The information published in this Graduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2019-2020 academic year, including the Summer Semester 2019, Fall Semester 2019 and the Winter Semester 2020.

For your convenience the Graduate Calendar is available in PDF format.

If you wish to link to the Graduate Calendar please refer to the Linking Guidelines.

The University is a full member of:

• Universities of Canada

Contact Information:

University of Guelph
Guelph, Ontario, Canada
N1G 2W1
519-824-4120

Revision Information:

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 1, 2019</td>
<td>Initial Publication</td>
</tr>
<tr>
<td>June 28, 2019</td>
<td>Revision 1</td>
</tr>
<tr>
<td>September 2, 2019</td>
<td>Revision 2</td>
</tr>
<tr>
<td>December 10, 2019</td>
<td>Revision 3</td>
</tr>
<tr>
<td>January 28, 2020</td>
<td>Revision 4</td>
</tr>
</tbody>
</table>
Disclaimer
The Office of Graduate and Postdoctoral Studies has attempted to ensure the accuracy of this on-line Graduate Calendar. However, the publication of information in this document does not bind the university to the provision of courses, programs, schedules of studies, fees, or facilities as listed herein.

Limitations
The University of Guelph reserves the right to change without notice any information contained in this calendar, including any rule or regulation pertaining to the standards for admission to, the requirements for the continuation of study in, and the requirements for the granting of degrees or diplomas in any or all of its programs.

The university will not be liable for any interruption in, or cancellation of, any academic activities as set forth in this calendar and related information where such interruption is caused by fire, strike, lock-out, inability to procure materials or trades, restrictive laws or governmental regulations, actions taken by the faculty, staff or students of the university or by others, civil unrest or disobedience, Public Health Emergencies, or any other cause of any kind beyond the reasonable control of the university.

The University of Guelph reaffirms section 1 of the Ontario Human Rights Code, 1981, which prohibits discrimination on the grounds of race, ancestry, place of origin, colour, ethnic origin, citizenship, creed, sex, sexual orientation, handicap, age, marital status or family status.

The university encourages applications from women, aboriginal peoples, visible minorities, persons with disabilities, and members of other under-represented groups.
Introduction

Collection, Use and Disclosure of Personal Information

Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (FIPPA) http://www.e-laws.gov.on.ca/DLB/Laws/Statutes/English/90f31_e.htm. This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes. Certain personal information is disclosed to external agencies, including the Ontario Universities Application Centre, the Ministry of Advanced Education and Skills Development, and Statistics Canada, for statistical and planning purposes, and is disclosed to other individuals or organizations in accordance with the Office of Registrarial Services Departmental Policy on the Release of Student Information. For details on the use and disclosure of this information call the Office of Registrarial Services at the University at (519) 824-4120 or see https://www.uoguelph.ca/registrar/

Statistics Canada - Notification of Disclosure

For further information, please see Statistics Canada's web site at http://www.statcan.gc.ca and Section XIV Statistics Canada.

Address for University Communication

Depending on the nature and timing of the communication, the University may use one of these addresses to communicate with students. Students are, therefore, responsible for checking all of the following on a regular basis:

Email Address

The University issued email address is considered an official means of communication with the student and will be used for correspondence from the University. Students are responsible for monitoring their University-issued email account regularly.

Home Address

Students are responsible for maintaining a current mailing address with the University. Address changes can be made, in writing, through Registrarial Services.

Name Changes

The University of Guelph is committed to the integrity of its student records, therefore, each student is required to provide either on application for admission or on personal data forms required for registration, their complete, legal name. Any requests to change a name, by means of alteration, deletion, substitution or addition, must be accompanied by appropriate supporting documentation.

Student Confidentiality and Release of Student Information Policy Excerpt

The University undertakes to protect the privacy of each student and the confidentiality of their record. To this end the University shall refuse to disclose personal information to any person other than the individual to whom the information relates where disclosure would constitute an unjustified invasion of the personal privacy of that person or of any other individual. All members of the University community must respect the confidential nature of the student information which they acquire in the course of their work.

