

MATHEMATICS

A.S. Degree

After completing the Mathematics major, students transferring to a four-year institution will be prepared for additional study in the following areas: actuarial science, applied mathematics, computer science (programming), statistics, theoretical mathematics.

Contact:
(408) 848-4701
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Mathematics *A.S. Degree*

ENGR 5	C++ Scientific Programming3	units
MATH 1A	Single-Variable Calculus and Analytic Geometry4	units
MATH 1B	Single-Variable Calculus and Analytic Geometry4	units
MATH 1C	Multivariable Calculus4	units
MATH 2 *	Linear Algebra3	units
MATH 2C	Differential Equations3	units
Total Units Required:		21	UNITS

Plus completion of general education requirements: units vary
Total Units Required: minimum of 60 UNITS

Recommended Electives: MATH 5; PHYS 4A, B, C

* There are times when a course listed as a requirement for a major or certificate cannot be offered in a reasonable timeframe. Course substitutions and waivers will be considered by the department. Please contact the department chairperson. This information is available from the Office of Instruction - (408) 848-4761.

Program Learning Outcomes: After completing this degree a student will be able to:

- ▶ identify and utilize appropriate mathematical operations in the simplification of expressions and solution of equations.
- ▶ compare and contrast various mathematical models and then apply the appropriate model to real world problems.
- ▶ describe, compare and contrast various mathematical functions using everyday language.
- ▶ describe, compare and contrast various mathematical properties and operations for real and imaginary numbers using everyday language.

Mathematics majors are encouraged to consult four-year college catalogs during their first semester at Gavilan College. See Gavilan General Education requirements on page 47.

NOTE: A course may be used to satisfy both general education and major courses. See "Double Counting Rule" on page 41.