



VETM*4480 Comparative Medicine

Fall 2019

Section(s): C01

Department of Pathobiology

Credit Weight: 0.75

Version 1.00 - August 22, 2019

1 Course Details

1.1 Calendar Description

The course will contribute to students' achievement of selected elements of graduating competency in the context of pet birds, commercial poultry and non-traditional species (fish, amphibians, reptiles, rabbits, rodents, ferrets, non-domestic carnivores and non-domestic ungulates). The primary emphasis is directed towards enhancing the skills, knowledge and attitudes that will permit the entry-level veterinarian to develop strategies to deal with common and uncommon diagnoses. The graduating competencies can be found on the OVC website (<http://www.ovcnet.uoguelph.ca/homepage/html>).

Pre-Requisites: All Phase 2 courses.

Co-Requisites: All Phase 3 courses.

1.2 Timetable

Please refer to the Courselink site and the Phase 3 timetable for the detailed schedule of lectures, labs and examinations for this course.

1.3 Final Exam

Exam time and location is subject to change. Please see WebAdvisor for the latest information.

2 Instructional Support

2.1 Instructional Support Team

Instructor: Hugues Beaufrere
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Avian, reptiles, amphibian

Instructor: John S. Lumsden
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 Poultry

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 Small mammals, lab animal

Instructor: Sara Gardhouse
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 Amphibian

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 Fish

Course Co-ordinator: Leonardo Susta
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 Poultry

2.2 Support for online material, marks and exams

Please contact Nathalie Lemieux 'nrlemieu@uoguelph.ca'

3 Learning Resources

Pertinent resource material will be available for this course through the Courselink site. Students are responsible for printing any materials they wish to have in hard copy format.

It is expected that students will familiarize themselves with the Sources of Information available for the course to determine what reference material they might like to use once in

practice. Many of these books are available in the University of Guelph Library, often in on-line format. Students should be capable of accessing information on these species in the library, using major indexing publications and computer databases, and via the World Wide Web on the Internet.

The following books (available in print and electronic formats) provide basic information needed by a veterinarian seeing small mammals in clinical practice. They are highly recommended to provide additional depth to and clarification of materials presented in the Small Mammal section of this course.

3.1 Recommended Resources

Quesenberry, K.E. and J.W. Carpenter. 2012. Ferrets, Rabbits, and Rodents. 3rd ed. Saunders, St Louis, MO. (Textbook)

Harkness, J., P.V. Turner, S. Vandewoude, C.L. Wheler. 2010. Harkness and Wagner's Biology and Medicine of Rabbits and Rodents, 5th ed. Wiley-Blackwell; Ames, IA. (Textbook)

Fish Disease. Diagnosis and Treatment (Textbook)

Fish Disease. Diagnosis and Treatment. Edward J. Noga. Moseby ISBN 1-55664-374-8
1996 1st edition.

This available for purchase at a very reasonable price on Amazon.

There is also a 2nd edition that has been moderately modified - and of course is more expensive.

Avian Medicine (Textbook)

Samour J, 2016 Avian Medicine, 3rd Ed, Elsevier.

Current Therapy in Avian Medicine (Textbook)

Speer B, 2016, Current therapy in avian medicine, Elsevier.

Reptile Medicine and Surgery (Textbook)

Divers S, Stahl S. Mader's Reptile medicine and surgery. 2019. Elsevier

Current Therapy in Exotic Pet Practice (Textbook)

Mitchell & Tully, 2016, Current therapy in exotic pet practice, Elsevier.

Avian Disease Manual, 7th Edition (Textbook)

Seventh edition. AAAP (American Association of Avian Pathologists) publisher. Concise and complete information on commonly encountered diseases affecting poultry. It has become an educational staple to North American veterinary and poultry science students, to those interested in avian diseases, and a most useful reference in developing countries.

3.2 Additional Resources

Backyard Poultry Medicine and Surgery: A Guide for Veterinary Practitioners (Textbook)

First edition. Cheryl B. Greenacre and Teresa Y. Morishita (Editors). Wiley-Blackwell.

Manual of Poultry Diseases (Textbook)

First edition. Jeanne Brugère-Picoux, Jean-Pierre Vaillancourt, HL Shivaprasad, Daniel Venne, Moncef Bouzouaia (Editors).

4 Learning Outcomes

Students will gain insights into the roles and responsibilities of veterinarians dealing with fish, amphibians, reptiles, rabbits, rodents and small exotic and avian pets, poultry, and laboratory animals in a variety of contexts in support of the Competency Domains of Phase 3 of the OVC DVM program

(http://ovc.uoguelph.ca/sites/default/files/users/ovcweb/files/PhaseLearningOutcomes_20150717.pdf).

4.1 Course Learning Outcomes

By the end of this course, you should be able to:

1. Evaluate the health of an individual or group of animals of these species and distinguish between normal vs abnormal health, welfare or performance.
 2. Rationally select, explain the utility of, and interpret results of diagnostic testing, and apply the results of such testing within the context of health and disease of these species.
 3. Based on clinical and post mortem findings, diagnose the major diseases and conditions of these species, including developing a prioritized differential list, and diagnostic, treatment, and communication plans.
 4. Formulate appropriate advice on management, treatment, and prevention of major diseases and conditions of these species.
 5. Apply knowledge of appropriate perioperative care and management (including anesthesia, analgesia, and surgical planning) of these species in the context of pet, breeder, research or captive settings to optimize animal welfare.
 6. Diagnose and provide appropriate advice about major zoonoses of these species.
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5 Teaching and Learning Activities

Units of study:

1. Diseases of fish
2. Pet avian medicine and poultry health

3. Health issues relating to pet amphibians and reptiles
4. Veterinary care of pet small mammals and animals in research
5. Introduction to zoo medicine.

