

# Associate in Science in Mathematics for Transfer Degree:

The Associate in Science in Mathematics for Transfer Degree is intended for students who plan to complete a bachelor's degree in Mathematics or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor's degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree.

## Program Learning Outcomes:

Students who complete the Mathematics for Transfer Program will be able to:

- Create a mathematical model for an applied problem
- Use a model to solve an applied problem
- Communicate in words the solution to an applied problem using correct units
- Identify answers that are extraneous or unreasonable within the context of the given problem

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

**Note:** Students who plan to complete this degree should consult a counselor and visit [www.assist.org](http://www.assist.org) for additional information about participating CSU campuses as well as university admission, degree, and transfer requirements.

## Award Notes:

Students are required to complete a maximum of 60 CSU-transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of "C" or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern

- The Intersegmental General Education Transfer Curriculum pattern

**Note:** Completion of the California State University American Institutions graduation requirement is strongly recommended prior to transfer.

<b>Courses Required for the Major:</b>		<b>Units</b>
MATH 150	Calculus with Analytic Geometry I	5
MATH 151	Calculus with Analytic Geometry II	4
MATH 252	Calculus with Analytic Geometry III	4

## Category A: Select one course from the following (3 units):

MATH 254	Introduction to Linear Algebra	3
MATH 255	Differential Equations	3

## Category B: Select one course from the following or any course not selected in Category A (3 units):

CISC 186	Visual Basic Programming	4
CISC 187	Data Structures in C++	4
CISC 190	Java Programming	4
CISC 192	C/C++ Programming	4
MATH 245	Discrete Mathematics	3
PHYS 195	Mechanics	5
PHYS 196	Electricity and Magnetism	5
PHYS 197	Waves, Optics and Modern Physics	5
MATH 119	Elementary Statistics <b>or</b>	
PSYC 258	Behavioral Science Statistics <b>or</b>	
BIOL 200	Biological Statistics	3

**Total Units = 19–21**

**Electives as needed to meet maximum of 60 units required for the degree.**