

# MATHEMATICS, ASSOCIATE IN SCIENCE FOR TRANSFER

The Associate in Science in Mathematics for Transfer (AS-T in Mathematics) degree program provides students with sufficient understanding of mathematical concepts, skills, and applications to transfer seamlessly into the California State University system and attain upper-division status, majoring in mathematics, physics, engineering, or computer science. Successful completion of AS-T in Mathematics degree guarantees student acceptance to a CSU (but does not guarantee acceptance to a particular campus or major) to pursue a baccalaureate degree in mathematics or related major, in preparation to pursue a career in the field of mathematics, engineering, statistics, actuarial science, business and management, law enforcement, government, and education. Students must complete the Associate Degree for Transfer requirements to earn the AS-T degree.

## Learning Outcomes

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

- Solve problems using mathematical symbols, operations, and techniques.
- Construct mathematical models of physical problems, draw conclusions from these models, and communicate their conclusions.
- Formulate, test, and prove mathematical conjectures.

## Associate in Science for Transfer Degree Major Requirements

Code	Title	Units
<b>Required Core</b>		
MATH 20A	Calculus with Analytic Geometry I	4
MATH 20B	Calculus with Analytic Geometry II	4
MATH 20C	Calculus of Several Variables	4
<b>List A</b>		
Select one course from the following:		4
MATH 31	Linear Algebra	
MATH 32	Differential Equations	
<b>List B</b>		
Select one course from the following:		3-4
Any List A course not already selected		
CSIS 10A	Programming Methods I: Java	
MATH 16	Elementary Statistics	
MATH 40	Discrete Mathematics	
PHYS 3A	Science and Engineering Physics I	
<b>TOTAL MAJOR UNITS</b>		<b>19-20</b>
<b>Additional Requirements</b>		<b>40-41</b>
Complete CSU General Education or IGETC pattern and electives, if needed, for a total of 60 transferable units.		
<b>Total Units</b>		<b>60</b>

Please refer to the graduation requirements section of the Catalog for information about degree and certificate requirements including Reading and Writing, Mathematics, Information Competency, and General Education requirements.