Complete policy at https://www.uoguelph.ca/secretariat/office-services/university-secretariat/university-policies.
Learning Outcomes

Graduate Degree Learning Outcomes

On May 27, 2013, the University of Guelph Senate approved the following five University-wide Learning Outcomes as the basis from which to guide the development of graduate degree programs, specializations and courses:

1. Critical and Creative Thinking
2. Literacy
3. Global Understanding
4. Communication
5. Professional and Ethical Behaviour

These learning outcomes are also intended to serve as a framework through which our educational expectations are clear to students and the broader public; and to inform the process of outcomes assessment through the quality assurance process (regular reviews) of programs and departments.

An on-line guide to the learning outcomes, links to the associated skills, and detailed rubrics designed to support the development and assessment of additional program and discipline-specific outcomes, are available for reference on the Learning Outcomes website.

Critical and Creative Thinking

Critical and creative thinking is a concept in which one applies logical principles, after much inquiry and analysis, to solve problems with a high degree of innovation, divergent thinking and risk taking. Those mastering this outcome show evidence of integrating knowledge and applying this knowledge across disciplinary boundaries. Depth and breadth of understanding of disciplines is essential to this outcome. At the graduate level, originality in the application of knowledge (master’s) and undertaking of research (doctoral) is expected.

In addition, Critical and Creative Thinking includes, but is not limited to, the following outcomes: Independent Inquiry and Analysis; Problem Solving; Creativity; and Depth and Breadth of Understanding.

Literacy

Literacy is the ability to extract information from a variety of resources, assess the quality and validity of the material, and use it to discover new knowledge. The comfort in using quantitative literacy also exists in this definition, as does using technology effectively and developing visual literacy.

In addition, Literacy includes, but is not limited to, the following outcomes: Information Literacy, Quantitative Literacy, Technological Literacy, and Visual Literacy.

Global Understanding

Global understanding encompasses the knowledge of cultural similarities and differences, the context (historical, geographical, political and environmental) from which these arise, and how they are manifest in modern society. Global understanding is exercised as civic engagement, intercultural competence and the ability to understand an academic discipline outside of the domestic context.

In addition, Global Understanding includes, but is not limited to, the following outcomes: Global Understanding, Sense of Historical Development, Civic Knowledge and Engagement, and Intercultural Competence.

Communication

Communication is the ability to interact effectively with a variety of individuals and groups, and convey information successfully in a variety of formats including oral and written communication. Communication also comprises attentiveness and listening, as well as reading comprehension. It includes the ability to communicate and synthesize information, arguments, and analyses accurately and reliably.

In addition, Communication includes, but is not limited to, the following outcomes: Oral Communication, Written Communication, Reading Comprehension, and Integrative Communication.

Professional and Ethical Behaviour

Professional and ethical behaviour requires the ability to accomplish the tasks at hand with proficient skills in teamwork and leadership, while remembering ethical reasoning behind all decisions. The ability for organizational and time management skills is essential in bringing together all aspects of managing self and others. Academic integrity is central to mastery in this outcome. At the graduate level, intellectual independence is needed for professional and academic development and engagement.

In addition, Professional and Ethical Behaviour includes, but is not limited to, the following outcomes: Teamwork, Ethical Reasoning, Leadership, Personal Organization and Time Management, and Intellectual Independence.
## Table of Contents

**Clinical Studies** ................................................................. 60
  - Administrative Staff .......................................................... 60
  - Graduate Faculty .............................................................. 60
  - Associated Graduate Faculty .................................................. 60
  - MSc Program ........................................................................ 60
  - DVSc Program ....................................................................... 61
  - Graduate Diploma Program ...................................................... 61
  - Collaborative Specializations ................................................... 61
  - Courses ................................................................................. 61
Clinical Studies

