CLINICAL STUDIES

The Department of Clinical Studies offers graduate programs leading to MSc and DVSc degrees.

Administrative Staff

Chair
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Graduate Faculty

This list may include Regular Graduate Faculty, Associated Graduate Faculty and/or Graduate Faculty from other universities.

Sarah Abood
B.Sc., DVM Michigan, PhD Ohio - Assistant Professor
Associated Graduate Faculty

Anthony C. G. Abrams-Ogg
BA Alberta, DVM Saskatchewan, D.V.Sc. Guelph, Dipl. ACVIM - Professor
Graduate Faculty

Ryan Appleby
B.Sc. Western Ontario, DVM Guelph - Assistant Professor
Graduate Faculty

Luis Arroyo
DVM Nacional, D.V.Sc., PhD Guelph - Associate Professor
Graduate Faculty

Hugues Beaufrere
DVM Lyon, PhD Louisiana - Assistant Professor
Graduate Faculty

Alexa Bersenas
B.Sc., DVM, M.Sc. Guelph, Dipl. ACVECC - Associate Professor
Graduate Faculty

Shauna Blois
B.Sc., Mount Allison, DVM Prince Edward Island, D.V.Sc. Guelph, Dipl. ACVIM - Associate Professor
Graduate Faculty

Brigitte Brisson
DMV Montreal, D.V.Sc. Guelph, Dipl. ACVS - Professor
Graduate Faculty

Nathalie Cote
DVM Montreal, D.V.Sc., Guelph - Assistant Professor

Nicola Cribb
VetMB, MA Cambridge, D.V.Sc. Guelph, Dipl. ACVS - Assistant Professor
Associated Graduate Faculty

Alice Defarges
DVM Alfort, M.Sc. Montreal, Dipl. ACVIM - Assistant Professor
Graduate Faculty

Pauline Delnatte
DVM Toulouse, D.V.Sc. Guelph, Dipl. ACZM - Clinical Veterinarian, Toronto Zoo
Associated Graduate Faculty

Christopher J. Dutton
B.Sc., B.V.Sc., M.Sc. UK, Dipl. ACZM, Dipl. ECZM - Head of Veterinary Services, Toronto Zoo
Associated Graduate Faculty

Sonja Fonfara
DVM Hanover, Dr med vet Justus-Liebig (Germany), PhD Helsinki, CertVC, Dipl. ECVM - Associate Professor
Graduate Faculty

Luis Gaitero
DVM Barcelona, Diplomate ECVN - Assistant Professor
Graduate Faculty

Sarah Gardhouse
BSc, DVM Guelph - Clinical Specialist, Heath Sevices
Associated Graduate Faculty

Thomas Gibson
B.Sc. Guelph, B.Ed. Windsor, DVM, D.V.Sc. Guelph, Dipl. ACVS, Dipl. ACVSMR - Veterinarian, Grand River Surgical Services
Associated Graduate Faculty

Diego Gomez
DVM, M.Sc. Colombia, MSc Atlantic Veterinary, PhD Guelph, Dipl. ACVIM (LA) - Assistant Professor
Graduate Faculty

Joanne Hewson
DVM, PhD Guelph, Dipl. ACVIM (LA) - Associate Professor
Graduate Faculty

Fiona James
HB.Sc. Toronto, M.Sc. Western, DVM, D.V.Sc. Guelph, Dipl. ACVIM - Assistant Professor
Graduate Faculty

Monica Jensen
B.Sc., DVM, D.V.Sc. Guelph, Dipl. ACVR - Assistant Professor
Graduate Faculty

Carolyn L. Kerr
DVM, D.V.Sc. Guelph, PhD Western, Dipl. ACVAA - Professor
Graduate Faculty

Judith Koenig
DVM, M.Sc. Vet. Medicine (Austria), D.V.Sc. Guelph, Dipl. ACVS/ECVS - Associate Professor
Graduate Faculty

Cedric Larouche
DVM Montreal, D.V.Sc. Guelph - Staff Veterinarian, Toronto Zoo
Associated Graduate Faculty

Noel Moens
DVM Liege (Belgium), M.Sc. Saskatchewan, Dipl. ACVS/ECVS - Associate Professor
Clinical Studies
Graduate Faculty

Anthony Mutsaers
DVM Guelph, PH.D Toronto, Dip. ACVIM (Oncology) - Associate Professor
Graduate Faculty

Stephanie Nykamp
DVM, M.Sc. Western, Dipl ACVR - Associate Professor and Associate
Dean, Clinical Program
Graduate Faculty

