

PHYSICS

gmiller@swccd.edu

Jeffrey Veal, Ph.D.

jveal@swccd.edu

School of Mathematics, Science, and Engineering

Dean: Silvia Nadalet, Ed.D.

Department Chair: Grant Miller, M.S.

Office: 60-125 (619) 482-6459

School/Department Location: www.swccd.edu/cvlocation

Map: <https://goo.gl/maps/C4E3PnKsdU92> (<https://goo.gl/maps/C4E3PnKsdU92/>)

General Description

Physics is the most fundamental science, providing a foundation for understanding in nearly all fields of science and technology. In a broad sense, physics is concerned with the study of energy, space, matter, the interactions between matter, and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed-matter physics.

Career Options

A few career options in physics require an associate degree, some require a bachelor's degree, and most require a graduate-level degree: research assistant, laboratory technician, high school teacher, college or university professor, technical writer, and research or applied physicist in a broad ranges of fields including acoustics, atmospheric physics, astrophysics, astronomy, atomic and molecular physics, electricity and magnetism, electronic instrumentation, energy conservation, geophysics, health physics, mechanics, heat or light physics, medical imaging, nuclear medicine, solar energy, nuclear physics, engineering, and scientific computing. Physicists typically work at colleges and universities, at national laboratories and other government agencies, and in a wide variety of commercial industries.

Degree/Certificate Options	Major Code
Associate Degree for Transfer (ADT)	
Physics (SB 1440) (http://catalog.swccd.edu/associate-degree-certificate-programs/physics/physics-ast/)	01685
Associate in Science Degree: Transfer Preparation	
Physics (http://catalog.swccd.edu/associate-degree-certificate-programs/physics/physics-as/)	01680

Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.

Websites for physics majors:

SDSU: <http://physics.sdsu.edu/>

UCSD: <http://physics.ucsd.edu/>

CSU, San Marcos: <http://physics.csusm.edu/>

Articulation: <http://assist.org>

Faculty

Hok Lee, Ph.D.

hlee@swccd.edu

Grant Miller, M.S.