

# ASSOCIATE IN SCIENCE IN MATHEMATICS FOR TRANSFER (AS-T)

Students completing the Associate in Science in Mathematics for Transfer will be able to seamlessly transfer in the CSU system to pursue a baccalaureate degree in Mathematics. Students completing this degree will have an introductory foundation for the field of Mathematics through the study of single and multivariate calculus, linear algebra and differential equations, and will acquire the knowledge and skill sets necessary for success in a baccalaureate-level mathematics program.

## Program Outcomes

- Take real situations and develop mathematical models to solve problems.
- Apply analytical techniques to solve problems.
- Create, interpret and analyze graphical representations of data and equations.

## Transfer & Career Opportunities

This Associate in Science in Mathematics for Transfer (AS-T) Degree is intended to meet the lower division requirements for mathematics for all CSU campuses. Students planning to transfer to institutions other than the CSU are encouraged to consult ASSIST.org (<http://ASSIST.org>) and a COS counselor for program planning and course selection. Most common career opportunities with a baccalaureate degree include: technical and financial industries, academics and research, computer and statistical fields (many other career options require an advanced degree).

## Program Requirements

Code	Title	Units
GENERAL EDUCATION		37-39
Select one of the following General Education patterns:		
California State University General Education (CSU-GE) *		
Intersegmental General Education Transfer Curriculum (IGETC-CSU) **		
+		
REQUIRED MAJOR COURSES		12
MATH 065	Calculus 1 *	4
MATH 066	Calculus 2	4
MATH 067	Calculus 3	4
+		
RESTRICTED ELECTIVES - LIST A		4-5
Select one of the following courses:		
MATH 080	Linear Algebra	4
MATH 081	Differential Equations	5
+		
RESTRICTED ELECTIVES - LIST B		4
Select one course from either List A or List B:		
CSCI 001	Programming Concepts/Method 1	4
MATH 021	Introduction to Statistics	4
PHYS 055	Physics 1: Mechanics & Waves *	4
+		

ELECTIVES	3-10
Select additional transferable courses numbered 1-199 to achieve 60 units	
=	
TOTAL	60

\* Course(s) meets General Education requirement and 3-6 units may be double counted above in 1A (CSU GE).

\*\* 3-7 units may be double counted above in 1B (IGETC-CSU). IGETC-CSU requires completion of IGETC AREA 1C.

The Associate in Science Degree for Transfer requirements include completion of the 60 unit program defined above with at least 12 units taken in residence at College of the Sequoias with a "C" (2.0) average and a "C" or better grade in all required major and restricted electives courses (see Transfer Information and Requirements (<https://catalog.cos.edu/transfer-information-requirements/>) for additional details).