MATHEMATICS ASSOCIATE IN SCIENCE DEGREE FOR TRANSFER

Division: Mathematics and Computer Science

PROGRAM CODE: 2S30708

The **Mathematics Associate in Science Degree for Transfer**, also called the Mathematics AS-T Degree, prepares students to transfer to CSU campuses that offer bachelor's degrees in mathematics. Ed Code Section 66746-66749 states students earning the Mathematics AS-T Degree will be granted priority for admission as a Mathematics major to a local CSU, as determined by the CSU campus to which the student applies. Students with a degree in mathematics may pursue careers in a variety of industries such as education, finance, insurance, information technology, engineering and operations, manufacturing, consulting, analysis, research, and more. The Mathematics AS-T Degree requires a total of 18-20 units. The following is required for all AA-T or AS-T degrees, and there are no additional graduation requirements: (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following: (a) The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements. (b) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district. (2) Obtainment of a minimum grade point average of 2.0. (3) ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A P (Pass) grade is an acceptable grade for a course in the major only if the P is defined to be equivalent to a C or better.

Code	Title	Units
Required Core Courses (12 units):		
MATH 151 F	Calculus I (formerly MATH 150AF)	4
or MATH 151HF	Honors Calculus I (formerly MATH 150HF)	
MATH 152 F	Calculus II (formerly MATH 150BF)	4
or MATH 152HF	Honors Calculus II	
MATH 251 F	Multivariable Calculus (formerly MATH 250AF)	4
Select six units from Lists A and B, with at least 3 units from List A (6 units):		
List A (3-6 units):		
MATH 255 F	Linear Algebra	3
MATH 260 F	Ordinary Differential Equations	3
MATH 252 F & MATH 253 F	Linear Algebra and Differential Equations (formerly MATH 250BF) and Additional Topics in Linear Algebra (formerly MATH 250CF)	6
NOTE: MATH 252 F and MATH 253 F must both be taken for either to count toward the degree.		6
List B (4-5 units):		
If only one course was selected from List A, select one course from List B.		
CSCI 123 F	Introduction to Programming Concepts in C ++	4
CSCI 223 F	C Language for Math and Science	4
MATH 120 F	Introductory Probability and Statistics	4
or MATH 120HF	Honors Introductory Probability and Statistics	
or MATH 121 F	Introductory Probability and Statistics with Support	
MATH 170 F	Discrete Structures	4
PHYS 221 F	General Physics I	4
TOTAL UNITS:		**18-20**

Outcome 1: Analyze and synthesize information from functions, equations, models, or data sets in order to gain insights and draw conclusions

Outcome 2: Distinguish between the multiple possible methods to solve mathematical problems in order to apply the appropriate problem-solving strategy and explain the process and solution to others.

https://www.curricunet.com/fullerton/reports/program_report.cfm?programs_id=1280