

INTRODUCTION TO GRADUATE STUDIES

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INTRODUCTION TO GRADUATE STUDIES



- What is graduate study?
 - Opportunity to conduct advanced study/research focused on a particular academic discipline
- Some programs are course based, others require a substantial research (practicum) component
- MSc – traditional 1 -2 years depending on program (ie combined BSc/MSc)
- PhD – typically 4 - 6 years (ideally 4)
- Stipends!

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https://www.queensu.ca/sgs/#

INTRODUCTION TO GRADUATE STUDIES



- Programs and graduate coordinator's within the School of Medicine at Queen's:
 - Neurosciences – Dr. Alastair Ferguson
 - Public Health Sciences – Dr. Will Pickett
 - DBMS – Dr. Bruce Banfield
 - Translational Medicine – Dr. Paula James
 - Pathology – Dr. Peter Greer
 - Collaborative Cancer Research – Dr. Lois Mulligan
 - MD/PhD – Dr. Brian Bennett

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- **Neurosciences** – Dr. Alastair Ferguson (Graduate Coordinator)
- Multidisciplinary, collaborative graduate program focused on reducing the impact of neurological disorders
- The Neuroscience graduate program is firmly rooted in research because our objective is to produce highly-trained graduates who will continue our efforts to prevent and treat neurological diseases
- Our program offers studies at the master's and doctoral levels spanning the full spectrum of neuroscience research, from cellular/molecular to clinical studies

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- Public Health Sciences – Dr. Will Pickett (Graduate coordinator)
- This program aims to provide students with the educational opportunities needed to acquire the knowledge, attitudes and methodological skills necessary to participate in health services or epidemiology research teams, or in public health practice
- The M.Sc. program offers the chance to specialize in one of three streams of study:
 - Epidemiology and Population Health
 - Health Services and Policy Research
 - Clinical Epidemiology
- The Ph.D. program trains epidemiologists as independent investigators and leaders in health or health-related agencies where research is an important function

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- Biomedical and Molecular Sciences (DBMS) – Dr. Bruce Banfield (Graduate coordinator)

(i) An MSc (Anatomical Sciences); (ii) A thesis-based MSc research degree; and, (iii) A PhD degree. In the latter two degree programs (MSc and PhD), students choose one of the following Fields of Specialization, which represent the current research strengths of the Department:

- Biochemistry and Cell Biology
- Experimental Medicine
- Microbes, Immunity, and Inflammation
- Reproduction and Developmental Sciences
- Therapeutics, Drug Development, and Human Toxicology

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- Pathology and Molecular Medicine – Dr. Peter Greer (Graduate coordinator)
- The Department of Pathology and Molecular Medicine is a clinical department with a major research focus in cancer, hemostasis and vascular biology
- Trainees have opportunities to pursue comprehensive training in basic and translational biomedical research, an example being diagnostic, predictive and prognostic biomarker research

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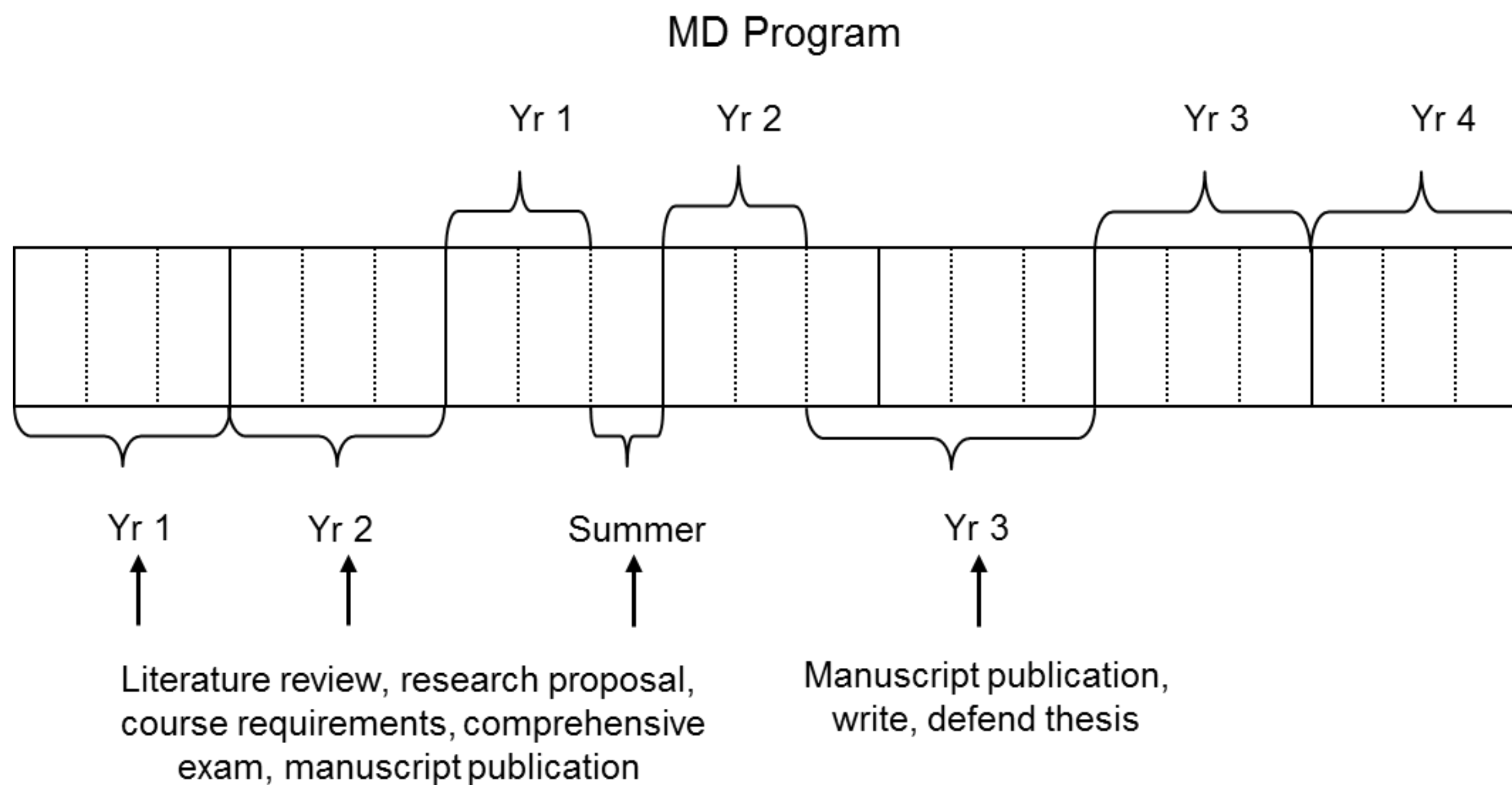
- Translational Medicine – Wei Yan (Educational Lead)
- Combining the fields of medicine and research, this programs links graduate level research skills with a variety of clinical experiences including patient interactions, clinical observerships and medical rounds to enhance professional thinking and action
- This innovative curriculum offers important foundation work for future careers in the biomedical field, and provides critical skills for pursuing careers that include clinician scientists, biomedical researchers, leaders in industry and public health and/or health policy

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- Collaborative Program in Cancer Research – Dr. Lois Mulligan (Graduate coordinator)
- The graduate program in cancer research is jointly offered by the Departments of Public Health Sciences, Pathology & Molecular Medicine, Psychology and Biomedical & Molecular Sciences
- The collaborative program provides an intellectual focus on cancer and connects researchers and graduate students with different perspectives on this area
- The program encourages interactions of researchers and students with common interests in cancer, regardless of departmental home, and at the same time facilitates productive interaction between individuals involved in different research areas, all focused on different aspects of cancer research

MD/PhD Program Pathway



PhD Program

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How To Apply

- complete the online application located at:
<http://www.queensu.ca/sgs/applications-admissions>
- This website also provides helpful information on registration, fees, awards, cost of living and information for international students
- When you complete and submit your on-line application, then your references will be emailed instructions to provide on-line letters of support

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What are my career options after getting a graduate degree?

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- Education coordinators
- Research technician
- Scientist
- Administrator in academia
- Private sector (biotechnology pharmaceutical industry, consulting firms)
- Government sector (Health Canada, Ministry of the Environment and Agriculture).
- Academic careers
- Professional schools

Application Deadlines

Check website – some firm others, more flexible
(typically Jan – Mar)

Research based often require a secured supervisor

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- Canadian Institutes for Health Research (CIHR)
- NSERC
- **Queen's provides an automatic one-time top-up of \$5000 (Master's) or \$7,500 (PhD) to all incoming federal tri-council award winners.**
- Ontario Graduate Student Scholarship
- Internal Awards