

MATHEMATICS - ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science for Transfer (AS-T) degree in Mathematics will prepare students with the strong foundation necessary for pursuing studies at the university level in various fields, including mathematics, statistics, engineering, physics, chemistry, computer science, economics and business.

To be awarded the Associate in Science in Mathematics for Transfer degree, students must:

(1) Complete 60 semester units or 90 quarter units which are eligible for transfer to the California State University (CSU) system, including both of the following:

- (A) The California General Education Transfer Curriculum (Cal-GETC) Requirements.
- (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.

(2) Obtain a minimum grade point average of 2.0.

While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.

Associate Degrees for Transfer (ADTs) also require that students must earn a "C" or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major if the course is taken on a "pass/no pass" basis.

Upon successful completion of this program, students will be able to:

- Demonstrate the ability to understand and use symbolic, graphical, numerical, and written representations of mathematical ideas.
- Develop critical thinking to enhance mathematical reasoning and to formulate mathematical models to solve applications.
- Solve mathematical problems, using technology when appropriate, and determine the reasonableness of the results.

Major Requirements

Course	Title	Credits
Required Core:		15
MATH 071	Calculus I With Analytic Geometry or MATH 071H Honors Calculus I With Analytic Geometry	5
MATH 072	Calculus II with Analytic Geometry	5
MATH 073	Multivariable Calculus	5
List A: Complete One Course:		3-4
MATH 078	Differential Equations	4
MATH 079	Linear Algebra	3
List B: Complete One Course from this list or One Course not already used in List A		3-5
CIS 024C	Python Programming	3
CIS 054	C/C++ Programming	3
CIS 084	Java Programming	3
STAT C1000	Introduction to Statistics	3
BUS 060	Fundamentals of Business Statistics	3

MATH 070	Discrete Mathematics	4
MATH 080	Discrete Structures for Computer Science	4
PHYS 004A	General Physics	5
Total Units		21-24

AS-T Degree Requirements

Course	Title	Credits
Major Requirements		21-24
Cal-GETC Requirements		34
Transferable Electives (as needed to reach 60)		6-10
Total Units		60