

## **CLIN\*6460 Anesthesiology III Winter [0.50]**

### **Title:**

Species Specific and Co-existing Disease

### **Course Coordinators:**

### **Description:**

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.

This course focuses on diseases and pathophysiologic mechanisms that can affect different species and alter the anesthetic approach during patient management. It is being offered to graduate veterinary students pursuing advanced training in Doctorate of Veterinary Science in the areas of anesthesia, critical care, cardiology, internal medicine, and surgery.

The course will provide the graduate student with the opportunity to review the pathophysiology of specific diseases and their impact on anesthetic management, including pre-anesthetic preparation of the patient, selection of anesthetic drugs, recommended monitoring, and intra- and post-operative management.

### **1. Course Objectives:**

- 1) Understand the pathophysiology of specific diseases
- 2) Describe the impact of specific diseases on anesthetic management
- 3) Formulate an anesthetic plan appropriate for case management of specific diseases

### **2. Material to be covered:**

This course consists of topic assignment and presentations with discussion. One topic per week.

Each student will be assigned one to two (1-2) topics for their presentations, which should be prepared in a concise and schematic way, with a handout that will allow the participants to have a summary of the topics at the end of the course. All graduate students enrolled and auditing the course will be assigned presentations. Some of the course topics will be presented by Faculty. Anesthesia faculty will attend sessions to provide feedback and participate in all topic discussion.

The following format is recommended for preparing the presentation:

- 1) Description of the disease and its pathophysiology
- 2) Impact of the disease on the anesthetic management of the patient
- 3) Selection of anesthetic drugs and techniques
- 4) Monitoring during anesthesia
- 5) Current veterinary literature

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The following topics are divided into lectures/system. Topics will be assigned after the numbers of graduate student enrolled have been finalized. Tentative Dates are as follows for your assigned topics:

### **I. Gastrointestinal System**

#### **Lecture 1 –**

- Gastrointestinal disease (Inflammatory disease, GDV, foreign body)

#### **Lecture 2 –**

- Liver

### **II. Cardiovascular system**

**Lecture 3** –Congenital and acquired cardiovascular disease (Valves, DCM, HCM)

#### **Lecture 4 –**

- Arrhythmias

### **III. Respiratory System**

#### **Lecture 5 –**

- Respiratory disease (Recurrent airway obstruction [COPD], Feline asthma, Allergic Bronchitis)

### **IV. Central Nervous system**

#### **Lecture 6 –**

- Meningitis, Trauma, Seizures, Increased ICP, IVDD and myelography

### **IV. Endocrine System**

#### **Lecture 7 –**

- Thyroid and Parathyroid glands

#### **Lecture 8–**

- Adrenal glands (Pheochromocytoma, Hyper- and Hypo- adrenocorticism)

#### **Lecture 9 –**

- Pancreas (Pancreatitis, Diabetes)

### **V. Urinary System**

#### **Lecture 9 –**

- Kidney disease (Renal failure, Hypertension, Dialysis)

### **VII. Peripheral Neuromuscular System**

#### **Lecture 11 –**

- Channelopathies and muscle disorders (HYPP, MH, Dystonias, Myasthenia gravis)

### **3. Method of Evaluation:**

Assigned topics	40%
Written examination-	60%

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**4. Suggested References:**

1. Stoelting - Anesthesia and Co-Existing Disease
2. Lumb and Jones – 5<sup>th</sup> edition
3. Miller Anesthesia
4. Barash – Clinical Anesthesia

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### **Standard Statements – Graduate Course Outlines**

The following are standard statements for inclusion on all course outlines (adapted with permission from the College of Arts). Some departments or colleges may also elect to post this information on a common website and link to such sites in the course outline. However, it is strongly recommended that statements on academic misconduct and links to the academic misconduct section of the academic calendars be included in all course outlines.

As per university regulations, all students are required to check their <uoguelph.ca> e-mail account regularly: e-mail is the official route of communication between the University and its students.

#### When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course in writing, with your name, id#, and e-mail contact. See the graduate calendar for information on regulations and procedures for Academic Consideration:

[http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec\\_d0e1400.shtml](http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec_d0e1400.shtml)

#### Drop Date

The last date to drop one-semester courses, without academic penalty, is DATE HERE. Two-semester courses must be dropped by the last day of the add period in the second semester. Refer to the Graduate Calendar for the schedule of dates:

<http://www.uoguelph.ca/registrar/calendars/graduate/current/sched/sched-dates-f10.shtml>

#### Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection. The Academic Misconduct Policy is detailed in the Graduate Calendar:

[http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec\\_d0e1687.shtml](http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec_d0e1687.shtml)

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Recording of Materials

Presentations which are made in relation to course work—including lectures—cannot be recorded in any electronic media without the permission of the presenter, whether the instructor, a classmate or guest lecturer.

Resources

The Graduate Calendar is the source of information about the University of Guelph's procedures, policies and regulations which apply to graduate programs:

<http://www.uoguelph.ca/registrar/calendars/graduate/current/>