

# Introduction to Graduate Studies

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**Graduate Studies** 

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October 22,2021

# What does graduate studies entail?



- Applying knowledge from undergrad to research
- Developing skills useful for a wide range of future endeavors
  - Reading scientific literature
  - Teaching
  - Writing skills (abstracts; papers; etc)
  - Presentation skills (posters; seminars)
- Some programs are course based, most require a substantial research (practicum) component
- MSc ~16-24 months (program-dependent)
- PhD ~4-5 years
- Stipends (program-dependent)
- Travel!
  - Conference attendance
- Coursework

Career options after grad school





- complete the online application located at: <a href="http://www.queensu.ca/sgs/applications-admissions">http://www.queensu.ca/sgs/applications-admissions</a>
  - helpful information on registration, fees, awards, cost of living and information for international students
- When you complete and submit your online application, then your referees will be emailed instructions to provide online letters of support
  - 2 reference letters required
  - Choose referees who know you well, eg your 4<sup>th</sup> year project supervisor or faculty with whom you have interacted (eg someone who evaluated your presentation/writing skills)
- Identify and contact a potential supervisor (recommended, but not always a requirement)
- Deadlines for applications are program dependent (some are firm, some are flexible)

### **Programs and Graduate Coordinators within the School of Medicine**

**Biomedical and Molecular Sciences** – Dr. Katrina Gee (<a href="https://dbms.queensu.ca/graduate">https://dbms.queensu.ca/graduate</a>)

**Neurosciences** – Dr. Gunnar Blohm (<a href="http://neuroscience.queensu.ca/graduate">http://neuroscience.queensu.ca/graduate</a>)

 program offers a full spectrum of neuroscience research, from cellular/molecular to clinical studies

Public Health Sciences – Dr. Harriet Richardson (<a href="https://phs.queensu.ca/">https://phs.queensu.ca/</a>)

- 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
- Ph.D. program trains epidemiologists as independent investigators and leaders in health or health-related agencies where research is an important function

### **Programs and Graduate Coordinators within the School of Medicine**

**Translational Medicine** – Dr. Mark Ormiston & Paula James (<a href="https://deptmed.queensu.ca/academics/translational-medicine-graduate-programs">https://deptmed.queensu.ca/academics/translational-medicine-graduate-programs</a>)

 combining the fields of medicine and research linking graduate level research skills with clinical experiences

Pathology and Molecular Medicine – Dr. Peter Greer (<a href="https://pathology.queensu.ca/academics/graduate-studies">https://pathology.queensu.ca/academics/graduate-studies</a>)

research foci in cancer, hemostasis and vascular biology

Cancer Research – Dr. Lois Mulligan (<a href="https://www.queensu.ca/cancergradprogram/">https://www.queensu.ca/cancergradprogram/</a>)

- jointly offered by the Departments of Public Health Sciences, Pathology & Molecular Medicine, Psychology and Biomedical & Molecular Sciences
- encourages interactions of researchers and students with common interests in cancer, regardless of departmental home

MD/PhD - Dr. Chandra Tayade (<a href="https://meds.queensu.ca/academics/md\_phd">https://meds.queensu.ca/academics/md\_phd</a>)





### MSc (Anatomical Sciences)

- 16 months long
- Program structured around three pillars of competency (content, pedagogy, inquiry) designed to
  educate students interested in the art of teaching and designing curricula in the anatomical sciences.

# Thesis-based MSc research degree Thesis-based PhD degree

• 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





# DBMS MSc Course requirements

### **Anatomical Sciences:**

30 credit units

### **Thesis Based Degrees:**

- MSc requires: minimum of 12 credit units at the graduate level.
- BMED 860\* (3 credit units, Fundamentals of Academic Research)
- BMED 897\* (3 credit units, DBMS Seminar Program)
- 6 additional units

# How do I choose a supervisor?



- Identify someone whose research interests you
  - Visit faculty websites
  - Read papers and look up corresponding authors
- Speak to others who work with (or have worked with) your potential supervisor
- Email and ask if they are accepting new students
  - Attach your CV
  - Attach a copy of your transcript
  - Explain why you would like to work under their supervision

### **Funding & Awards**



- https://www.queensu.ca/sgs/prospective-students/applyingscholarships
- Canadian Institutes for Health Research (CIHR), NSERC
  - these are "Tri-Council" awards
- Queen's provides an automatic one-time top-up of \$5000 (Master's) or \$10,000 (PhD) to all incoming federal Tri-Council award winners
- Ontario Graduate Student Scholarship (OGS)
- Internal Awards

# Important websites

**University policies:** 

https://www.queensu.ca/safereturn/

**School of Graduate Studies:** 

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

**Faculty of Health Science**:

https://healthsci.queensu.ca/

