



UNIVERSITY
OF ALBERTA

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.

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.

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.

DATA SCIENCE - BSc Major | BSc Honors

Jointly offered with the Departments of Computing Science, this program provides students with a strong interdisciplinary education. The program prepares students to work with data in a rigorous and responsible way: from collecting and managing data to building models, interpreting results, and communicating insights.

- **GENERAL OPTION**
Provides a balanced program across computing science, mathematics, and statistics.
- **COMPUTING OPTION**
Emphasizes programming, algorithms, machine learning, and large-scale data systems.
- **MATHEMATICS OPTION**
Focuses on mathematical modelling, optimization, stochastic processes, and the theoretical foundations of data science.
- **STATISTICS OPTION**
Emphasizes statistical modelling, inference, regression, and statistical learning methods for analyzing real-world data.

Possible Careers

- Actuary
- Appraiser
- Auditor
- Business Market Analyst
- Claims Adjuster
- Cryptographer
- Economic Analyst
- Healthcare Analyst



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For admission requirements: ualberta.ca/admissions

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

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