# MATHEMATICS ASSOCIATE IN SCIENCE DEGREE FOR TRANSFER 

## Division: Mathematics and Computer Science

## PROGRAM CODE: 2 S30708

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 or MATH 151HF | Calculus I (formerly MATH 150AF) <br> Honors Calculus I (formerly MATH 150HF) | 4 |
| MATH 152 F or MATH 152HF | Calculus II (formerly MATH 150BF) Honors Calculus II | 4 |
| 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 <br> \& MATH 253 F | Linear Algebra and Differential Equations (formerly MATH 250BF) and Additional Topics in Linear Algebra (formerly MATH 250CF) | 6 |
| NOTE: MATH 252 either to count tow | F and MATH 253 F must both be taken for ard 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 <br>  <br> Support |  |
| MATH 170 F | Discrete Structures | 4 |
| PHYS 221 F | General Physics I | 4 |
| TOTAL UNITS: |  | $\mathbf{1 8 - 2 0}$ |

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

