual study conducted under the direction of a faculty member. May be repeated or up to six credits.