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

Administrative Staff

Chair
Carolyn Kerr (2141 OVC, Ext. 54051)
ckerr@uoguelph.ca

Graduate Program Coordinator
Tom Gibson (2130 Clinical Studies, Ext. 54325)
tgibson@uoguelph.ca

Graduate Program Assistant - DVSc
Jessie Beer (2509 Stewart Building, Ext. 54725)
vovcsas.graddvsc@uoguelph.ca

Graduate Program Assistant - MSc and GDip
Katherine Versen (2509 Stewart Building, Ext. 54780)
csgrad@uoguelph.ca

Graduate Faculty

Anthony C.G. Abrams-Ogg
BA Alberta, DVM Saskatchewan, DVSc Guelph, Dipl. ACVIM - Professor

Luis Arroyo
DVM Nacional, DVSc, PhD Guelph - Associate Professor

Shane Bateman
DVM, DVSc, Dipl. ACVECC - Associate Professor

Hugues Beauffreire
DVM Lyon, PhD Louisiana - Assistant Professor

Alexa Bersenas
BSc, DVM, MS Guelph, Dipl. ACVECC - Associate Professor

Shauna Blois
BSc, Mount Allison, DVM Prince Edward Island, DVSc Guelph, Dipl. ACVIM - Associate Professor

Brigitte Brisson
DMV Montreal, DVSc Guelph, Dipl. ACVS - Professor

Heather Chalmers
BSc, DVM, PhD Guelph, Dipl. ACVR - Associate Professor

Alice Defarges
DVM France (Alfort), MSc Montreal, Dipl. ACVIM - Assistant Professor

Sonja Fonfara
DVM, Dr med vet, PhD, CertVC, Dipl. ECVIM - Associate Professor

Luis Gaitero
DVM, Diplomate ECVN - Associate Professor

Thomas Gibson
BSc Guelph, BEld Windsor, DVM, DVSc Guelph, Dipl. ACVS, Dipl. ACVSMR - Associate Professor and Graduate Program Coordinator

Joanne Hewson
DMV, PhD Guelph, Dipl. ACVIM (LA) - Associate Professor

Samuel Hocker
BS Illinois, DVM, MS Kansas - Assistant Professor

Mark M. Hurtig
DVM Guelph, MVSc Saskatchewan, Dipl. ACVS - Professor

Fiona James
HBSc Toronto, MSc Western, DVM, DVSc Guelph, Dipl. ACVIM - Assistant Professor

Carolyn L. Kerr
DVM, DVSc Guelph, PhD Western, Dipl. ACVAA - Professor and Chair

Judith Koenig
DVM, MSc Vet. Medicine (Austria), DVSc Guelph, Dipl. ACVS/ECVMS - Associate Professor

Noel Moens
DVM Liege (Belgium), MSc Saskatchewan, Dipl. ACVS/ECVMS - Associate Professor

Anthony Mutsaers
DVM Guelph, PhD Toronto, Dipl. ACVIM - Assistant Professor

Stephanie Nykamp
DVM, MSc Western, Dipl ACVR - Associate Professor & Associate Dean, Clinical Program

Michelle Oblak
DVM, DVSc Guelph, Dipl. ACVS - Assistant Professor

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

Andrea Sanchez Lazaro
DVM Murcia, DVSc Guelph - Assistant Professor

Melissa Sinclair

DVM Prince Edward Island, DVSc Guelph, Dipl. ACVAA - Associate Professor

Ameet Singh
BSc Mount Allison, DVM Atlantic Veterinary College, DVSc Guelph, Dipl. ACVS - Assistant Professor

Elizabeth A. Stone
BA Scripps College, DVM California (Davis), MS Georgia, MPP Duke - Professor

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

Alexander Valverde
DVM Nacional (Costa Rica), DVSc Guelph, Dipl. ACVAA - Associate Professor

