Information on Graduate Studies in Mathematics & Statistics and Computational Science & Engineering

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Why go to Grad School?

- Love of the subject
- Enhanced job opportunities advanced degrees useful in
 - Academia
 - Industry
 - Government

What do graduates do after finishing?

- M.Sc. programs feed into Ph.D. programs
- M.Sc. degrees offer advanced training in analytical and quantitative skills essential in e.g., financial math, statistics, big data, scientific computing
- some M.Sc. graduates go to professional schools (law, business, teachers' college, etc.)
- Ph.D. graduates often target academic jobs, but are also successful in industry and government

Where to go to grad school?

- big versus small universities
- critical mass in your field of research interest
- which country?
 Canada, United States, UK, France, Germany, Australia,
 Spain, Brazil, ...

Consider Grad School at Mac!

- Research and training opportunities in
 - core areas of pure and applied mathematics
 - statistics and big data
 - financial math
 - math biology

 - scientific computing
- Project and thesis M.Sc. in Mathematics
 - project-based M.Sc. in less than 12 months!
- Project and thesis M.Sc. in Computational Science & Engineering (CSE)
- Gain knowledge and experience before going on to professional program or Ph.D.

How do I get into grad school?

- Apply! Lots of information available online:
 - websites, social media
 - Email grad advisors and potential supervisors, directors of specialized programs, etc.
- Most require a B+ honours degree (average based on math courses taken in last one or two years)
- Admission to some program can be very competitive minimum grade averages are not indicative
- It helps a lot to approach potential supervisors in parallel with submitting an application
- Strong research potential is important, especially for Ph.D. try to build up credentials (project courses, USRAs, etc.)!

Typical Application Checklist

- Statement of research interests
- Reference letters (at least 2) from professors knowledgeable about your mathematical abilities
- GRE (Graduate Record Examinations) scores (for the US)
- Transcripts
- Application fee

What to expect in Grad School?

- Courses, TA responsibilities, seminars, ...
- Research may start right away or within a year finding a supervisor is essential!
- At McMaster: possible transfer directly from M.Sc. to Ph.D.

- Direct entry to Ph.D. programs common in the US
- Comprehensive or qualifying exams are common in most Ph.D. programs

Scholarships

- NSERC CGS-M (www.nserc.ca)
 - Canadian/PR
 - A- (80%) average minimum in each of last 2 years
 - value: \$17,500
- OGS (osap.gov.on.ca)
 - Canadian/PR
 - A- (80%) average minimum in each of last 2 years
 - value: \$15,000 (\$5,000 per term)
- Commonwealth, Canada-US Fulbright, French Embassy, etc.
- Universities often top-up these awards

Important Deadlines

- November to January grad school application deadlines
- January 15 application at McMaster
- December 1 NSERC CGS-M (no internal application)
- no deadline for OGS (part of grad school application)
- GRE registration deadline for subject test is early September

Additional Resources

 Application Procedure for McMaster (Mathematics & Statistics)

https://www.math.mcmaster.ca/index.php/graduate-studies/application-procedure.html

 Application Procedure for McMaster (Computational Science & Engineering)

https://computational.mcmaster.ca/graduate-studies/application-process.html

School of Graduate Studies

https://graduate.mcmaster.ca/

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I am always happy to meet with you to discuss any questions you might have.

 \Longrightarrow book an appointment via Email

GOOD LUCK WITH YOUR APPLICATIONS AND HOPE TO SEE YOU IN OUR GRADUATE PROGRAM!