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Cupertino, CA 95014  
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Academic Year  
**2018 - 2019**

# Associate in Science in Mathematics for Transfer (A.S.-T.)

Physical Sciences, Mathematics  
and Engineering Division  
Bldg. S3, Room S31  
408-864-8800

Counseling and Advising Center  
Student and Community  
Services Bldg., 2nd Fl.  
408-864-5400

Please visit the Counseling Center to apply for degrees and for academic planning assistance.

## A.A.-T./A.S.-T. Associate Degree for Transfer Requirements

1. Completion of all major courses with a "C" grade or higher, or with a "Pass" if the course was taken on a Pass/No Pass (P/NP) basis and the "Pass" is equal to a "C" grade or higher (Title 5 §55063). Major courses may be used to satisfy GE requirements.

Note: Many colleges and universities require letter grades for major coursework, and/or have other P/NP transfer-limitation policies, so transfer students are advised to consult with a counselor/academic adviser before selecting the P/NP option.

2. Completion of either the California State University General Education Breadth pattern (CSU-GE) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern in full; students transferring to CSU using IGETC must complete Area 1C.
3. Completion of a minimum of 90 CSU-transferable quarter units with a minimum overall GPA of 2.0 in all CSU-transferable units.

Note: While a minimum 2.0 GPA is required for admission to CSU, many majors/campuses require a higher GPA. Please consult with a counselor/academic adviser.

Note: A minimum of 18 degree-applicable quarter units must be earned at De Anza College.

## Associate in Science in Mathematics for Transfer

### A.S.-T. Degree

The role of mathematics is vital and growing, providing solutions to problems in a wide range of sciences: social, biological, physical, behavioral and management. As a whole, mathematics is necessary for understanding and expressing ideas in science, engineering and human affairs. Mathematics is integrally related to computer science and statistics, which have proven invaluable to advancing research and modern industrial technology. The curriculum for the Associate in Science in Mathematics for Transfer academically prepares the student to transfer into the CSU system to complete a baccalaureate degree in a similar major. The Mathematics major consists of courses appropriate for an Associate in Science in Mathematics for Transfer degree, which provides a foundational understanding of the discipline, a breadth of coursework in the discipline and preparation for transfer to any CSU that accepts the Transfer Model Curriculum (TMC). The Associate in Science in Mathematics for Transfer is intended for students who plan to complete a bachelor's degree in Mathematics at a CSU campus. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major. Students transferring to a CSU campus that does accept this degree will be required to complete no more than 60 (semester) units after transfer to earn a bachelor's degree. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system. In all cases, students should consult with a counselor for more information on university admission and transfer requirements.

Program Learning Outcomes - upon completion, students will be able to:

- Be prepared for successful entry into upper division courses in mathematics.

1. Meet the A.A.-T./A.S.-T. degree requirements for transfer.
2. Complete the following.

|             |                                     |   |
|-------------|-------------------------------------|---|
| MATH 1A     | Calculus (5)                        | 5 |
| or MATH 1AH | Calculus - HONORS (5)               |   |
| MATH 1B     | Calculus (5)                        | 5 |
| or MATH 1BH | Calculus - HONORS (5)               |   |
| MATH 1C     | Calculus (5)                        | 5 |
| or MATH 1CH | Calculus - HONORS (5)               |   |
| MATH 1D     | Calculus (5)                        | 5 |
| or MATH 1DH | Calculus - HONORS (5)               |   |
| MATH 2A     | Differential Equations (5)          | 5 |
| or MATH 2AH | Differential Equations - HONORS (5) |   |
| MATH 2B     | Linear Algebra (5)                  | 5 |
| or MATH 2BH | Linear Algebra - HONORS (5)         |   |

|                                   |   |           |
|-----------------------------------|---|-----------|
| Major                             | Mathematics for Transfer  | 30        |
| Transfer GE                       | CSU GE or IGETC for CSU pattern (47-61 units)   |           |
| Electives                         | CSU-transferrable elective courses required when the major units plus transfer GE units total is less than 90 |           |
| <b>Total Units Required .....</b> |   | <b>90</b> |