

PHYSICS (PHYS)

Physics (PHYS)

PHYS 214 Undergraduate Research I 2 Credits

Prepares students to successfully complete their own scientific research project by introducing the use of the scientific method, ethics, research methods, proposal writing, and presentation techniques. This course also introduces students to research opportunities in the South Sound region.

Prerequisite: Prerequisite: Completion of or concurrent enrollment in CHEM& 161 or PHYS& 114 or PHYS& 221 or BIOL& 211 or instructor's permission.

PHYS 215 Undergraduate Research II 1 Credit

Prepares students to successfully complete their own scientific research project by introducing the use of the scientific method, ethics, research methods, proposal writing, and presentation techniques. This course also introduces students to research opportunities in South Sound region.

Prerequisite: Prerequisite: BIOL 214 or CHEM 214 or PHYS 214 or instructor's permission.

PHYS 216 Undergraduate Research III 2 Credits

Provides a framework for students to carry out their own scientific research project in collaboration with peers and mentors.

Prerequisite: Prerequisite: BIOL 214 or CHEM 214 or PHYS 214 or instructor's permission.

Physics (CCN) (PHYS&)

PHYS& 110 Physics for Non-Science Majors w/Lab 5 Credits

Introduces non-science majors to the approaches and theories used in physics and their relationship to the world around us. Mathematics involved is limited to arithmetic and algebraic reasoning.

Prerequisite: Prerequisite: Eligible for MATH 96

Distribution Requirements: Natural Science, Natural Science with Lab

PHYS& 114 General Physics I w/Lab 5 Credits

Introduces fundamental principles and applications of motion, gravitation, and energy. This is the first in the non-engineering physics sequence.

Prerequisite: Prerequisite: Appropriate placement or a C or better in MATH 098 or MATH 099 or equivalent.

Distribution Requirements: Natural Science, Natural Science with Lab

PHYS& 115 General Physics II w/Lab 5 Credits

Introduces fundamental principles and applications of physics relating to fluid statics and dynamics, heat and thermodynamics, oscillations and waves.

Prerequisite: Prerequisite: PHYS& 114 with a "C" or better or instructor's permission.

Distribution Requirements: Natural Science with Lab

PHYS& 116 General Physics III w/Lab 5 Credits

Introduces fundamental principles and applications of physics relating to electricity and magnetism, light, and optics.

Prerequisite: Prerequisite: PHYS& 114 with a "C" or better or instructor's permission.

Distribution Requirements: Natural Science with Lab

PHYS& 221 Engineering Physics I w/Lab 5 Credits

Introduces fundamental principles and applications of motion, gravitation, and energy, with calculus. This is the first in the engineering physics sequence.

Prerequisite: Prerequisite: MATH& 151 or concurrent enrollment, or instructor's permission.

Distribution Requirements: Natural Science, Natural Science with Lab

PHYS& 222 Engineering Physics II w/Lab 5 Credits

Introduces fundamental principles and applications of physics relating to fluid statics and dynamics, heat and thermodynamics, oscillations and waves, with calculus.

Prerequisite: Prerequisite: PHYS& 221 with a C or better and MATH& 152 or concurrent enrollment, or instructor's permission.

Distribution Requirements: Natural Science, Natural Science with Lab

PHYS& 223 Engineering Physics III w/Lab 5 Credits

Introduces fundamental principles and applications of physics, with calculus. Topics include electricity and magnetism, light, and optics.

Prerequisite: Prerequisite: PHYS& 221 with a C or better, and MATH& 152 or concurrent enrollment, or instructor's permission.

Distribution Requirements: Natural Science, Natural Science with Lab