Adronie Verbrugghe
BSc, DVM, PhD Ghent, Dipl. ECVCN - Assistant Professor

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

Alexander Zur Linden
BSc Simon Fraser, DVM Saskatchewan DACVR - Assistant Professor

Associated Graduate Faculty

Sarah Aboud
BSc, DVM Michigan, PhD Ohio - Assistant Professor, Contractually Limited Faculty, Clinical Studies, University of Guelph

Nicola Cribb
VetMB, MA Cambridge, DVSc Guelph, Dipl. ACVS - Assistant Professor, Large Animal Surgery, OVC, University of Guelph

Lyne O'Sullivan
DVM Prince Edward Island, DVSc Guelph, Dipl. ACVIM - Associate Professor, Atlantic Veterinary College

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.

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

Thesis
The thesis option 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. Candidates are accepted based on 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.

Positions are generally not funded by the researcher. Qualified applicants need to provide their own living expenses and tuition funds, or obtain a scholarship or sponsorship by an organization.

We do not offer a clinical Master of Science program.

The program involves a minimum of 3 courses, a research project and writing of a thesis. Candidates are required to carry out an independent experimental study and produce a thesis. Three graduate level courses are required.

Course Work and Major Research Project (MRP)
The course work plus major project option will comprise a minimum of 4.5 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 clinical research project or retrospective study, 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 will be no required courses beyond the 1.0 credit project course. The remaining courses will be chosen from courses currently provided by the Department of Clinical Studies and other Ontario Veterinary College Departments, and will be tailored to the student’s particular research interests. It is anticipated that most courses will be taken from within the Department. Undergraduate courses will not normally be eligible for credit toward this program. Course selection will be made by the student in consultation with the advisory committee, and will be approved by the departmental Graduate Studies and Research Committee. This option will normally require a minimum of 3 semesters of full-time study.
**DVSc Program**

The DVSc degree is offered in large animal surgery, small animal surgery, large animal medicine, small animal medicine, anaesthesiology, cardiology, neurology, ophthalmology, dermatology and radiology, 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 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 which can be accessed in early October. Completed applications are due to us by December 1st each year, announcements made in early March and the start date is mid-July. Occasionally specialty training positions become available and are advertised on our website, as well as in the Canadian Veterinary Journal. This program involves one-third of the time taking a minimum of 5 graduate courses, conducting a research project and writing a thesis on the research, and two-thirds of the time in applied clinical practice. Applicants must be eligible to be licensed by the College of Veterinarians of Ontario.

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**

A doctor of veterinary medicine (DVM) 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**

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.

**Graduate Diploma Program**

The diploma program in clinical studies was introduced to provide appropriate postgraduate discipline training for veterinarians who wish to improve their expertise in a specific area. It entails a full-time three-semester program for candidates who are veterinarians with limited time for graduate study but who desire to upgrade their knowledge and skills. The program requires the completion of formal graduate courses and extensive participation in the care of animals admitted to the Veterinary Teaching Hospital.

Clinical instruction is done using a service team concept, wherein a graduate diploma student interacts with DVSc students and faculty advisors. It is expected that graduates will return to private practice with enhanced clinical skills, or progress into MSc or internship programs.

Candidates are accepted based on adequate background preparation and availability of an advisor in the area of interest. Applicants should contact potential faculty advisors listed in the department website. This program is not intended to upgrade general knowledge to North American standards nor is this program intended to prepare foreign graduates for national board exams.

**Admission Requirements**

Admission to a postgraduate diploma program as a regular student may be granted, on recommendation of the department, to the holder of a recognized DVM degree (or equivalent) with at least ‘B’ standing during the final two years of study.

**Program Requirements**

The student is assigned an advisor who is responsible for the planning and regular review of the program of the candidate. A thesis is not required. Both undergraduate and graduate courses may be taken and, when appropriate for the student, a review manuscript suitable for publication in a refereed scientific journal is prepared. For some students, a heavier course load is substituted for the manuscript requirement.

