Applied and Industrial Mathematics

Can the social response to pandemics be optimized to save lives?

How is the weather predicted?

How can we learn about another planet from images of its surface?

How can we optimize traffic flow with self-driving cars on the road?

What is the best strategy for managing investments during times of uncertainty?

Mathematics is integral to every scientific endeavour and fundamental to problem solving—whether modelling atmospheric phenomena or managing the complexities of risk in financial markets.

Working with state-of-the-art algorithms and software, you'll learn and apply advanced numerical skills.

Augment your learning experience through our five-year co-op option.

Learn concepts, principles, qualitative and quantitative methods, and innovative problem-solving skills while gaining valuable experience with relevant, work-related research projects.

What will I study?

- Algebraic Structures
- Biostatistics
- Complex Analysis
- Computational Science
- Dynamical Systems and Chaos
- Industrial Mathematics
- Introduction to Probability Theory
- Partial Differential Equations

What can I do with my degree?

Pursue career and advanced education opportunities in a variety of areas including:

- Academic and research science
- Aerospace engineering
- Data science
- Government agencies (e.g. Statistics Canada, Department of National Defence)
- Investment analytics
- Meteorology
- Secondary school teaching (through Concurrent Education)
- Statistical analysis

Completion of this degree allows you to pursue graduate studies in Applied Mathematics. This includes our Master of Science program in Modelling and Computational Science.

Want more information?

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