1 Course Details

1.1 Calendar Description
This course stresses rational drug therapy through an understanding of drug factors, host factors and disease factors, with emphasis on clinically relevant properties of selected major drug classes and used for therapy (prevention and treatment) in small animals, food animals, and horses.

**Pre-Requisite(s):** All Phase 2 courses.
**Co-Requisite(s):** All Phase 3 courses.
**Restriction(s):** Registration in the D.V.M. Program

1.2 Course Description
Drug-related factors including indications, mechanisms of action, major adverse effects and relevant pharmacokinetics will be emphasised in discussions of clinical uses of anti-inflammatory and anti-infective drugs and drugs acting on specific organ systems. Attention will also be given to other pertinent areas of clinical pharmacology. Prerequisites: all DVM Phase 2 courses; Co-requisites: all DVM Phase 3 courses. This course will be delivered through the Department of Biomedical Sciences.

1.3 Timetable
Timetable is subject to change. Please see WebAdvisor for the latest information.

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

2 Instructional Support
For questions regarding academic consideration, continuation of study, academic misconduct, safety, confidentiality, and experiential learning involving use of animals, please refer to the Phase information on the OVC website.

2.1 Instructor(s)
Andrew Peregrine
Email: aperegri@uoguelph.ca
2.2 Instructional Support Team

Course Co-ordinator: Ron Johnson
Email: rjohns03@uoguelph.ca
Telephone: +1-519-824-4120 x54041
Office: Room 1683

2.3 Instructor

Dr. Steve Waisglass

Dermatology Referral Service, Vet Emergency Clinic and Referral Centre, email derm@vectoronto.com

3 Learning Resources

Notes will be available on D2L.

4 Learning Outcomes

The goals of this course are to ensure an understanding of current knowledge and use strategies of the important members of major therapeutic drug classes. Further, an understanding of host and disease factors will be integrated with drug factors reinforcing the principles of rational use of therapeutic agents in clinical situations. The drugs addressed will be those most important in the prevention and treatment of disease in small animals, food animals, and horses, and will include discussion of mechanisms of action, adverse effects, relevant pharmacokinetics, clinical indications and regulatory considerations.

Agents used in the management of inflammation and infections, and drugs acting more specifically on the respiratory, cardiovascular, digestive, endocrine, musculoskeletal and genitourinary systems will be described, as will agents used to treat cancer and diseases of the eyes and skin. Where possible, subject matter presented in this course will coincide (timely manner) with diseases of specific organs systems discussed in the three major species courses of Phase 3; i.e. Medicine and Surgery of the Dog and Cat (VETM*4470), Equine Medicine and Surgery (VETM*4450), and Food Animal Medicine and Surgery (VETM*4460).

4.1 Course Learning Outcomes

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

1. Define and correctly use the vocabulary common to veterinary clinical pharmacology.
2. Understand the principles of rational drug therapy including host, drug and disease factors.
3. Name the important and common drugs used to prevent and treat important disorders of
small animals, horses, and food animals.
4. Explain the mechanism of action, therapeutic benefits, potential toxicity, indications, major contraindications and regulatory concerns of selected members of major drug groups in small animals, horses, and food animals.
5. Understand extra-label drug use and its implications in small animals, horses and food animals.
6. Know which drugs are prohibited for use in food animals.
7. Understand the components of the dosage regimen and how they are affected by host, drug and disease factors.
8. Understand prudent usage of antimicrobials.

5 Teaching and Learning Activities

6 Assessments

6.1 Assessment Details

Midterm 1 (20%)
Formative evaluation

Midterm 2 (20%)
Formative evaluation
Covers material since the first midterm

Final (60%)
Summative evaluation
Covers all course content

7 University Statements

7.1 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.

7.2 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 regulations and procedures for Academic Consideration are detailed in the Undergraduate Calendar.

7.3 Drop Date
Courses that are one semester long must be dropped by the end of the fortieth class day; two-semester courses must be dropped by the last day of the add period in the second semester. The regulations and procedures for Dropping Courses are available in the Undergraduate Calendar.

7.4 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.

7.5 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.

More information: www.uoguelph.ca/sas

7.6 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.

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.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar.

7.7 Recording of Materials

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

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