



21250 Stevens Creek Blvd.  
Cupertino, CA 95014  
408-864-5678  
www.deanza.edu

Academic Year  
**2016 - 2017**

# 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 requirements. Each major course must be completed with a minimum "C" grade.  
Major courses can also be used to satisfy GE requirements (except for Liberal Arts degrees).
2. Certified completion of either the California State University (CSU) General Education Breadth pattern (CSU GE) or the Intersegmental General Education Transfer Curriculum (IGETC for CSU).
3. Completion of a minimum of 90 CSU-transferrable quarter units (De Anza courses numbered 1-99) with a minimum 2.0 GPA ("C" average).
4. Completion of all transferrable and non-transferrable De Anza courses (courses numbered 1-199) with a minimum 2.0 GPA ("C" average).
5. Completion of all De Anza courses combined with courses transferred from other academic institutions with a minimum 2.0 GPA ("C" average).  
Note: A minimum of 18 quarter units must be earned at De Anza College.

Major courses for certificates and degrees must be completed with a letter grade unless a particular course is only offered on a pass/no-pass basis.

## 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.

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