



MATHEMATICS

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*

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|------------------------|--|----------|
| ENGR 5 | C++ Scientific Programming | .3 units |
| MATH 1A | Single-Variable Calculus and Analytic Geometry | .4 units |
| MATH 1B | Single-Variable Calculus and Analytic Geometry | .4 units |
| MATH 1C | Multivariable Calculus | .4 units |
| MATH 2* | Linear Algebra. | .3 units |
| MATH 2C | Differential Equations | .3 units |
| Total Units for Major: | | 21 UNITS |

Plus completion of general education requirements units vary
 Total Units Required for A.S.: minimum of 60 UNITS

Recommended Electives: MATH 5, 26; 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. Students completing the core courses will have satisfied requirements for Area B (Physical Universe and Its Life Forms), 3. Mathematics.