Lynne O’Sullivan
DVM Prince Edward Island, D.V.Sc. Guelph, Dipl. ACVIM - Associate
Professor, Atlantic Veterinary College
Associated Graduate Faculty

Michelle Oblak
DVM, D.V.Sc. Guelph, Dipl. ACVS - Assistant Professor
Graduate Faculty

Chantale Pinard
DVM Guelph, MS Kansas State, Dipl. ACVO - Associate Professor
Graduate Faculty

Andrea Sanchez Lazaro
DVM Murcia, D.V.Sc. Guelph - Assistant Professor
Graduate Faculty

Melissa Sinclair
DVM Prince Edward Island, D.V.Sc. Guelph, Dipl. ACVAA - Associate
Professor
Graduate Faculty

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B.Sc. Mount Allison, DVM Atlantic Veterinary, D.V.Sc. Guelph, Dipl. ACVS -
Assistant Professor
Graduate Faculty

Henry Staempfli
DVM, Dr. Med. Vet. Dipl. ACVIM - Retired Faculty, Clinical Studies,
University of Guelph
Associated Graduate Faculty

E.A. Stone
BA Scripps College, DVM UC Davis, MS Georgia, MPP Duke - Professor Emerita

Donald Trout
BS, DVM Washington State, PhD California, Dipl. ACVS - Associate
Professor
Graduate Faculty

Alexander Valverde
DVM Costa Rica, D.V.Sc. Guelph, Dipl. ACVAA - Associate Professor
Graduate Faculty

Adronie Verbrugghe
B.Sc., DVM, PhD Ghent (Belgium), Dipl. ECVCN - Assistant Professor
Graduate Faculty

Laurent Viel
DVM Montreal, M.Sc., PhD, Diploma in LAM Guelph - Professor Emeritus
Associated Graduate Faculty

J. Paul Woods
DVM Guelph, MS Wisconsin, Dipl. ACVIM (Internal Medicine, Oncology) -
Professor
Graduate Faculty

Alexander Zur Linden
B.Sc. Simon Fraser, DVM Saskatchewan DACVR - Assistant Professor
Graduate Faculty

MSc Program

Admission Requirements
Candidates must have either an honours baccalaureate degree or a
DVM degree; licensure to practice veterinary medicine in Ontario is not
required.

Candidates are accepted based on adequate background preparation and
availability of an advisor in the area of interest. Applicants should contact
potential faculty advisors with established research programs listed in
the department website (http://ovc.uoguelph.ca/clinical-studies/).

Acceptance into the MSc thesis program will be dependent on stipend
funding opportunities that may be available through faculty advisors,
scholarships or sponsorship. The is usually no stipend support for MSc
course work students.

Program Requirements
Students enrol in one of two study options:
1. thesis, or
2. course work and major research paper.

Thesis
The thesis option requires a minimum of 6 semesters (2 years) of full
time study. The program provides focused research training in areas
related to veterinary medicine. Research projects may examine aspects
of clinical practice or concepts but are not considered discipline or
specialty training.

The program involves a minimum of three 0.50 credit graduate level
courses. Candidates are required to carry out an independent research
study and produce a thesis. The course selection will be made by the
student in consultation with the advisory committee and tailored to
the student’s particular research interest, and will be approved by the
departmental Graduate Studies and Research Committee.

Course Work and Major Research Project (MRP)
The course work option requires a minimum of 3 semesters (1 year) of
full time study. The program provides course work and focused research
training in areas related to veterinary medicine. Research projects may
examine aspects of clinical practice but are not considered discipline or
specialty training.

The course work plus major project option will comprise a minimum of
4 credits, including six 0.5-credit graduate courses and a mandatory 1.0
credit, 2-semester major project course. The major project course will
be supervised by the student’s advisory committee, and will consist of a
literature review, participation in a research project related to veterinary
medicine, preparation of a manuscript suitable for publication in a
peer-reviewed scientific journal, and presentation in a Departmental
seminar. A mark will be assigned by the advisory committee, based on the
manuscript and oral presentation.

There are no required courses beyond the 1.0 credit project course. The
remaining courses will be chosen from courses within the Department
of Clinical Studies and other courses provided across the University. The course selection will be made by the student in consultation with the advisory committee and tailored to the student’s particular research interest, and will be approved by the departmental Graduate Studies and Research Committee.

