

MATHEMATICS 2.0, AS-T

Program Description

Mathematics and related subjects play important dual roles in our culture. Although mathematics is a study in its own right, it is also an indispensable tool for expressing and understanding ideas in the sciences, engineering, and an increasing number of other fields. Students completing this degree will be able to construct appropriate models of natural phenomena, develop those models with appropriate mathematical techniques, and interpret results of those models.

The Associate in Science in Mathematics 2.0 for Transfer degree will prepare students to transfer to the University of California (UC) or California State Universities (CSUs). Students who complete the Associate in Science in Mathematics 2.0 for Transfer degree will be ensured preferential transfer status to many CSUs as mathematics majors and/or majors in related disciplines. The Associate in Science in Mathematics 2.0 for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for a specific CSU.

Learn more about the program on the [Mathematics website](#).

Program Learning Outcomes

- Students will be able to clearly communicate mathematical ideas through graphs, tables of data, equations, and verbal descriptions.
- Students will be able to construct appropriate mathematical models of natural phenomena, develop those models with appropriate mathematical techniques, and interpret results of those models.

Units Required

- Major: 34.5-36

Associate Degree Requirements

Associate in Science in Mathematics 2.0 for Transfer requires completion of a minimum of 90 units, including:

- Core and support courses for the major (34.5-36 units)¹
- California General Education Transfer Curriculum (Cal-GETC)² (45 units) (full certification is required)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ Some units from the core and support courses may be used to satisfy the GE requirement. Please see a counselor for more information.

² Cal-GETC began in Fall Quarter 2025. Students with catalog rights for Summer Session 2025 and previous catalog years may be able to use IGETC or CSU GE Breadth. Please see a counselor for more information.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
MATH 1A	CALCULUS	5

or MATH 1AH	HONORS CALCULUS I	
MATH 1B	CALCULUS	5
or MATH 1BH	HONORS CALCULUS II	
MATH 1C	CALCULUS	5
MATH 1D	CALCULUS	5
MATH 2A	DIFFERENTIAL EQUATIONS	5
MATH 2B	LINEAR ALGEBRA	5
Support Courses		
<i>List A</i>		
Complete one course from List A:		4.5-6
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	
C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++	
C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	
C S 49	FOUNDATIONS OF COMPUTER PROGRAMMING	
PHYS 4A	GENERAL PHYSICS (CALCULUS)	
Total Units		34.5-36