

# Applied Mathematics

MSc

[ryerson.ca/graduate](https://ryerson.ca/graduate)



# Applied Mathematics

**This program welcomes motivated students seeking to acquire mathematical skills to advance their academic or industry career goals. Students produce high-quality work in the form of a thesis or major research paper, and learn how to write technical and scientific reports and communicate complex results to a general audience. All students are fully funded and pursue rewarding academic and industry careers upon graduation.**

## Research Areas

With access to the state-of-the-art RAMLab (Ryerson Applied Mathematics Laboratory), students can explore the following fields:

- Biomathematics
- Biostatistics
- Complex Networks
- Computer Security
- Cryptography
- Data Mining
- Differential Equations and Operator Theory
- Financial Mathematics
- Fluid Mechanics
- Foundations of Statistical Mechanics
- Graph Theory
- Machine Learning
- Software Testing

Industrial research opportunities include:

- Modelling and Searching Complex Networks in the Big Data Era
- Risk Assessment and Modelling for a Fund of Hedge Funds
- Stochastic Modelling and Simulation for Systems Biology

## Admissions Information

### MSc

- Completion of a 4-year bachelor of science degree in mathematics or a related discipline
- Minimum GPA or equivalent of 3.00/4.33 (B) in the last two years of study
- Curriculum vitae
- Statement of interest
- Two letters of recommendation

Applicants may be required to provide certification of English language proficiency. For more information, visit [ryerson.ca/graduate/futurestudents/admissions/english-language.html](http://ryerson.ca/graduate/futurestudents/admissions/english-language.html).

## At a Glance

# 22

faculty members

# 1:1

faculty:student ratio

# 200

**papers published in peer-reviewed journals and proceedings in the last six years (2009-14)**



**“Studying Applied Mathematics at Ryerson University has been a wonderful experience. The combination of challenging coursework, supportive professors, and interesting research addressing real-world problems has helped me grow as a mathematician.”**

**– Jill Padgett, MSc student**

### **International Students**

International Student Services (ISS) provides comprehensive support for the international student community at Ryerson.

**[ryerson.ca/internationalservices](https://ryerson.ca/internationalservices)**

### **Program Contact**

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