**DVSc Program**

The DVSc degree is offered in large animal surgery, small animal surgery, large animal medicine, small animal medicine, anesthesiology, cardiology, neurology, ophthalmology, radiology, emergency and critical care, companion animal nutrition and avian and exotics medicine depending upon availability. The program provides advanced academic preparation in both clinical training and research and is a unique post-professional doctoral-level degree. The DVSc differs from PhD training by emphasizing the development of both clinical research and applied skills in the various areas of clinical specialization appropriate for preparation for specialty Board certification.

Doctor of Veterinary Science positions are usually funded positions, and are usually advertised and selected through the American Association of Veterinary Clinicians’ website at www.virmp.org (http://www.virmp.org) which can be accessed in early October. The start date is early August. Occasionally specialty training positions become available and are advertised on our website and through appropriate veterinary channels.

The DVSc is currently an interdepartmental program and receives input from all academic departments in the Ontario Veterinary College (OVC):

- Biomedical Sciences,
- Clinical Studies,
- Pathobiology and
- Population Medicine.

**Admission Requirements**

Minimum of Ontario Equivalent average of ‘B’ (73% minimum) or GPA 3.0/4.0 in a doctor veterinary medicine (DVM) program or equivalent which would allow the applicant to be eligible for licensure to practice veterinary medicine in Ontario. In addition a completed internship or equivalent is usually required.

**Program Requirements**

This program involves two-thirds of the time in applied clinical practice, and one-third of the time taking a minimum of five 0.5-credit graduate courses, conducting a research project related to the veterinary specialty, a written and oral qualifying exam to be taken before the end of the 6th semester, writing a thesis in a publication ready format, and a thesis defense in front of an examination committee. Candidates are required to develop investigative skills in their chosen area of specialization by carrying out an original study, generally related to animal health. The results of the research must make a significant contribution to the candidate’s area of specialization and be written up as a thesis. Five graduate level courses are required.

**Collaborative Specializations**

Faculty in Clinical Studies also participate in the collaborative specializations in Neuroscience (calendar.uoguelph.ca/graduate-calendar/collaborative-specializations/neuroscience/) and Regenerative Medicine (calendar.uoguelph.ca/graduate-calendar/graduate-programs-clinical-studies/graduate-calendar/collaborative-specializations/regenerative-medicine/).

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**Courses**

**CLIN*6010 Clinical Medicine F Fall Only [0.50]**

These are in-service clinical training courses based on case material presented to the student in the Veterinary Teaching Hospital. Under supervision, the student is expected to take primary responsibility for case management including decisions related to diagnosis, therapy and client/referring veterinarian communications. Case material studied in each course reflects a different clinical subspecialty commonly occurring in the Fall (F), Winter (W), and Summer (S) semesters respectively.

**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6030 Clinical Medicine W Winter Only [0.50]**

These are in-service clinical training courses based on case material presented to the student in the Veterinary Teaching Hospital. Under supervision, the student is expected to take primary responsibility for case management including decisions related to diagnosis, therapy and client/referring veterinarian communications. Case material studied in each course reflects a different clinical subspecialty commonly occurring in the Fall (F), Winter (W), and Summer (S) semesters respectively.

**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6031 Clinical Medicine S Summer Only [0.50]**

These are in-service clinical training courses based on case material presented to the student in the Veterinary Teaching Hospital. Under supervision, the student is expected to take primary responsibility for case management including decisions related to diagnosis, therapy and client/referring veterinarian communications. Case material studied in each course reflects a different clinical subspecialty commonly occurring in the Fall (F), Winter (W), and Summer (S) semesters respectively.

**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6170 Clinical Surgery F Fall Only [0.50]**

These are in-service clinical training courses based on case material presented to the student in the Veterinary Teaching Hospital. Under supervision, the student is expected to take primary responsibility for case management including decisions related to diagnosis, therapy and client/referring veterinarian communications. Case material studied in each course reflects a different clinical subspecialty occurring in Fall (F), Winter (W), and Summer (S) semesters respectively. The student is required to prepare a paper for publication in a recognized peer review journal based on clinical case material presented to the teaching hospital. As an alternative, the paper can be an in-depth review article on a clinically relevant topic.

**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6180 Clinical Surgery W Winter Only [0.50]**

These are in-service clinical training courses based on case material presented to the student in the Veterinary Teaching Hospital. Under supervision, the student is expected to take primary responsibility for case management including decisions related to diagnosis, therapy and client/referring veterinarian communications. Case material studied in each course reflects a different clinical subspecialty occurring in Fall (F), Winter (W), and Summer (S) semesters respectively. The student is required to prepare a paper for publication in a recognized peer review journal based on clinical case material presented to the teaching hospital. As an alternative, the paper can be an in-depth review article on a clinically relevant topic.

