

PHYSICS



Associate Degree for Transfer

A Degree with a Guarantee.SM

Student Transfer Achievement Reform (STAR) Act (SB1440)

Associate in Science

Transfer Preparation* (Major Code: 01685)

Physicists are engaged in applying the fundamental principles of science to problems ranging from understanding life processes to exploring the universe. Specializations include mechanics, heat, optics, acoustics, electrodynamics, astrophysics, atomic physics, biophysics, and geophysics.

Program Student Learning Outcome

- Develop mathematical skills, acquire physics knowledge, and practice applying these skills and knowledge in physical situations.

The following is required for all AA-T or AS-T degrees:

- Completion of minimum 60 semester or 90 quarter units of transferable degree applicable courses.
- Minimum overall grade point average (GPA) of at least 2.0 in all transferable coursework, including a minimum "C" grade (or "Pass") required in each course for Cal-GETC.
- Minimum 18 semester or 27 quarter units in major or area of emphasis with a minimum grade of "C" (or "Pass") for each course in the major.
- Completion of the California General Education Transfer Curriculum (Cal-GETC) pattern.

SDSU Note: San Diego State University (SDSU) accepts this ADT for transferring into Physics BS (General) and Physics (Modern Optics) BS majors. Check SDSU Transfer Pathways (<https://admissions.sdsu.edu/transfers/transfer-pathways/>) and consult with an academic counselor.

Code	Title	Units
Required Core		
PHYS 270	PRINCIPLES OF PHYSICS I	4
PHYS 271	PRINCIPLES OF PHYSICS LABORATORY I	1
PHYS 272	PRINCIPLES OF PHYSICS II	4
PHYS 273	PRINCIPLES OF PHYSICS LABORATORY II	1
PHYS 274	PRINCIPLES OF PHYSICS III	4
PHYS 275	Principles of Physics Laboratory III	1
MATH 250	ANALYTIC GEOMETRY AND CALCULUS I	5
MATH 251	ANALYTIC GEOMETRY AND CALCULUS II	4
MATH 252	ANALYTIC GEOMETRY AND CALCULUS III	4
Total Units		28

* Students planning to transfer to a four-year college or university should complete courses specific to the transfer institution of choice. University requirements vary from institution to institution and are subject to change. Therefore, it is important to verify transfer major preparation and general education requirements through consultation with a counselor in either the Counseling Center or Career and Transfer Connections. See catalog Transfer Courses Information (<http://catalog.swccd.edu/student-success-support-program/student-services-and-college-services/other-services/transfer-courses/>) section for further information.