Biomathematics (mathematical biology) is a highly interdisciplinary field at the intersection of mathematics and life sciences, focused primarily on the use of mathematical, statistical and computational methods to solve complex biological problems. Students study mathematics, computer science and biology in preparation for graduate programs and careers in fields such as bioinformatics, biomedical engineering and medicine.

**Why Biomathematics at Florida Tech?**

Perhaps the greatest benefit of studying biomathematics at Florida Tech is being part of not one but two outstanding departments, both of which are committed to a high level of faculty-student interaction and collaboration. As an interdisciplinary program, biomathematics connects you with accomplished professors doing leading research in both biology and math. It puts you in specialized high-tech laboratories where revolutionary research in both biology and math happens every day. Another reason to choose biomathematics at Florida Tech: the university’s Space Coast location, which gives you access to a wide variety of natural resources and sci-tech companies.

**Your First-Year Experience**

New biomathematics students can look forward to immediate immersion in “real science,” not just text learning. By getting to know their professors and each other through small classes and department gatherings, students usually join a research group early in their college career. What this means is that first-year biomathematics students get to do hands-on, high-caliber research in exciting areas right from the start. Other freshman experiences you can look forward to as a biomathematics major include compelling lectures by world-renowned instructors and courses that challenge you make connections between biology and math—strong preparation for sophomore year.

**QUICK FACTS**

- 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.
- High-achieving students may become members of Tri Beta, the biological sciences honor society.
What to Expect

Biomathematics students may expect small classes and to learn from professors who enjoy working closely with students. The math and biology departments are highly active, and there is frequent faculty-student interaction. All biomathematics students participate in research in a faculty member’s lab using high-tech, state-of-the-art instruments. As a result, it is typical for students to participate in scholarly activities before they graduate.

Facilities & Labs

Much of a biomathematics student’s research will take place in the F. W. Olin Life Sciences Building and the Harris Center for Science and Engineering, which contain nine teaching labs, 19 research labs, animal care facilities for small mammals and reptiles, and a greenhouse. Students also have access to an on-campus aquaculture center and three computational mathematics labs.

Careers

Biomathematics graduates are well prepared for entry-level positions with a variety of employers, including but not limited to:

- biotechnology companies
- pharmaceutical companies
- research labs
- hospitals

Graduate Studies

Graduate programs in biology, mathematics and related subfields are open to biomathematics graduates. Recent alumni of the program have gone on to study at:

- Johns Hopkins University
- Indiana University
- Brown University
- University of Tennessee

Best of Both Worlds

Biomathematics at Florida Tech means you work in biology and math laboratories, are mentored by biology and math professors, and get hands-on training in biology and math. Best of all, you’re prepared for graduate school or employment in the fields of both biology and math!

Faculty Research Areas

The biology and math departments include faculty members whose research spans their respective fields. Current areas of interest include:

- tumor growth modeling
- cancer treatment
- mutation rates
- coral bleaching
- infectious diseases
- population dynamics
- neural network
- medical imaging
- modeling

Graduates In Demand

Biomathematics is an extremely fertile and fast-growing discipline with applications in a variety of industries. At the same time, there are relatively few students graduating with undergraduate degrees in biomathematics in the U.S. As a result, Florida Tech graduates are in high demand.

Rigorous in Research

Biomathematics is a research-based program and in addition to their course work, biomath students work on a research program during each of their four years at Florida Tech.

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