Four areas of mathematics and statistics, under one roof

Our students acquire the tools and knowledge to apply math to science or engineering, search for a deeper understanding of theoretical mathematics, develop effective ways to teach mathematics or make sense of data with statistics. Our programs are designed to develop students' creative problem solving abilities and analytical skills to help discover solutions and create a better future.

Applied mathematics
This program focuses on learning mathematical and computational techniques to apply to real-world problems in business, science, engineering and industry.

Theoretical mathematics
This program is the study of mathematical principles born from intellectual curiosity and which form the core of the rest of the mathematical sciences.

Mathematics education
This program is the study of how people learn and teach mathematics meaningfully, focusing on mathematics learning and pedagogy at the high school and early college levels.

Statistics
This program focuses on how statistics provides the tools for sampling, design of experiments, summarizing data, making inferences and more.

f @asu.math

y @ASUmathematics

in @somss

Philanthropy fuels possibilities

When you give to our school, you become a partner in the academic success of our students, the research discoveries of our faculty and the continued effort to make the world better. You are also supporting a top ranked research university that's committed to finding solutions to some of our most pressing concerns. From scholarship support to funding for a specific research cause, your generosity and continued investment impact our community profoundly and enable our school to achieve the highest standards of excellence and access.

2 President's Professors

1 endowed professorship

20 endowed scholarships and fellowships

> "The School of Mathematical and Statistical Sciences makes broad contributions to science, engineering and education. With support from the community and alumni, we can strengthen the impact of these contributions for the benefit of society."

— Donatella Danielli
Director, School of Mathematical and Statistical Sciences

math.asu.edu

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Tempe, AZ 85287

April 2022

School of Mathematical and Statistical Sciences

Fact sheet

Natural sciences

ASU **The College** of Liberal Arts and Sciences
Arizona State University

Understanding the world through mathematics

**7** undergraduate degrees

7 graduate degrees

4 undergraduate minors

4 undergraduate certificates

In the School of Mathematical and Statistical Sciences at Arizona State University, we are on a journey to solve the scientific challenges of today and tomorrow. The study of math and statistics helps us push traditional boundaries and pioneer innovative solutions for cancer, infectious disease, neuroscience, urban agriculture, information security, optimization of energy, education and more.

Leading global impact and innovative solutions

Our faculty and scholars adapt to new challenges and make impactful research contributions while educating the global citizens and leaders of tomorrow. We are proud to support faculty who are internationally renowned leaders in their fields as they educate the next generation of mathematics scholars.
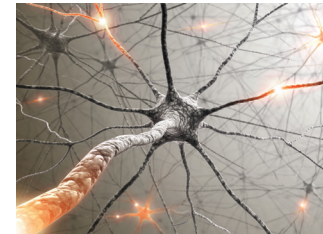
Focusing on the brain

Professor Sharon Crook is the principal investigator of the NeuroML project, an international, collaborative initiative to develop a language for describing detailed models of neural systems. NeuroML will help further our understanding of the nervous system, and how neurons in the brain change due to trauma, aging and disease.

Creating research opportunities

Led by principal investigator Wenbo Tang, the ASU/Maricopa County Community College District Applied Math (AM)^2 REU program provides intense summer research experiences for undergraduates who would not otherwise participate in research. Projects focus on weather and climate forecasting, environmental fluid dynamics, mathematics of imaging, modeling biological processes and dynamics of networks.
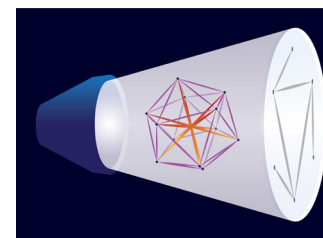
Solving a long-standing geometry problem

For more than 50 years, mathematicians have been pondering a problem in discrete geometry concerning equiangular lines — how many such lines can exist simultaneously in a given dimension? Assistant Professor Zilin Jiang and a team of researchers at MIT recently solved this long-standing problem with the results published in the Annals of Mathematics, "Equiangular lines with a fixed angle."

Cultivating an inclusive environment

Students of our mathematics and statistics programs hail from around the world and from a variety of socioeconomic backgrounds. This diversity in experience and perspectives leads to impactful conversations and research. Of the 820 students pursuing degrees in our school, 35% are female, 28% are Pell Grant eligible, and 27% are the first in their families to attend a university.

163 undergraduate degrees granted

58 graduate degrees granted

122 faculty members

56 tenured and tenure-track faculty

23,026 students enrolled in courses

> "Take advantage of all the opportunities afforded to you. Attend the seminars, conferences and luncheons. Talk to different professors and students. You are constantly surrounded by unbelievably bright minds, and you can learn something through each interaction. Also, do not forget the importance of taking breaks every now and then. Sometimes the most productive move is to step away from your work and get outside."

Lauren Dickman
PhD, applied mathematics