

PROGRAMS

PHYSICS AS-T

Associate in Science in Physics for Transfer

The Associate in Science in Physics for Transfer (AS-T in Physics) is designed to provide a clear pathway to a CSU institution for students who plan to transfer and complete a CSU major or baccalaureate degree in Physics. California Community College students who are awarded an Associate in Science in Physics for Transfer (AS-T in Physics) are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU institution or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or institutions.

The Associate in Science in Physics for Transfer (AS-T in Physics) provides a foundation in physics and mathematics for students planning to transfer into a baccalaureate program in physics or physics education. Successful completion of the program guarantees the student acceptance to a local California State University to pursue a baccalaureate degree in Physics or a related field. Upon completion of the program, students will understand the principles of physics and be able to apply these theoretical and analytical principles to real world situations.

Program Learning Outcomes

- Students will apply the scientific method to investigate physics problems by collecting and quantitatively analyzing data.
- Students will understand the principles of physics and be able to apply these theoretical and analytical principles to real world situations.

What is an AS-T

The Associate in Science for Transfer (AS-T) is intended for student who plan to transfer and complete a bachelor's degree in a similar major at a CSU campus. Students completing these transfer degrees:

- will earn an Associate's Degree from Mission College;
- are guaranteed admission to a **similar** major at a campus in the CSU system;
- will be prepared to start upper division coursework at the CSU;
- and will not have to complete more than 60 units after transfer.

A complete and up-to-date listing of the similar CSU majors can be found on the <http://www.adegreewithaguarantee.com/>

To earn this AS-T, students must meet the following requirements:

1. Completion of the following major courses with grades of C (or P) or better.
2. Completion of 60 CSU-transferable semester units with a grade point average of at least 2.0; and
3. Certified completion of either the California State University General Education Breadth pattern (CSU GE-B) or the CSU Intersegmental General Education Transfer Curriculum (CSU IGETC).

NOTES:

1. *Completing courses that satisfy CSU's U.S. History, Constitution and American Ideals requirement prior to transfer is highly recommended.*
2. *Requirements here apply to the current catalog year and are subject to change. Visit DegreeWorks in My Mission Portal to view requirements based your catalog year.*

Required Core Courses

MAT 003AH can be taken in lieu of MAT 003A

Code	Class	Units
PHY 004A	Engineering Physics-Mechanics (4.0 Lecture/1.0 Lab)	5.0
PHY 004B	Engineering Physics-Electricity and Magnetism (3.0 Lecture/1.0 Lab)	4.0
PHY 004C	Engineering Physics-Light and Heat (3.0 Lecture/1.0 Lab)	4.0
MAT 003A	Analytic Geometry and Calculus I (5.0 Lecture)	5.0
MAT 003B	Analytic Geometry and Calculus II (5.0 Lecture)	5.0
MAT 004A	Multivariable Calculus (5.0 Lecture)	5.0

Required Units for the Major

	Units
Required units for the major	27.0
GE and electives as needed to reach 60 units.	
Total required units for AS-T	60.0

Career/Transfer Opportunities

Career opportunities include the following: astronomer, architect, chemist, geologist, engineer, physicist, physical scientist, meteorologist and oceanographer.

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