

MATHEMATICS, ASSOCIATE IN SCIENCE FOR TRANSFER

requirements including Information Competency, and General Education requirements.

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
Required Core		
MATH 20A	Calculus with Analytic Geometry I	4
MATH 20B	Calculus with Analytic Geometry II	4
MATH 20C	Calculus of Several Variables	4
List A		
Select one course from the following:		4
MATH 31	Linear Algebra	
MATH 32	Differential Equations	
List B		
Select one course from the following:		3-4
Any List A course not already selected		
CSCI 10A	Programming Methods I: Java	
STAT C1000	Introduction to Statistics	
or PSYC/ SOCI 19	Introduction to Statistics for the Social Sciences	
MATH 40	Discrete Mathematics	
PHYS 3A	Science and Engineering Physics I	
TOTAL MAJOR UNITS		19-20
Additional Requirements		40-41
Complete Cal-GETC pattern and electives, if needed, for a total of 60 transferable units.		
Total Units		60

Please refer to the program requirements section of the Catalog for information about associate degree requirements and certificate