**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph
These are in-service clinical training courses based on case material presented to the student in the Veterinary Teaching Hospital. Under supervision, the student is expected to take primary responsibility for case management including decisions related to diagnosis, therapy and client/referring veterinarian communications. Case material studied in each course reflects a different clinical subspecialty occurring in Fall (F), Winter (W), and Summer (S) semesters respectively. The student is required to prepare a paper for publication in a recognized peer review journal based on clinical case material presented to the teaching hospital. As an alternative, the paper can be an in-depth review article on a clinically relevant topic.

**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6190 Neurology Fall Only [0.50]**  
Basic principles of lesion localization in the domestic species with discussions of diagnostic problems in veterinary neurology. Offered alternate years.  
**Restriction(s):** Instructor consent required.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6200 Concepts and Application of Infection Control Unspecified [0.50]**  
This course will involve principles of infection control in veterinary hospitals, drawing heavily from information from human medicine and evaluating human information in a veterinary context.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6270 Applied Surgical Principles Unspecified [0.25]**  
General surgical principles associated with surgical and related treatment of various body systems. This is an applied course with laboratory and written components. Prerequisite: must have prior surgical training.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6310 Advanced Equine Veterinary Orthopaedics Orthopaedics Unspecified [0.50]**  
This course will provide the student with an in-depth understanding of orthopedic practice and will facilitate revision of materials to prepare board certification.  
**Restriction(s):** Instructor consent required.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6330 Advanced Principles of Diagnostic Imaging Unspecified [0.50]**  
This course is intended for students pursuing a career in veterinary radiology. Using a lecture-discussion format, the science of x-ray production and the fundamentals of other diagnostic imaging modalities will be presented. The specific applications of these techniques to research and clinical situations will be investigated.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6350 Advanced Radiology I Summer, Fall, and Winter [0.50]**  
Radiographic changes seen in diseases of the thorax and abdomen are demonstrated by using radiographs. Contrast and special studies are included where applicable.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6370 Advanced Radiology II Fall Only [0.50]**  
A continuation of CLIN*6350, covering radiographic abnormalities of the neurological and skeletal systems.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6380 Electrocardiography in Domestic Animals Summer, Fall, and Winter [0.50]**  
This course will deal with the study of the electrocardiography of the cat, dog, cow and horse. Students will review the mechanisms of arrhythmogenesis and the role of anti-arrhythmic agents in the control of arrhythmogenesis.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6420 Anesthesiology I Summer Only [0.50]**  
A course in advanced veterinary anesthesia and allied topics such as fluid, acid-base, and electrolyte balance, shock therapy, and cardio pulmonary resuscitation.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6440 Anesthesiology II Summer, Fall, and Winter [0.50]**  
A discussion, reading and investigative course on research methods in comparative anesthesiology.  
**Prerequisite(s):** CLIN*6420  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6460 Anesthesiology III: Species Specific and Coexisting Disease Considerations Fall and Winter Reg Required [0.50]**  
A course in advanced veterinary anesthesia that focuses on the scientific literature related to the anesthesia of specific species and veterinary patients with varying underlying diseases.  
**Prerequisite(s):** CLIN*6420 and CLIN*6440  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6550 Small Animal Internal Medicine I Unspecified [0.50]**  
This is a graduate course designed for DVSc students and residents pursuing further study in the area. The basis of the course is the acquisition and application of knowledge of the pathophysiologic mechanisms of disease. The subject area(s) will be one or two organ systems, which will not be repeated in either CLIN*6550 or CLIN*6560 over a 3-year period.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6560 Small Animal Internal Medicine II Unspecified [0.50]**  
This is a graduate course designed for DVSc students and residents pursuing further study in the area. The basis of the course is the acquisition and application of knowledge of the pathophysiologic mechanisms of disease. The subject area(s) will be one or two organ systems, which will not be repeated in either CLIN*6550 or CLIN*6560 over a 3-year period.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph

