

Program Student Learning Outcomes

Santa Barbara City College Mathematics

Students who successfully complete the course sequence required to obtain the Associate of Science Degree in Mathematics will be prepared to continue their studies at transfer institutions in Mathematics, Physics, Engineering, Chemistry, Life and Social Sciences, Computer Science, and Economics.

Students majoring in mathematics will:

1. Use symbolic, graphical, numerical, and written representations to describe mathematical ideas.
2. Use mathematical reasoning to solve problems and apply a variety of problem solving approaches to find and interpret solutions.
3. Use mathematics to model and solve problems in the sciences.
4. Use appropriate technology to enhance their mathematical thinking and understanding, solve mathematical problems, and interpret their results.
5. Use the language and notation of differential and integral calculus correctly, and use appropriate style and format in written work.
6. Recognize the roles of definitions, axioms and theorems, and identify and construct valid deductive arguments.