

MATHEMATICS

Mission Statement

The mission of the Department of Mathematics and Statistics is to offer programs and activities that promote quality learning and scholarship in mathematics and statistics. This includes emphasizing excellence in teaching; encouraging students to become lifelong learners; fostering the growth of the faculty; and stimulating faculty to become involved in meaningful professional service, particularly in the Northeast Florida region

Student Learning Outcomes

UNF Mathematics graduates should be able to:

Content/Disciplinary Knowledge & Skills

- recognize and apply principles of abstract mathematics to solve algebra problems and advanced calculus problems
- recognize and apply principles of applied mathematics to solve calculus problems, differential equations problems and probability problems.
- recognize connections within mathematics in order to solve problems in one area of mathematics using techniques from other areas of mathematics
- discern the beauty of mathematics

Critical Thinking Skills

- solve mathematics problems
- reason logically
- compose coherent and correct proofs
- use technology to solve problems
- create and use mathematical models

Communication Skills

- write coherent and correct proofs and solutions to problems
- verbally present proofs and solutions to problems
- explain mathematics verbally and in writing

Assessment Approaches

Numerous direct and indirect measures of student learning will be advanced to assess mastery of the intended student learning outcomes. Among the potential direct methods that may be employed include course embedded assessments within a capstone course and an assessment of a portfolio that contains work products related to numerous expected student learning outcomes. These direct measures of achievement will be complemented by indirect assessment approaches such as alumni surveys, graduating senior surveys, other student perception measures, or admission rates to graduate and professional schools.

Career Opportunities

For information on the many career options available to Mathematics majors, go to *What Can I Do with a Mathematics Major* at <http://www.unf.edu/dept/cdc/majors/mathematics.html>

For More Information

To learn more about the UNF Mathematics and Statistics Department and majoring in mathematics, go to <http://www.unf.edu/coas/math-stat/>

For a printer friendly version (pdf) click here