

PHYSICS – ASSOCIATE IN SCIENCE DEGREE FOR TRANSFER TO CSU

Top Code:

1902.00

The Associate in Science in Physics for Transfer provides a foundation in Physics necessary for continued training at the upper division level for Physics majors. It also provides a foundation for majors in physical science, math, engineering, and computer science. It is a starting point for students who are preparing for careers in education, geoscience research, and government, where scientific and technical skills are in great demand.

PLEASE NOTE: The courses that universities and colleges require for transfer vary. When selecting courses for transfer purposes, students should consult with Counseling Services to determine the particular transfer requirements of specific transfer institutions.

Associate Degree for Transfer Requirements

- 60 semester or 90 quarter CSU-transferable units.
- the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
- obtainment of a minimum grade point average (GPA) of 2.0.
- earn a grade of C or better or P if course is graded pass/no-pass in all courses required for the major or area of emphasis.

Program Outcomes

- Qualitatively analyze problems in physics with proper understanding of relevant concepts.
- Quantitatively analyze problems in physics using appropriate problem-solving techniques.
- Employ proper experimental techniques to investigate physical phenomena.

Associate in Science in Physics for Transfer Degree

Code	Title	Units
Required Courses		
PHYS 008A	PHYSICS FOR SCIENTISTS AND ENGINEERS I: MECHANICS	5
PHYS 008B	PHYSICS FOR SCIENTISTS AND ENGINEERS II: WAVES, ELECTRICITY & MAGNETISM	5
PHYS 008C	PHYSICS FOR SCIENTISTS AND ENGINEERS III: THERMODYNAMICS, OPTICS, AND MODERN PHYSICS	5
MATH 005A	SINGLE VARIABLE CALCULUS I	5

or MATH 005AHONORS SINGLE VARIABLE CALCULUS I		
MATH 005B	SINGLE VARIABLE CALCULUS II	5
or MATH 005BHONORS SINGLE VARIABLE CALCULUS II		
MATH 005C	MULTIVARIABLE CALCULUS	5
or MATH 005CHONORS MULTIVARIABLE CALCULUS		
Required Subtotal		30
CSU General Education or IGETC CSU Pattern		37-39
Transferable Electives (as needed to reach 60 transferable units)		
Degree Total		60

Visit the Program Mapper (<https://pasadena-city.programmapper.ws/academics/interest-clusters/35afad1b-8598-4ecf-a320-0ed4834a7df8/programs/0ec6df98-9f92-550a-dd1b-7175f60b46e5/>) for a suggested sequence of courses.

General Education Requirements for the Associate in Science Degree for Transfer

- General Information (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/>)
- CSU Breadth (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/#csubreadthtext>)
- IGETC (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/#igetctext>)