

# PROGRAMS

## MATHEMATICS AS-T

### Associate in Science in Mathematics for Transfer

- [Contact the Mathematics Department.](#)
  - [View all Mathematics courses and degrees.](#)
- [Register via Mission Portal](#)

Associate in Science in Mathematics for Transfer (AS-T) The Associate in Science in Mathematics for Transfer (AS-T in Mathematics) 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 Mathematics.

California Community College students who are awarded an Associate in Arts in Mathematics for Transfer (AS-T in Mathematics) 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. Mathematics is a multifaceted subject of great beauty and application. Mathematics courses provide the student with a universal language used to study quantities and relationships in all fields. Through the study of mathematics, the student develops the ability to think logically and abstractly, as well as developing the problem solving and computational skills necessary for success in any field of study.

#### Program Learning Outcomes

- Students will solve mathematical problems using techniques appropriate to the course content and level of study.
- Students will solve applied problems using mathematical methods appropriate to the course content and the level of study.
- Students will apply technology to analyze and solve problems.
- Students will prepare students to transfer to an accredited 4-year college or university and succeed in upper division math courses to complete their Bachelor Degree in Mathematics.

#### 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/>

#### 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 Intersegmental General Education Transfer Curriculum (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
MAT 003A	Analytic Geometry and Calculus I (5.0 Lecture)	5.0
MAT 003AH	Analytic Geometry and Calculus I - Honors (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

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### List A - Select One (1) Course from the Following

Code	Class	Units
MAT 004B	Differential Equations (4.0 Lecture)	4.0
MAT 004C	Linear Algebra (4.0 Lecture)	4.0

### List B - Select any Course Not Selected from List A or one (1) Course from the Following

Code	Class	Units
CIS 037A	Introduction to C Programming (3.0 Lecture/1.0 Lab)	4.0
CIS 043	Software Development With Java Programming (3.0 Lecture/1.0 Lab)	4.0
MAT 010	Elementary Statistics (4.0 Lecture)	4.0
MAT 010H	Elementary Statistics - Honors (4.0 Lecture)	4.0
MAT 019	Discrete Mathematics (4.0 Lecture)	4.0

### Required Units for the Major

	Units
Required Units for the Major	22.0
GE and electives as needed to reach 60 units.	
Total required units for AS-T	60.0

### Math Major Careers