



VETM*3460 Theriogenology

Fall 2020

Section(s): C01

Department of Population Medicine

Credit Weight: 0.75

Version 1.00 - September 07, 2020

1 Course Details

1.1 Calendar Description

A lecture and laboratory course covering the normal and abnormal reproductive systems of domestic animals. The course will include mammalian reproductive physiology and histology, diagnosis and treatment of reproductive disorders, including infertility, and management of breeding programs of the common domestic species. An introduction to the new reproductive technologies used in theriogenology will also be provided.

Pre-Requisites: All Phase 1 courses.

Co-Requisites: All Phase 2 courses.

1.2 Timetable

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

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

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3 Learning Resources

3.1 Required Resources

VETM 3460 Courselink Website (Website)

All course notes and powerpoint slides/presentations will be available on the Courselink VETM 3460 Website.

Dr. Robert Foster's reproductive pathology website: (Website)

<http://www.uoguelph.ca/~rfoster/repro/repro.htm>

3.2 Recommended Resources

**** Pathways to Pregnancy and Parturition, 2nd Ed., P.L. Senger, Current Conceptions Inc, WA. (Textbook)**

Manual of Equine Reproduction; s. Brinsko and D. Varner; 2010, 3rd Edition, