

Physics

Award Type: Associate in Science for Transfer

The associate in science in physics for transfer program prepares students to begin upper-division work leading to a baccalaureate degree in physics or engineering physics. The Associate in Science in Physics for Transfer will specifically prepare students for further studies toward a California State University (CSU) baccalaureate degree in Physics. Associate Degree for Transfer Requirements Completion of 60 semester units that are eligible for transfer to the California State University, including the following: A. The completion of the Intersegmental General Education Transfer Curriculum (IGETC). [The following Allan Hancock College graduation requirements will not be required: Health and Wellness, Multicultural Gender Studies and Allan Hancock College General Education. B. A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district. C. Obtainment of a minimum grade point average of 2.0 with all courses in the major being completed with a grade of "C" or better.

The graduate of the Associate in Science for Transfer in Physics will:

- Demonstrate knowledge of the fundamental laws of physics and physical terminology.
- Apply physical principles to solve a variety of simple problems.
- Demonstrate the proper use of physical apparatus for testing and observing physical theories.
- Write scientific reports on a given experiment indicating the significance of the experiment and the degree to which the results verify a principle or law.
- Analyze complex problems to identify single principle components and synthesize from multiple concepts.

Program Requirements

A major of 24 units is required for the degree. Required core courses (24 units):

Course Number	Course Title	Units
MATH 181	Calculus 1	4.0
MATH 182	Calculus 2	4.0
MATH 183	Multivariable Calculus	4.0
PHYS 161	Engineering Physics 1	4.0
PHYS 162	Engineering Physics 2	4.0
PHYS 163	Engineering Physics 3	4.0

General Education

Complete one of the following:

a) CSU General Education Breadth - 39 units

or

b) Intersegmental General Education Transfer Curriculum (IGETC) - 37 units

Double counting:

Number of units that may be double counted for the major and CSU GE or IGETC - 7 units

Select additional CSU transferrable units as needed to achieve 60 units required for the degree.

Visit [myHancock](#) and select the [DegreeWorks](#) icon to view CSU or IGETC general education and transferrable courses.