

Associate in Science in Physics for Transfer

Complete the following program of study. (Major C.3664.AS-T) Major requirements (26 units minimum).

A physics student acquiring the Associate in Science in Physics for Transfer (Physics AS-T) degree generally transfers to a four-year institution to complete a bachelor's degree. Physics graduates at the bachelors' level are qualified for a variety of technical positions with government or industry, and they are also well prepared to enter a graduate program in any other science or in engineering. Physics majors are welcomed into professional programs such as law, business, or medicine. Teaching at the high school level with a bachelor's degree or at a two-year college with a masters' degree are additional career options for the physics major. For the physicist who obtains the Ph.D., experimental or theoretical research and/or teaching at the university level or basic research in government or industry are options for gainful employment.

Many four-year colleges and universities offer bachelor's degrees in physics. There are some systems and institutions that offer the advanced degrees in physics. Requirements vary from system to system and from campus to campus for each level of degree. The advice of a counselor and consultation of institutional catalogs for specific information is highly recommended.

Name: _____ **Student ID:** _____ **Date:** _____

Course Overview and Selection

Required Core:

Course	Course Description	Units	C - ID	Completed	In Progress	Planned
PHYS 4A	Physics for Scientists and Engineers	4	PHYS 205 or PHYS 205S			
PHYS 4B	Physics for Scientists and Engineers	4	PHYS 210 or PHYS 200S			
PHYS 4C	Physics for Scientists and Engineers	4	PHYS 215 or PHYS 200S			
MATH 5A	Math Analysis I	5	MATH 210, 211 or 900S			
MATH 5B	Math Analysis II	4	MATH 220 or 900S			
MATH 6	Math Analysis III	5	MATH 230 or 900S			

Total units for major does not include required general education or pre-requisite courses.

Program Learning Outcome:

1. Apply algebra, trigonometry, and/or first-year calculus to solve physical problems within the topics covered in class.
2. Apply dimensional analysis to determine the units for an unknown quantity or to check the validity of equations.
3. Distinguish between important physical observables when they are measured or calculated.
4. Correctly report the units of an observable when it is measured or calculated.

To obtain the Associate in Science in Physics for Transfer, students must complete the following requirements:

- Completion of 60 semester units or 90 quarter units of degree-applicable courses,
 - Minimum overall grade point average of 2.0,
 - Minimum grade of "C" (or "P") for each course in the major, and
 - Completion of Cal-GETC
- *Students who maintain catalog rights prior to Fall 2025 may use IGETC or CSU-GE Breadth.*
- Courses may double count in the major and Cal-GETC.
 - Certification of either the California State University General Education Breadth (CSU GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC-CSU version) is required. CSU GE- Breadth and IGETC advising sheets are available in Student Services, AC2-133 or online at [CCC GE \(CSU/UC\) GE and Major Sheets](http://www.cccge.org)

To see what CSU campuses accept this degree go to www.icangotocollege.com/transfer-tool

Faculty Advisors: Abbott, Inan.