



General Studies: Mathematics Associates of Arts

Division of STEM

This program prepares students to demonstrate the full array of MassBay Community College graduation competencies and to transfer to a four-year institution. Completing the program provides students with skills to think critically and quantitatively, solve mathematical problems through calculus, and it allows them the flexibility to explore applications of mathematics in other fields of study

Successful graduates of the program will be able to:

- Demonstrate competency in oral and written communication within the discipline of mathematics by being able to effectively communicate and document the process of problem solving.
- Demonstrate quantitative competency by using a variety of problem solving strategies to solve problems and analyze options and results.
- Apply a variety of technological tools to enhance their understanding of mathematics and support solutions
- Apply the basic concepts, content, and methodology of science to strengthen their knowledge of the physical and natural world.
- Apply knowledge about world regions and their histories, philosophical traditions, religions, artistic and cultural legacies and economic and political forces within the realm of civic literacy and global and ethnic understanding.
- Use critical and creative thinking in problem solving Adapt problem-solving strategies to solve similar problems, consider multiple strategies and evaluate potential solutions using critical and creative thinking.