Associate in Science Degree in Mathematics and Science Program Goals

- Through a cohesive program of study provide a rigorous and diverse curriculum, based upon national standards, that stresses the connections between the STEM majors
- Provide a pathway of transfer to STEM (Science, Technology, Engineering, and Mathematics) majors at four-year institutions
- Offer students a mathematics and science background that allows for a variety of career opportunities in related fields

Associate in Science Degree in Mathematics and Science Program Competencies

Students should be able to…

- Effectively utilize the problem-solving process and build a positive disposition towards problem-solving in mathematics and science; while developing the confidence needed to strive to solve increasingly complex problems
- Develop a wide variety of practices that foster scientific inquiry and mathematical investigation, including: persistence, thinking flexibly, risk taking, focusing on conceptual understanding, and challenging conclusions
- Think critically, reason logically, appreciate the nature and practice of science, and understand and evaluate quantitative and qualitative research, and support conclusions with appropriate evidence
- Read, interpret, critique, and respond to mathematical and scientific literature
- Effectively communicate in both written and oral form, working flexibly between various representations (e.g., tables, graphs, symbols, and verbal descriptions)
- Make connections within and across disciplines, and grapple with universal theories, laws, and truths in mathematics and science
- Analyze contemporary issues in mathematics and science, fostering contributions to productive citizenship