

**San José City College**  
**Associate in Science for Transfer Degree**  
**2020-21**

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**Mathematics AS-T**

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The Associate in Science in Mathematics for Transfer (AS-T) degree will prepare students with the strong foundation necessary for pursuing studies at the university level in various majors such as mathematics, statistics, engineering, physics, chemistry, computer science, economics and business. A grade of “C” or better is required in all coursework completed for the major.

The AS-T in Mathematics is intended for students who plan to complete a baccalaureate degree in Mathematics or a related field of study at a California State University (CSU). Students who complete this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that accepts the AS-T will be required to complete no more than 60 semester units after transfer to earn a baccalaureate degree.

After completing an AS-T in Mathematics, students will be able to:

- Demonstrate the ability to use symbolic, graphical, numerical, and written representations of mathematical ideas.
- Use mathematical reasoning to develop mathematical models to solve real life applications.
- Use appropriate technology to enhance their mathematical thinking, solve mathematical problems, and judge the reasonableness of their results.

**To be awarded the Associate in Arts in Mathematics for Transfer degree, students must:**

- (1) Complete 60 semester units or 90 quarter units which are eligible for transfer to the California State University (CSU) system, including both of the following:
  - (A) The Intersegmental General Education Transfer Curriculum (IGETC) for CSU 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) Obtain a minimum grade point average of 2.0.

*While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.*

**FOR ADDITIONAL INFORMATION, SEE A COUNSELOR, VISIT THE CAREER/TRANSFER CENTER OR CONTACT THE FOLLOWING:**

Faculty: Chris Frazier, [Christopher.Frazier@sjcc.edu](mailto:Christopher.Frazier@sjcc.edu)  
Mathematics and Sciences Division  
San José City College Website

408-298-2181 ext. 3879  
408-288-3716  
[www.sjcc.edu](http://www.sjcc.edu)

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Associate Degrees for Transfer (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 acceptable grade for courses in the major if the course is taken on a “pass/no pass” basis.

### **MAJOR REQUIREMENTS (CORE, List A and List B):**

#### **REQUIRED CORE (15 units):**

MATH	071	Calculus I with Analytic Geometry*	5
MATH	072	Calculus II with Analytic Geometry	5
MATH	073	Multivariable Calculus	5

*Students also must complete one course from List A and one from List B, but may not use the same course for both areas.*

#### **LIST A: Select one course\* (3-4 units):**

MATH	078	Differential Equations -OR-	4
MATH	079	Linear Algebra	3

#### **LIST B: Select one course\* (3-5 units):**

CIS	054	C/C++ Programming -OR-	3
CIS	084	Java Programming	3
MATH	063	Elementary Statistics	3
MATH	070	Discrete Mathematics	4
MATH	078	Differential Equations	4
MATH	079	Linear Algebra	3
PHYS	004A	General Physics	5

**Total units from CORE, List A and List B** **21 - 24**

\* Consult with a counselor to determine which courses are applicable within the major at the CSU you are planning to transfer to.

#### **AS-T DEGREE REQUIREMENTS:**

MAJOR REQUIREMENTS	21 - 24
CSU GE or IGETC for CSU PATTERN	39 or 37
TRANSFERABLE ELECTIVES	<u>2 - 6</u>
<b>TOTAL REQUIRED UNITS</b>	<b>60</b>