



COLLEGE OF LIBERAL ARTS AND SCIENCES

Mathematics and Statistics

WHY STUDY MATHEMATICS AND STATISTICS AT UMAINE?

The Department of Mathematics and Statistics enables students to develop the skills in analytical and logical reasoning needed to succeed in today's world, where technology is an ever-expanding part of everyday life. We offer opportunities for students to build a strong foundation in core mathematical areas and a number of specializations to prepare our students for fulfilling careers. Our faculty bring their research into the classroom, allowing students to see many of the ways in which mathematics is used in different fields. Beyond our introductory classes, many of our classes are small, allowing for engaging interactions between the faculty and students.

WHAT CAN I DO WITH A MATHEMATICS DEGREE?

Mathematics-based jobs — mathematician, statistician and actuary — have routinely occupied the top few slots in recent studies of the “best jobs” as reported in the *Wall Street Journal* over the past several years. In 2014, mathematician ranked No.1. A degree in mathematics prepares students for a wide variety of careers, including statistician or research scientist in a government laboratory or just about any type of company, including pharmaceutical, manufacturing and technology, research programmer, risk analyst and actuarial scientist for financial or insurance companies, and educator. Proficiency with mathematics and analytical reasoning is a highly desired skill, especially when combined with a background in a secondary field, such as business, computing or a branch of science. A mathematics degree combined with training (such as a minor or second major) in another field is especially attractive to employers, as it indicates stronger quantitative skills than a typical practitioner within that other field, and an ability to see broader links between technology and society.

OUR UNDERGRADUATE PROGRAM

We offer several tracks for our students to facilitate satisfying and rewarding careers or continuing graduate studies. These tracks include statistics, education, pure math and applied math.

OPPORTUNITIES TO EXCEL

In 2014, the department awarded more than \$19,000 in scholarships to math majors; roughly that amount is awarded to students each year. There are often opportunities for students to work with faculty in both research and teaching. Many of our students regularly attend conferences and summer research programs locally and nationally. The department runs an informal seminar series aimed at students, and undergraduates regularly give presentations at meetings.

OUR FACULTY

Faculty in our department have received numerous awards for their scholarship and teaching from the National Science Foundation, Maine Cancer Foundation and National Security Agency. Many of these awards include components for integrating research and teaching. Professor Robert Franzosa received the University of Maine Presidential Outstanding Teaching Award in 2003 and the College of Liberal Arts and Sciences Outstanding Faculty Award in 2010. Professor David Hiebeler received a CAREER award from the National Science Foundation in 2008, the foundation's most prestigious honor for promising young scholar-researchers. Professor Andre Khalil's work on applying image-analysis techniques from astrophysics to aid in early detection of breast cancer has received both research funding and attention from the news media. Professor Andy Knightly has received numerous research grants, helping him to engage his

UMaine's ADVANTAGE

- Opportunities to get involved with research projects
- Small classes
- Close interaction with award-winning faculty

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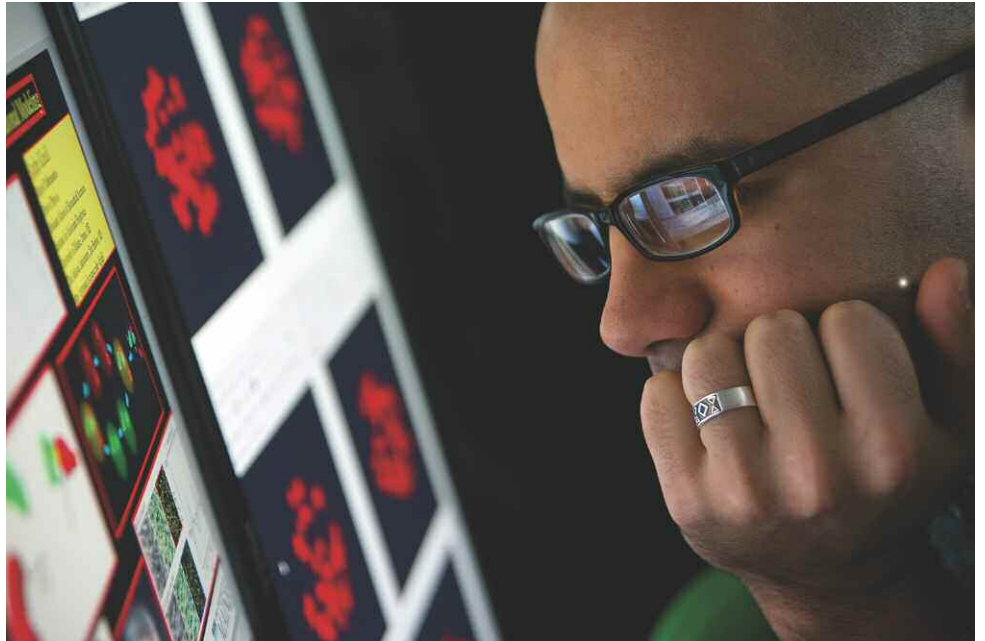
math.umaine.edu
To apply: umaine.edu



Connect with us:
umaine.edu/socialnetwork

ABOUT UMAINE

The University of Maine, founded in Orono in 1865, is the state's premier public university. It is among the most comprehensive higher education institutions in the Northeast and attracts students from across the U.S. and more than 73 countries. It currently enrolls 11,286 total undergraduate and graduate students who can directly participate in groundbreaking research working with world-class scholars. The University of Maine offers doctoral degrees in 35 fields, representing the humanities, sciences, engineering and education; master's degrees in roughly 70 disciplines; 90 undergraduate majors and academic programs; and one of the oldest and most prestigious honors programs in the U.S. The university promotes environmental stewardship on its campus, with substantial efforts aimed at conserving energy, recycling and adhering to green building standards in new construction. For more information about UMaine, visit umaine.edu.



students in cutting-edge mathematics research. Our faculty have published many books, including textbooks and research monographs.

HOW DO I APPLY?

Visit umaine.edu for an application, as well as information about academics and life at UMaine.

explore

*Bachelor of Arts in
Mathematics*

*Minors in
Mathematics*

Statistics

*Master of Arts in
Mathematics*

*Advanced Graduate Study in Mathematics
Pure Mathematics*

*Interdisciplinary Mathematics
Statistics*

*Five-Year Master in
Business Administration*



A mathematics major from UMaine opened many opportunities in my career. As a young software developer in the industry, a strong mathematical mind is an asset to many employers who need to solve analytical problems and use mathematical techniques on large amounts of data. My professors and advisers equipped me with the right practices and tools to apply math in real-world problems.”

— Lydia Chang, Class of 2014

