Application FAQs
What do I need to know to APPLY?

ACADEMIC REQUIREMENTS
• MSc: 4 year Bachelor's degree (preferably honours) with a minimum B+ standing.
• MASc: 4 year Bachelor's degree (normally in engineering) with a minimum B+ standing.

ADDITIONAL REQUIREMENTS
• Two official transcripts for all post-secondary studies.
• At least 2 letters of reference.
• Curriculum vitae.
• If English is not a native language, prospective students must meet the English language proficiency requirements in writing, speaking, reading, and listening.

The School of Graduate Studies requires the following minimum scores: TOEFL (paper-based): 550, (2) TOEFL IBT: Writing (24/30); Speaking (22/30); Reading (22/30); Listening (20/30); for a total of 88/120 (applicants must have the minimum score in each test as well as the minimum overall score); or (3) IELTS: 7.0 (academic module overall band score); or (4) PTE Academics: 65.

KEY DATES & DEADLINES
• Application due: January 15 to receive full funding consideration. There is no deadline to apply for admission.
• Notification of acceptance: Rolling acceptances.

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

What about FUNDING?
Most MSc and MASc students in Mathematics and Statistics receive minimum funding of $23,000 per year. The funding package can consist of teaching assistantships or fellowships, research fellowships, internal and external awards and/or scholarships.

We encourage all eligible students to apply for external funding from OGS, NSERC and other sources. Queen’s will automatically issue a $5,000 top-up to incoming master’s students who are awarded federal government tri-council awards. For more information, see the School of Graduate Studies' information on awards and scholarships.

Program STRUCTURE
• MSc Pattern I (18-24 months): course work and a research thesis.
• MSc Pattern II (12 months): course work and research project.
• MASc (18-24 months): course work and a research thesis.

Why GRADUATE STUDIES in MATHEMATICS and STATISTICS?
A graduate degree in Mathematics and Statistics is essential for anyone aspiring to research or academic positions, and is very useful for those who want to assume a leadership role in government, business and industry. A Master's degree in mathematics and statistics prepares students for a wide variety of research and industry career options.

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.

RESEARCH Areas
MSc
• Algebra and Number Theory
• Analysis, Geometry, and Topology
• Applied Mathematics
• Mathematics and Engineering
• Probability and Statistics
MASc
• Mathematics and Engineering

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

The Department of Mathematics and Statistics website is a valuable resource for students and prospective students, offering detailed information on academic programs, faculty members, and research opportunities.

For more information, please visit the School of Graduate Studies website.
**Mathematics and Statistics**  
MSc, MASc MAP *

**GETTING STARTED**
- **ACHIEVE YOUR ACADEMIC GOALS**
  - Start with key priorities like developing your relationship with your supervisor and doing your coursework.
  - Find your way through the academic process with help from departmental and Expanded Horizons professional development workshops, the department Grad Chair, and the SGS Habitat.
- **MAXIMIZE RESEARCH IMPACT**
  - Start to think about the audiences for your research.
  - If you will be continuing graduate studies explore graduate programs and apply for external scholarships such as NSERC or OGS.
- **BUILD SKILLS AND EXPERIENCE**
  - Consider positions in student services, the SGPS, or media outlets like the Queen's Journal, CFRC, and the SGS Blog. Look in the AMS Clubs Directory for more ideas.
  - Serve on departmental, faculty, or university committees.
  - Check out professional development workshops from Expanded Horizons.
- **ENGAGE WITH YOUR COMMUNITY**
  - Explore how you can connect with your community through experiential opportunities on- and off-campus.
  - Consider volunteering with different community organizations, such as Math Quest, a math camp for girls.
- **LAUNCH YOUR CAREER**
  - Finding a career that fits starts with knowing yourself. Get help by taking a Career Services career planning workshop or meeting with a career counsellor. Check out books like So What Are You Going to Do With That? or The Academic Job Search from the Career Resource Area for advice on various career options.
  - Start reading publications like University Affairs and the Chronicle of Higher Education. Browse non-academic labour market websites. Stay on the lookout for special events like Graduate Student Career Forum to explore your career pathways.
  - Check admission test deadlines if needed for further studies.

**INTERMEDIATE STAGE**
- **ACHIEVE YOUR ACADEMIC GOALS**
  - Complete your coursework, begin to research and write your project or thesis.
  - Attend the weekly Math & Stats Department Colloquium.
- **MAXIMIZE RESEARCH IMPACT**
  - Attend or present at a graduate conference.
  - Consider participating in the 3 Minute Thesis (3MT) competition.
  - Expand your research audience through social media such as Twitter or a blog.
  - Set up a meeting with the School of Graduate Studies for a Grad Chat to discuss your research interests.
- **BUILD SKILLS AND EXPERIENCE**
  - Start keeping an portfolio of your skills, experiences and competencies.
  - Use a Research Assistant or Teaching Assistant position to develop your research or teaching skills.
  - For help with teaching, get support from the Centre for Teaching and Learning.
  - Prepare for work or studies in a multi-cultural environment by taking the QUC and Four Directions Aboriginal Student Centre's Training Certificate.
- **ENGAGE WITH YOUR COMMUNITY**
  - Participate in your graduate and professional community through activities such as graduate student outreach programs, organizing conferences, and research groups.
  - Prepare for work or studies in a multi-cultural environment by taking the QUC and Four Directions Aboriginal Student Centre's Training Certificate.
  - Science in the Public Interest, a math camp for girls.
- **LAUNCH YOUR CAREER**
  - Finding a career that fits starts with knowing yourself. Get help by taking a Career Services career planning workshop or meeting with a career counsellor. Check out books like So What Are You Going to Do With That? or The Academic Job Search from the Career Resource Area for advice on various career options.
  - Start reading publications like University Affairs and the Chronicle of Higher Education. Browse non-academic labour market websites. Stay on the lookout for special events like Graduate Student Career Forum to explore your career pathways.
  - Check admission test deadlines if needed for further studies.

**WRAPPING UP**
- **BUILD SKILLS AND EXPERIENCE**
  - Practice articulating the skills you have been developing in settings outside the university, such as casual conversation, networking, and interviews. Get help from a Career Services workshop.
  - Check out opportunities for extra training through CTL, Expanded Horizons, Mentorship, or other sources to boost your skills.
- **ENGAGE WITH YOUR COMMUNITY**
  - Do some targeted networking with people working in careers of interest, through QueensConnects on LinkedIn, the Queen's Alumni Association, professional associations, and at conferences. Get help from a Career Services workshop.
  - Consider joining professional associations like the Canadian Mathematical Society or the Canadian Applied and Industrial Mathematics Society.
- **LAUNCH YOUR CAREER**
  - Participate in hiring committees and attend job talks. Start focusing on areas of interest. Research organizations of interest and start putting together your CV or resume for potential positions of interest. Get help from Career Services with your resume, or interviews.

**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 Master's degree in Mathematics and Statistics or Mathematics and Engineering can take your career in many directions. Many of our MSc students choose to continue their academic inquiry with a PhD. Our Master's students are equipped with a strong foundation for careers in:
- Academia
- Biostatistics
- 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.

*This map is intended to provide suggestions for activities and careers, but everyone's abilities, experiences, and constraints are different. Build your own Grad Map using our online My Grad Map tool.