

PHYSICS



**Associate Degree
for Transfer**
A Degree with a Guarantee.SM

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 Transfer Center. 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.

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 CSU transferable coursework.
- 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 State University General Education (CSU GE) Breadth pattern or the Intersegmental General Education Transfer Curriculum (IGETC) pattern for CSU. For more information, refer to the catalog section, "Certificate of Achievement (<http://catalog.swccd.edu/certificates-certifications-degrees-csuuc-requirements/certificates/certificate-achievement/>)" under Graduation, Certificates, and Degree Requirements.

Code	Title	Units
Required Core		
PHYS 270	PRINCIPLES OF PHYSICS I	3
PHYS 271	PRINCIPLES OF PHYSICS LABORATORY I	1
PHYS 272	PRINCIPLES OF PHYSICS II	3
PHYS 273	PRINCIPLES OF PHYSICS LABORATORY II	1
PHYS 274	PRINCIPLES OF PHYSICS III	3
PHYS 275	MODERN PHYSICS AND PRINCIPLES OF PHYSICS LABORATORY III	2
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		26

* Students planning to transfer to a four-year college or university should complete courses specific to the transfer institution of choice.