

MTBI



AMLSS

Mathematical & Theoretical Biology

Learn to thrive

MTBI is an intensive summer Research Experience for Undergraduate (REU) students that prepares them for the rigors of graduate level research, training, and experience at the interface of mathematics, statistics, and the natural and social sciences. Select students are invited to ASU for eight weeks, where their time is split between classroom instruction on concepts, methods, and research on real life projects.

Research your Interests

At MTBI, students work in self-selected groups on a research topic of their own interest. Every part of the program exists in a collaborative environment with fellow participants, graduate students, postdoctoral fellows, and visiting scholars, to ensure students have the support they need to learn cutting-edge methods and produce a high-quality technical report, research poster, and potentially publish their work.

35% Of Minority PhD's in Applied Mathematics in the U.S. are MTBI Alumni *

*based on the American Mathematical Society (AMS) data, 2011-2015

Learn more at: <https://mtbi.asu.edu/summerprogram>

Mathematical & Theoretical Biology

- **When:** June & July
- **Where:** Arizona State University, Tempe Campus
- **Eligibility:** Undergraduates who have
 - Completed their sophomore year
 - Completed at least one year of calculus
 - Are majoring in math, biology, or related fields
- **Awards:**
 - US Citizens/Permanent Resident Students
 - Airfare and ground transportation
 - Room and board
 - \$4,000 stipend
 - International Students*
 - Room and board
- **Application Deadline: January 31st**

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* A limited number are considered each year, based on available funding

Applied Mathematics for the Life & Social

Create your Future

This doctoral degree program is designed for independent and driven students who want to make innovative and far-reaching scientific contributions to the global challenges of our time, using cutting edge methodology that pushes the boundaries of innovation.

Interdisciplinary Focus

Our faculty are composed of mathematicians, statisticians, theoretical biologists, and social scientists from at least five different disciplines at ASU. Our curriculum interweaves theory, analytical approaches, and applications with cross-disciplinary and international collaboration.

Complex Adaptive Systems

This concentration trains the next generation of scientists in advanced concepts and methods needed for approaching diverse phenomena in the life and social sciences. The program is tightly integrated with diverse and university-wide research on complex adaptive systems science and emphasizes the value of this perspective to give better insight and a more active role in seeking solutions to a broad array of critical issues facing our world and society.

Learn more at: https://mcmcs.asu.edu/degree_programs

Applied Mathematics for the Life & Social

Eligibility

- Must have a bachelor's or master's degree
- 15 credit hours of junior/senior level mathematics or statistics courses
- 9 credit hours of junior/senior level life or social sciences courses
- 3 credit hours minimum in both life and social sciences courses
- Minimum of a 3.0 cumulative GPA

Funding Awards

- Research and teaching assistantships available

Application Deadline: March 1st

An undergraduate program is also available: AMLSS Bachelor of Science Degree, <https://mcmcs.asu.edu/>

\$103k Average Median Salary for Mathematicians*

33%

Projected Increase of Job Growth for
Mathematicians and Statisticians from
2016 to 2026*

*US Dept. of Labor, www.bls.gov/ooh/math/mathematicians-and-statisticians.htm

Learn more at: https://mcmcs.asu.edu/degree_programs

Contact Us

- 480-965-2115
 - Email: mtbi@asu.edu
 - MTBI summer program website: <https://mtbi.asu.edu/>
 - AMLSS degree programs website: https://mcmasc.asu.edu/degree_programs
 - The Levin Center website: <https://mcmasc.asu.edu/>
-  [@asumtbi](https://www.facebook.com/asumtbi)  [@dynamical_sys](https://twitter.com/dynamical_sys)

ASU Rankings

“#1 university for innovation.” (#2 Stanford, #3 MIT)
—**US News & World Report, 2015, 2016, 2017, and 2018**

“Top 1 percent of the world’s most prestigious universities.” —**Times Higher Education, 2018**

“Top 10 in the U.S. for best qualified graduates.”
(Ahead of MIT, Columbia, and UCLA)
—**Global University Employability Survey, Times Higher Education**

“A top best college value in public higher education.”
—**Kiplinger Personal Finance**

Learn more at: <https://newamericanuniversity.asu.edu/>

The Simon A. Levin Mathematical, Computational and Modeling Sciences Center (The Levin Center)

The Levin Center encourages quantitative scientists and mathematicians from all corners of the university to focus on research driven by “solutions” rather than “disciplines.” Our vision is to train a new generation of diverse, cross-disciplinary researchers who specialize in applying computational, mathematical, modeling, and simulation approaches to solving problems that will improve the human condition. We offer high school, undergraduate and graduate level programs in applied mathematics. Learn more about our programs here:

- **AMLSS Ph.D. and B.S. Degree Programs**
<https://mcmssc.asu.edu/>
- **MTBI Summer Program (Undergraduate)**
<https://mtbi.asu.edu/>
- **JBMSHP Summer Program (High School)**
<https://jbmsph.asu.edu/>

ASU Charter

ASU is a comprehensive **public research university**, measured not by whom it excludes, but by **whom it includes** and how they **succeed**; advancing **research and discovery** of public values; and assuming **fundamental responsibility** for the economic, social, cultural and overall health of the **communities** it serves.

Learn more at: <https://mcmssc.asu.edu/>

