Department of Mathematical and Statistical Sciences

## Unique Offerings

Decima Robinson Support Centre

This centre offers support for students taking introductory mathematics and statistics courses, including drop-in help, weekly review seminars and exam study sessions. Mathematics primer courses are also offered to help high school students make the transition to university. **Fun fact:** Decima Robinson was the **first Bachelor of Science graduate** at the U of A; she graduated with a major in mathematics in 1911.

Redefining the Classroom

Our mathematics programs are ranked **top 5 in Canada** and **top 100 in the world**.

Our department champions **Indigenization** by offering culturally tailored courses, providing tutoring and mentorship to high school students, and organizing math festivals on reserves to foster community engagement and academic support. We are committed to creating **inclusive educational opportunities** that honour Indigenous perspectives and contribute to a diverse academic community.

Undergraduate research opportunities are available in multiple areas such as differential equations, dynamical systems, fluid mechanics, and mathematical biology.
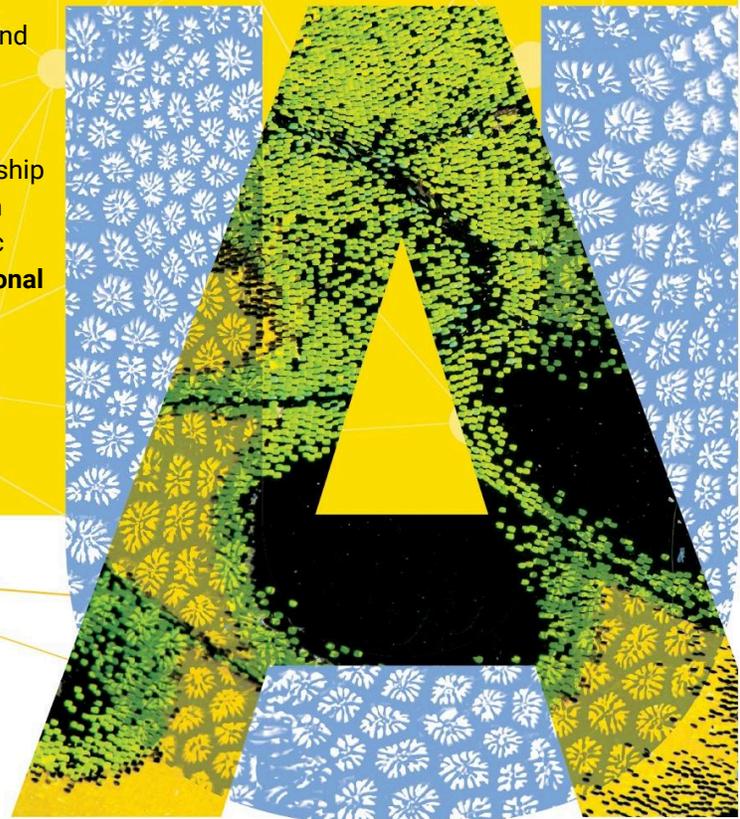
More Information

mathsci@ualberta.ca

ualberta.ca/mathematical-and-statistical-sciences

Undergraduate Programs

MATHEMATICS - BSc Major/Minor | BSc Honors
These flexible degrees allow students to steer their studies in the direction they are most passionate about: analysis, coding theory, differential equations, functional analysis, geometry, manifolds, number theory, numerical methods, operator theory, or topology.

- **COMPUTING SCIENCE (optional minor)**
  Study mathematical foundations of computing: algorithms, logic, or the application of modern algebraic theory to error-correcting codes and cryptography.
- **STATISTICS (optional minor)**
  This combination includes the fundamental principles, philosophy, and historical origins of statistics and probability theory, and allows students to broaden their portfolio of interests and transfer their theoretical skills to the discipline of statistics.

STATISTICS - BSc Major/Minor | BSc Honors
These programs train students to be the ultimate problem solvers. You will learn how to collect, analyze, and interpret data through a wide selection of subjects in theoretical and experimental areas.

MATHEMATICS AND FINANCE - BSc Major | BSc Honors
This interdisciplinary area provides a solid foundation in statistics, economics, accounting, and operations management necessary for careers in the financial industry.

MATHEMATICS AND ECONOMICS - BSc Major | BSc Honors
Learn how to apply mathematical and statistical methods when studying how a society produces, consumes, and distributes goods and services.

APPLIED MATHEMATICS - BSc Major | BSc Honors
Apply mathematical ideas to solve problems in the physical, social, and life sciences, as well as in engineering and finance.

- **COMPUTING SCIENCE (optional minor)**
  Combine analytical mathematical training with the power of computers for solving complex practical problems.
- **STATISTICS (optional minor)**
  This program is intended for students interested in including statistics in their repertory of applicable mathematical and computational techniques.

Possible Careers

- Actuary
- Appraiser
- Auditor
- Business Market Analyst

- Claims Adjuster
- Cryptographer
- Economic Analyst
- Healthcare Analyst

UNIVERSITY OF ALBERTA

For admission requirements: ualberta.ca/admissions

For admission related questions: science.recruiting@ualberta.ca