Schedule:

Please refer to the Courselink site and the Phase 3 timetable for the detailed schedule of lectures, labs and examinations for this course.

6 Assessments

To pass this course, students must complete all formal assignments and quizzes in each unit. The final grade for the course is comprised of 30% formative evaluation based on midterms and assignments, and 70% summative evaluation based on the final written examination.

Formative assessment during the fall semester consists of a 1-hour December midterm written evaluation covering avian medicine and poultry, reptiles and amphibians (20% of final mark). A written assignment is required for the small mammal/ab animal module (10% of final mark). Times for the written midterm are in the Phase 3 schedule. Each instructor will explain the format of his/her assessment in advance.

The final examination will be of three hours duration, will take place during the final examination week, and is worth 70% of the final mark. It will be cumulative, covering material from all aspects of the course, including assigned independent activities. The distribution of credit on the final examination for various domains of competency will be based on contact time for each section of the course.

The format for evaluation on the midterm and final examinations may include any of the following types of question: short answer; fill in the blank, matching, multiple choice, and short essay. Questions may be based on assessment of clinical scenarios and laboratory data, and they may involve recognition and interpretation of visual images.

7 Course Statements

7.1 Laboratory Information

For detailed information regarding the objectives and activities of each laboratory period please refer to information available on Courselink. Please check as to whether it is necessary to bring a copy of a laboratory guide to the activity.

It is the responsibility of each student to attend any safety orientation that is provided. Safety in the laboratory is a priority at all time. Serious accidents can occur if students do not act responsibly or fail to follow the appropriate procedures. In order to ensure safety of all participants, the safety procedures/guidelines provided by the instructor must be followed. Failure to do so may result in dismissal from the laboratory session. Any accident or injury must be reported to the instructor at the time of occurrence. It is the responsibility of each student to attend any safety orientation that is provided.

Laboratory coats must be worn for all laboratory periods. Gloves and dissection equipment (scalpel handle, thumb forceps, scissors) are required for the labs on Fish Handling and Sampling, Avian Anatomy, and Rabbit Necropsy. Equipment to perform a clinical examination, such as watches, penlights, and stethoscopes, will be helpful for the Avian Handling lab. Students with allergies to birds or small mammals should speak to an instructor regarding any health concerns in advance of the relevant laboratory period.

7.2 Learning Strategies

The information and resource base for this course is its Courselink website; all material on the website is "examinable" unless otherwise specifically stated. Students are expected to complete assigned readings, self-assessment quizzes, and review questions. Some, but not all, portions of the course content will be presented in lecture format, demonstrated or practiced in laboratory sessions, or discussed in case/tutorial sessions. It is the students' responsibility to read and examine material pertaining to these sessions and to complete any assigned activities in advance of the discussion periods to help them formulate interpretations and opinions. Students must be prepared to present and discuss cases during these periods. The relevant instructor will outline the format of the case discussions for each unit of study.

7.3 Additional Information

Students are encouraged to review the document on academic administrative information, particularly sections dealing with academic consideration, absences for academic reasons, and academic misconduct

(http://ovc.uoguelph.ca/sites/default/files/users/ovcweb/files/Academic_Administrative_Information-Phases1-3_2010_11.pdf).

8 University Statements

8.1 Email Communication

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

8.2 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 instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. The grounds for Academic Consideration are detailed in the Undergraduate and Graduate Calendars.

Undergraduate Calendar - Academic Consideration and Appeals

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Graduate Calendar - Grounds for Academic Consideration

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

Associate Diploma Calendar - Academic Consideration, Appeals and Petitions

<https://www.uoguelph.ca/registrar/calendars/diploma/current/index.shtml>

8.3 Drop Date

Students will have until the last day of classes to drop courses without academic penalty. The deadline to drop two-semester courses will be the last day of classes in the second semester. This applies to all students (undergraduate, graduate and diploma) except for Doctor of Veterinary Medicine and Associate Diploma in Veterinary Technology (conventional and alternative delivery) students. The regulations and procedures for course registration are available in their respective Academic Calendars.

Undergraduate Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>

Graduate Calendar - Registration Changes

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/genreg-reg-regchg.shtml>

Associate Diploma Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/diploma/current/c08/c08-drop.shtml>

8.4 Copies of Out-of-class Assignments

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

8.5 Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required; however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance and not later than the 40th Class Day.

For Guelph students, information can be found on the SAS website
<https://www.uoguelph.ca/sas>

For Ridgetown students, information can be found on the Ridgetown SAS website
<https://www.ridgetownc.com/services/accessibilityservices.cfm>

8.6 Academic Integrity

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 encourages academic integrity. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

Undergraduate Calendar - Academic Misconduct
<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Graduate Calendar - Academic Misconduct
<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

8.7 Recording of Materials

Presentations that are made in relation to course work - including lectures - cannot be recorded or copied without the permission of the presenter, whether the instructor, a student, or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

8.8 Resources

The Academic Calendars are the source of information about the University of Guelph's procedures, policies, and regulations that apply to undergraduate, graduate, and diploma programs.

Academic Calendars

<https://www.uoguelph.ca/academics/calendars>
