

LIBERAL ARTS AND SCIENCE A.S. - Science Emphasis

Program Mission Statement:

The Mission Statement of the Liberal Arts and Science / Science Emphasis degree program states:

“The Mission of the Faculty, Administration and Staff of the LIBERAL ARTS AND SCIENCE A.S. - Science Emphasis is to provide students with a strong foundation in science that will enable majors to continue their science-based education at a four-year college or university. The faculty, supported by science area administrators and staff, will provide students with excellent instruction and access to contemporary learning resources. All efforts will be directed towards helping students develop and appreciate the essential elements of scientific literacy, including basic principles, methods, and ethical practices.”

Proposed Program Goals:

1. To prepare students to transfer to four-year colleges by instilling in students a solid comprehension of basic principles in the sciences, the nature of science, and the basis of scientific laws and theories.
2. To develop student laboratory skills that are essential to their science discipline and enhance student ability to work cooperatively and collaboratively.
3. To foster student appreciation of science as an integral part of society and everyday life and an awareness of the connection between various areas of the biological and physical sciences.

Proposed Program Level Student Learning Outcomes:

Upon successful completion of the program, students will be able to:

1. Demonstrate knowledge of factual material essential to their discipline in science;
2. Apply the scientific process, including designing and conducting experiments and testing hypotheses;
3. Read, understand, and critically review scientific papers;
4. Prepare written reports in a standard scientific format;
5. Analyze and interpret quantitative scientific data;
6. Perform laboratory skills specific to their discipline in science; and
7. Evaluate and discuss contemporary science-related social and ethical issues, both locally and globally, using scientific knowledge and reasoning.