Why GRADUATE STUDIES in MATHEMATICS and STATISTICS?

A doctoral degree in Mathematics and Statistics is essential for anyone aspiring to a research or academic position, and is very useful for those who want to assume a leadership role in government, business and industry. The Doctor of Philosophy is a research degree, and doctoral studies are an essential step in the preparation of a research scientist.

Why QUEEN’S?

Queen’s is an ideal place to pursue graduate study in Mathematics and Statistics. We have an outstanding group of faculty researchers who are internationally recognized in their fields of specialization. They represent a wide variety of areas including pure mathematics (number theory, algebra, algebraic geometry, combinatorics, operator algebras, random matrices and dynamical systems), mathematical physics, mathematics applied to engineering (control theory, communication theory), mathematical biology, and both theoretical and applied statistics.

Program STRUCTURE

Course work, qualifying exams, thesis prospectus exam, and thesis.

RESEARCH Areas

- Algebra and Number Theory
- Analysis, Geometry, and Topology
- Applied Mathematics
- Mathematics & Engineering
- Probability and Statistics

We encourage you to identify an area of research interest and contact a potential supervisor before applying.

Visit the Department of Mathematics and Statistics website to read faculty profiles and learn more about faculty members’ research areas. When you find a faculty member with similar research interests to yours, contact him/her and tell them about your interest in graduate work and related experience.

“The graduate mathematics community at Queen’s is vibrant, international, and intellectually stimulating.”

– John Treilhard, MSc

School of Graduate Studies
Create an impact
www.queensu.ca/sgs
WHAT WILL I LEARN?
A graduate degree in Mathematics and Statistics or Mathematics and Engineering can equip you with valuable and versatile skills, such as:

- Knowledge and technical skills
- Effective communication skills in multiple forms for diverse audiences
- Information management: prioritize, organize and synthesize large amounts of information
- Time management: meet deadlines and manage responsibilities despite competing demands
- Project management: develop ideas, gather information, analyze, critically appraise findings, draw and act on conclusions
- Creativity and innovation
- Perseverance
- Independence and experience as a collaborative worker
- Awareness, an understanding of sound ethical practices, social responsibility, responsible research and cultural sensitivity
- Professionalism in all aspects of work, research, and interactions
- Leadership: initiative and vision leading people and discussion

WHERE CAN I GO?
A PhD in Mathematics and Statistics or Mathematics and Engineering can take your career in many directions. In Canada, less than 40% of all PhDs will work in post-secondary education or Mathematics and Engineering can equip you with valuable and versatile skills, such as:

- Academia
- Research organizations
- Clinical Data Analysis
- Business Analysis
- Finance

Taking time to explore career options, build experience, and network can help you have a smooth transition to the world of work after graduation.

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Application FAQs

What do I need to know to APPLY?

ACADEMIC REQUIREMENTS
Master's degree in Mathematics and/or Statistics or related field with a minimum B+ standing and demonstrated research potential and clear interests. Applicants interested in Mathematics and Engineering will also have an undergraduate degree in an engineering field.

ADDITIONAL REQUIREMENTS

• Two official transcripts for all post-secondary studies.
• At least 2 letters of reference.
• If English is not a native language, prospective students must meet the English language proficiency requirements in writing, speaking, reading, and listening. The following minimum scores are required: (1) TOEFL iBT: Writing (24/30); Speaking (22/30); Reading (22/30); Listening (20/30). Applicants must have the minimum score in each test as well as the minimum overall score, or (2) IELTS: 7.0 (academic module overall band score and a 7.0 for each test band), or (3) PTE Academics: 65, or (4) CAEL CE -70 (minimum overall score).

KEY DATES & DEADLINES

• Application due: Although applications can be submitted up to April 30th, applicants are advised to submit their applications as soon as possible and by January 15th in order to receive full funding consideration.
• Notification of acceptance: Rolling acceptances.

Before you start your application, please review the graduate studies application process.

What about FUNDING?

The minimum funding guarantee for Mathematics and Statistics PhD students is $26,500 per year, throughout years 1-4. The funding package may be comprised of teaching assistantships or fellowships, research fellowships, internal and external awards and/or scholarships.

We encourage all students to apply for external funding from OGS, NSERC and other sources. For more information on sources of funding see Funding, Awards, Scholarships and Bursaries.