**Collaborative Specializations**

Faculty in Clinical Studies also participate in the collaborative specialization in Neuroscience.

**Courses**

**Medicine**

**CLIN*6010 Clinical Medicine F [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

**CLIN*6030 Clinical Medicine W [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

**CLIN*6031 Clinical Medicine S [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

**CLIN*6190 Neurology F [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

**CLIN*6200 Concepts and Application of Infection Control U [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

**CLIN*6380 Electrocardiography in Domestic Animals F,W,S [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

**CLIN*6550 Small Animal Internal Medicine I U [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

**CLIN*6550 Small Animal Internal Medicine II U [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

**CLIN*6570 Large Animal Internal Medicine I W [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

**CLIN*6580 Large Animal Internal Medicine II W [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

**CLIN*6590 Large Animal Internal Medicine III W [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

**CLIN*6661 Respiratory Physiology & Pathophysiology U [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
Instructor consent required.

Department of Clinical Studies

CLIN*6420 is normally a prerequisite

Department(s): Department of Clinical Studies

DVM or BSc

Department(s): Department of Clinical Studies

This course will provide the student with an in-depth understanding of orthopaedic practice and will facilitate revision of materials to prepare board certification.

Prerequisite(s): DVM or BSc

Department(s): Department of Clinical Studies

Anesthesiology

CLIN*6420 Anesthesiology I S [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

CLIN*6440 Anesthesiology II F,W,S [0.50]

A discussion, reading and investigative course on research methods in comparative anesthesiology.

Prerequisite(s): CLIN*6420 is normally a prerequisite

Department(s): Department of Clinical Studies

Radiology

CLIN*6350 Advanced Radiology I F,W,S [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

General

CLIN*6910 Professional Veterinary Communication Competencies F-W [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
CLIN*6920 Veterinary Clinical Practice I F [0.50]
These are in-service clinical training courses for intern/graduate-diploma students based on case material presented to the Veterinary Teaching Hospital. Under supervision, the intern/graduate-diploma student, as part of a service team with a faculty clinician, is expected to hone their diagnostic, therapeutic and surgical skills, and gain experience with animal restraint and nursing care. They will also develop a problem-oriented approach to health management and disease. Case material studied in each course reflects the clinical problems commonly occurring in the Fall, Winter and Summer semesters respectively.

Restriction(s): Instructor consent required.
Department(s): Department of Clinical Studies

CLIN*6930 Veterinary Clinical Practice II W [0.50]
These are in-service clinical training courses for intern/graduate-diploma students based on case material presented to the Veterinary Teaching Hospital. Under supervision, the intern/graduate-diploma student, as part of a service team with a faculty clinician, is expected to hone their diagnostic, therapeutic and surgical skills, and gain experience with animal restraint and nursing care. They will also develop a problem-oriented approach to health management and disease. Case material studied in each course reflects the clinical problems commonly occurring in the Fall, Winter and Summer semesters respectively.

Restriction(s): Instructor consent required.
Department(s): Department of Clinical Studies

CLIN*6940 Veterinary Clinical Practice III S [0.50]
These are in-service clinical training courses for intern/graduate-diploma students based on case material presented to the Veterinary Teaching Hospital. Under supervision, the intern/graduate-diploma student, as part of a service team with a faculty clinician, is expected to hone their diagnostic, therapeutic and surgical skills, and gain experience with animal restraint and nursing care. They will also develop a problem-oriented approach to health management and disease. Case material studied in each course reflects the clinical problems commonly occurring in the Fall, Winter and Summer semesters respectively.

Restriction(s): Instructor consent required.
Department(s): Department of Clinical Studies

CLIN*6950 Special Topics in Clinical Studies F,W,S [0.50]
Department(s): Department of Clinical Studies

CLIN*6990 Project in Clinical Studies F,W,S [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): Only available to students enrolled in the MSc by Coursework Program.
Department(s): Department of Clinical Studies