**CLIN*6570 Large Animal Internal Medicine I Winter Only [0.50]**  
Advanced study in general medicine and pathophysiologic principles of disorders of the gastrointestinal and urinary systems in ruminants, swine and horses. Offered every third year.  
**Department(s):** Department of Clinical Studies  
**Location(s):** Guelph
CLIN*6580 Large Animal Internal Medicine II Winter Only [0.50]
Advanced study in general medicine and the pathophysiologic principles of disorders of the cardiovascular, respiratory and musculo-skeletal systems of ruminants and horses. Offered every third year.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6590 Large Animal Internal Medicine III Winter Only [0.50]
Advanced study in general medicine and the pathophysiologic principles of neonatal disorders and disorders of the nervous system, skin and general systemic disorders. Offered every third year.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6600 Equine Soft Tissue Surgery I Summer, Fall, and Winter [0.50]
Based on required reference reading, every other week discussion will cover advanced soft tissue procedures performed in equine surgery. Guest lectures on selected topics will be presented. Laboratory will be given.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6610 Equine Soft Tissue Surgery II Summer, Fall, and Winter [0.50]
Based on required reference reading, every other week discussion will cover advanced soft tissue procedures performed in equine surgery. Guest lectures on selected topics will be presented. Laboratory will be given.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6620 Ruminant Surgery Winter Only [0.50]
Through lectures/seminars, medical and surgical laboratories, and detailed case discussions, this course provides practical experience in ruminant medical, radiological and surgical procedures and in problem-solving related to ruminant practice.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6660 Respiratory Physiology & Pathophysiology Unspecified [0.50]
This is a graduate course designed for veterinarians pursuing advanced training in residency and DVSc programs. The course will cover normal respiratory anatomy, physiology and pulmonary function. A focus on respiratory pathophysiology will include respiratory failure, oxygen therapy and positive pressure ventilation. (offered every three years).
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6670 Structure and Function of Animal Skin Summer, Fall, and Winter [0.50]
A review of structure and function of skin in veterinary dermatology including the epidermis, dermis, subcutis and adnexal tissue. Application of knowledge in a clinical setting will follow with attention to modalities that will improve the epidermal barrier
Restriction(s): Instructor consent required.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6680 Readings in Cardiology I Summer, Fall, and Winter [0.50]
Original articles, review articles and textbook chapters dealing with the most recent concepts of pathophysiology, diagnostic procedures and therapeutic advancements will be reviewed, analyzed and discussed.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6690 Readings in Cardiology II Summer, Fall, and Winter [0.50]
Readings in Cardiology II will be a continuation of the format of Readings in Cardiology I with further readings in clinical cardiology.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6700 Pathophysiology in Small Animal Surgery I Summer, Fall, and Winter [0.50]
Based on required reference reading, weekly discussions will cover the disease mechanisms involved in medical problems commonly encountered in small animal surgical practice. Guest lectures on selected topics will be presented.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6710 Pathophysiology in Small Animal Surgery II Summer, Fall, and Winter [0.50]
Based on required reference reading, weekly discussions will cover the disease mechanisms involved in medical problems commonly encountered in small animal surgical practice. Guest lectures on selected topics will be presented.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6800 Surgical Oncology Procedures Fall and Winter [0.50]
This is a combined reading and laboratory course that will cover the major surgical oncology procedures. The relevant readings will be covered, followed by a cadaver laboratory to teach the students the important features of each procedure.
Offering(s): Offered alternate years
Restriction(s): Instructor consent required.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6910 Professional Veterinary Communication Competencies Fall and Winter Reg Required [0.50]
This course assists learners in developing professional competencies in several critical areas of professional veterinary practice: 1) the veterinary-patient-client relationship; 2) the preparation and delivery of professional seminars; and 3) clinical teaching in small groups.
Restriction(s): Students in Clinical Studies
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6950 Special Topics in Clinical Studies Summer, Fall, and Winter [0.50]
Restriction(s): Restricted to Clinical Studies students.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6960 Special Topics in Zoological Medicine Fall and Winter [0.50]
Preparation for the ACZM examination and based on the published ACZM examination reading list. Students will prepare reading assignments that will be discussed during scheduled time. Each semester will focus on a specific taxon group. A mock examination will be provided on an ACZM sub-specialty (typically birds, reptiles, wildlife, terrestrial mammals or aquatic medicine).
Restriction(s): Instructor consent required.
Department(s): Department of Clinical Studies
Location(s): Guelph
CLIN*6970  Neurology II  Unspecified [0.50]
Advanced study in neurolocalization with a focus on functional neuroanatomy and diagnostic procedures in the domestic species. This two-semester course is offered every 2-3 years.
Restriction(s): Instructor consent required.
Department(s): Department of Clinical Studies
Location(s): Guelph

CLIN*6990  Project in Clinical Studies  Summer, Fall, and Winter [1.00]
This course involves participation in a clinical research project or clinical retrospective study. A review of the relevant literature will be performed. A manuscript suitable for publication in a peer-reviewed journal will be prepared, and the study will be presented in a departmental seminar.
Restriction(s): Restricted to students in the MSc by coursework program.
Department(s): Department of Clinical Studies
Location(s): Guelph