

# MATHEMATICS

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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 tool, 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 Mathematics curriculum academically prepares the student to transfer to a 4-year university to complete a Baccalaureate degree in a related discipline. Please check with a counselor for specific transfer requirements.

**Important:** To obtain the Associate in Science Degree in Mathematics, students must complete the following requirements with a minimum grade point average (GPA) of 2.0:

- The Mathematics major requirements below.
- The College of the Siskiyous General Education Pattern (COSGE) requirements.
- Any needed electives to reach a total of 60 COS degree-applicable units.
- All major courses and any courses noted on the COSGE check sheet must be completed with a C or better.

## Requirements for the Major

- Complete the following:* ----- 18 units
  - MATH 1400- Calculus & Analytic Geometry I (4)
  - MATH 1500- Calculus & Analytic Geometry II (4)
  - MATH 2400- Calculus & Analytic Geometry III (4)
  - MATH 2500- Ordinary Differential Equations (3)
  - MATH 2600- Introduction to Linear Algebra (3)
  
- Complete **one** of the following:* ----- 3-4.5 units
  - CSCI 1007- Programming I (3)
  - MATH 1050- Elementary Statistics (4)
  - PHYS 2105- Mechanical Physics, Oscillations, and Waves (4.5)

**Total Units** ----- **21-22.5**