



## Associate Degree for Transfer<sup>SM</sup>

# PHYSICS FOR TRANSFER (AS-T)



The Associate in Science in Physics for Transfer (AS-T) degree is designed to facilitate transfer to a California State University in keeping with SB 1440. This degree reflects the Transfer Model Curriculum (TMC) supported by the Statewide Academic Senate. A total of 28 units are required to fulfill the major portion of this degree. Students must also complete the California State University (CSU) General Education Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) (see the "General Education Requirements and Transfer Information" section of the catalog). Students planning to transfer to SDSU should consult with a counselor.

The following requirements must be met to be awarded an Associate in Science in Physics for Transfer (AS-T) degree:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
  - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirement.
  - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0. Students are also required to earn a "C" grade or higher or "Pass" in all courses required for the major.

The Associate of Science in Physics for Transfer Degree Program offers a secure foundation for further study in physics or engineering. The primary emphasis of the program is to prepare students for transfer to four-year institutions as science or engineering majors. Students are asked to consult the catalog of the transfer institution for specific requirements.

The Program-level Student Learning Outcomes (PSLOs) below are outcomes that students will achieve after completing specific degree / certificate requirements in this program. Students will apply the fundamental principles of physics to real world or idealized situations.

## Associate Degree Major Requirements

**Note: All courses must be completed with a letter grade of "C" or higher or "Pass."**

Code	Title	Units
<b>Required Core</b>		
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5

PHYC-203	Light, Optics, and Modern Physics	5
MATH-180	Analytic Geometry and Calculus I	5
MATH-280	Analytic Geometry and Calculus II	4
MATH-281	Multivariable Calculus	4
<b>Units in the major</b>		<b>28</b>
Plus General Education Requirements (CSU GE or IGETC) ( <a href="https://catalog.gcccd.edu/grossmont/admission-information/general-education-transfer/">https://catalog.gcccd.edu/grossmont/admission-information/general-education-transfer/</a> )		37-39
<b>Total Units</b>		<b>60</b>

Complete transferable units as needed to reach 60.

Students completing IGETC may be awarded the degree, but they must complete a course from Area 1C: Oral Communication to meet CSU admission requirements.