

MATHEMATICS

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The Mathematics Department assists students of all majors in mastering the quantitative skills necessary for success in their various disciplines. The Department prepares students majoring in mathematics for careers in the mathematical sciences from both a theoretical and an applied viewpoint, providing simultaneous preparation for those who wish to pursue graduate study. The Department's specific goals are summarized as follows:

1. To assist students of all majors in mastering basic mathematical skills, maximizing their problem-solving skills, and acquiring an appreciation for the critical role of quantitative thinking in modern society.
2. To aid students in developing the mathematical and computational skills necessary for use in various quantitative fields such as engineering, the natural sciences, business and economics, and the vocational areas.
3. To prepare students for various career opportunities such as mathematicians in the applied sciences.
4. To prepare secondary level mathematics teachers.
5. To help students develop the necessary background for further study at the graduate level.

Facilities

The Department maintains a Mathematics Resource Center (BMH - 318) for students enrolled in entry level mathematics courses.

General Department Requirements

All students at Norfolk State University are required to complete the General Education Core in order to qualify for the bachelor's degree. Additionally, the Department requires that:

1. All majors complete the prerequisites, or their equivalents, prior to enrolling in more advanced mathematics courses.
2. Mathematics majors earn at least a grade of "C" in Spartan Seminar Series SEM 101 Spartan Seminar 101, SEM 102 Spartan Seminar 102, and SEM 201 Spartan Seminar 201, all mathematics and computer science courses and in certain other courses specified in the curriculum.
3. Mathematics majors pass a comprehensive examination covering the content of the core mathematics courses.

Programs of Study

The Department of Mathematics offers the B.S. degree in Mathematics. The curriculum emphasizes two areas: Applied Mathematics and Mathematics with Teacher Certification, for those seeking to teach mathematics in the public schools.

Applied Mathematics

This option provides a strong preparation in mathematics with applications in engineering and the physical sciences. Graduates in

this program are qualified as mathematical scientists or engineers for opportunities in industry, government, or graduate school.

Teacher Certification

This program is designed to prepare students to teach mathematics at the secondary school level. Students must apply for admission to teacher education, and admission requirements include passing the PRAXIS I Examination. The Master of Arts in Teaching (MAT) and the Master of Arts in Urban Education (MASAC) degrees are offered through the School of Education with concentrations in mathematics. The School of Education also offers programs of certification to persons with degrees in any of the previously described sequences.

The Department also offers:

Dual Degree Program

This program allows students to complete a primary major in one discipline and then complete a second/dual degree in mathematics.

Minor Degree Program

This program allows students to minor in mathematics. Students whose major is in the applied sciences or engineering typically choose the Mathematics Minor.

Mathematics Programs

- Bachelor of Science in Mathematics - Applied Mathematics Track (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/mathematics/bs-applied-mathematics/>)
- Dual Degree in Mathematics (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/mathematics/dual-degree-mathematics/>)
- Minor in Mathematics (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/mathematics/minor-mathematics/>)
- Mathematics with Teacher Certification Track (<https://catalog.nsu.edu/undergraduate/science-engineering-technology/mathematics/teacher-certification-mathematics/>)