

MATHEMATICS – ASSOCIATE IN SCIENCE DEGREE FOR TRANSFER TO CSU

Top Code: 1701.00

The Associate in Science in Mathematics for Transfer (AS-T) prepares a student for transfer into the CSU system for further study in pure or applied mathematics. Earning a 4-year degree in mathematics prepares students for careers in which mathematical skills are in great demand, such as science, technology, engineering, computer science, business, industry, medicine, education or government.

The goal of this degree is to provide a clear pathway for transfer students applying to the California State University (CSU). Completion of the Associate in Science in Mathematics for Transfer (AS-T) ensures transfer students will complete the lower division general education requirements as well as the articulated lower division major requirements for the bachelor's degree in Mathematics prior to transferring. The Associate in Science Degree in Mathematics for Transfer degree will be awarded upon completion of coursework totaling 60 California State University (CSU) transferable units including the major requirements and the Intersegmental General Education Transfer Curriculum (IGETC-CSU) or California State University General Education (CSUGE) requirements with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better, or P if the course is graded on a P/NP basis.

Program Outcomes

1. Develop critical thinking and problem solving skills.
2. Increase the ability to read, write, and discuss mathematics.
3. Develop an understanding of the usefulness of mathematics to other disciplines and life.

Associate in Science in Mathematics for Transfer Degree

Code	Title	Units
Required Courses		
MATH 005A	SINGLE VARIABLE CALCULUS I	5
MATH 005B	SINGLE VARIABLE CALCULUS II	5
MATH 005C	MULTIVARIABLE CALCULUS	5
List A		
MATH 010	LINEAR ALGEBRA AND APPLICATIONS	5
List B		
Select one of the following:		4-5
CS 002	FUNDAMENTALS OF COMPUTER SCIENCE I	
MATH 055	DIFFERENTIAL EQUATIONS	
MATH 022	DISCRETE MATHEMATICS	
PHYS 001A	PHYSICS FOR SCIENTISTS AND ENGINEERS I: MECHANICS	
STAT 050	ELEMENTARY STATISTICS	
Required Subtotal		24-25
CS General Education or IGETC CSU Pattern		37-39

Transferable Electives (as needed to reach 60 transferable units)

Degree Total

60

Visit the Program Mapper (<https://pasadena-city.programmapper.ws/academics/interest-clusters/35afad1b-8598-4ecf-a320-0ed4834a7df8/programs/12f8e79b-acb7-aa3a-fa4e-699f24f08fa8/>) for a suggested sequence of courses.

General Education Requirements for the Associate in Science Degree

- General Information (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/>)
- PCC Local Gen Ed (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/#pcclocaltext>)
- CSU Breadth (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/#csubreadthtext>)
- IGETC (<https://curriculum.pasadena.edu/academic-programs-leading-degree-certificate/#igetctext>)