Expert Profs
Faculty in the department of mathematical sciences—all of them accomplished scholars who hold Ph.D.s—teach all math courses for this program.

Hands-On Math
Undergraduate research is required of all math majors. Most projects are interdisciplinary, applying mathematics in science or engineering disciplines.

Dual Degree
The mathematical science program is ideal for science and engineering students who want to enhance their learning experience with a double major.

The mathematical sciences curriculum has been designed primarily for dual majors. During the first two years, students in this program take the same basic courses as those in the applied mathematics program. During the junior and senior years, students complete upper-division mathematics courses such as numerical analysis and modeling, as well as electives in social science, computer science and engineering.

Why Mathematical Sciences at Florida Tech?
Many technical institutions similar to Florida Tech do not offer a flexible math degree designed for dual majors. Typically, they only offer concentrations, which are not as strong as a degree. Our mathematical sciences program provides a unique opportunity for engineering and science students (who are typically excellent in math and love it as well) to enhance their learning experience and career prospects. Students who add the major in mathematical sciences have more advantages in competing for a job or graduate school. Additional benefits of studying mathematics at Florida Tech include small classes and a friendly and nurturing environment. Professors know you by name and help guide you toward success.

Your First-Year Experience
The first year of any math program is about building a strong foundation. For freshman in the mathematical sciences program, this means taking courses in calculus, science and computer literacy—all of them taught by Ph.D. faculty.

QUICK FACTS
• 95% of students in the mathematical science program dual major in biology, chemistry, physics or one of the engineering disciplines.
• About 50% of the course work for the mathematical sciences degree is in math.
• The math department has a 5:1 student-to-faculty ratio.
• All mathematics students complete a capstone research experience designed to prepare them for graduate school and careers of the future.
Knowledge of mathematics is essential to the fields of natural science, engineering, medicine and the social sciences, making mathematical sciences a smart and practical second major.

**What to Expect**

Mathematical sciences students may expect small classes and to learn from professors who enjoy working closely with students. The math department is a small but highly active group, where there is frequent faculty-student interaction.

**Facilities & Labs**

In addition to the high-tech biology, chemistry, physics and engineering laboratories in which mathematical science students will complete much of their course work (particularly if they are double majors), students have access to three dedicated computer labs. These labs provide sophisticated mathematical and statistical software packages such as MATLAB, SAS, SPSS, Mathematica, R and Sage. In addition, there is a parallel computing research lab.

**Faculty Research Areas**

The mathematics department includes faculty members whose research spans the field. Current areas of interest include:

- mathematical biology
- image processing
- financial mathematics
- medical imaging
- applied partial differential equations with an emphasis on biomedical engineering
- neural networks
- data mining and analysis
- queuing theory
- computational number theory
- scientific computing
- optimization
- applied statistics
- operations research

**How It Applies**

One of the most important aspects of the mathematical sciences program is that it teaches you how to apply math in areas such as engineering, the physical and life sciences, environmental science, social science and business—so that when you graduate, careers in all of these fields will be open to you.

**Getting Involved**

To build professional experience and socialize with like-minded peers, students can join Infinity Math Club as well as the student chapter of SIAM, the Society for Industrial and Applied Mathematics.

**Location Advantage**

Studying mathematics on Florida’s Space Coast has its advantages. Being surrounded by high-tech companies offering a variety of math-related internships, for example.

**Careers**

Mathematical sciences graduates are well prepared for entry-level positions in a variety of industries. Alumni have gone on to careers at:

- Harris Corporation
- Northrop Grumman
- NASA
- Boeing
- Various software companies

**Graduate Studies**

Many mathematical science graduates go on to professional or graduate schools, usually in fields related to their science or engineering major. Alumni have studied at universities such as:

- California Institute of Technology
- Cornell University
- Georgia Institute of Technology
- Harvard University
- Northwestern University
- UC Berkeley
- University of Chicago
- University of Michigan

**Department Contact**

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