

# Associate in Science in Physics for Transfer Degree:

The Associate in Science in Physics for Transfer Degree is intended for students who plan to complete a bachelor's degree in Physics or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree.

## Program Learning Outcomes:

Students who complete the Physics for Transfer Program will be able to:

- Utilize proper physics concepts and the relations among them to analyze problems qualitatively and quantitatively.
- Critically apply the principle of conservation of energy in the study of motions.
- Compose laboratory reports that describe the theory and experimental procedures, record and analyze data, and present conclusions and discussions.
- Write solutions to physics problems that identify the assumptions and input.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

## Award Notes:

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of "C" or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

Courses Required for the Major:		Units
PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	5
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4
<b>Total Units = 28</b>		

**Recommended Electives:** Chemistry 200, 200L, 201, 201L.

**Electives as needed to meet maximum of 60 units required for the degree.**