

Mathematics Program Goals and Student Learning Outcomes

Mission

Provide high quality programs at the undergraduate level and to provide graduate courses as needed by organizations in the region. Meet the needs of students for careers in business, industry, and government, as well as to prepare students for graduate study.

Goals for the Mathematics Major

Students will understand the structure of mathematical systems, the relationship of mathematics to other disciplines, and the use of mathematics to solve problems.

Valued Student Outcomes for Mathematics Majors

Students graduating with a major in Mathematics or Mathematics Education Majors should:

1. Demonstrate an understanding of the structure of a mathematical system and be able to build logical arguments based on the assumptions inherent in the system.
2. Be able to translate real world problems into a mathematical model, analyze the model, and interpret the results using appropriate mathematical methods.
3. Be able to use appropriate technology to solve mathematics problems and interpret the results.
4. Be able to express mathematical ideals orally and in writing.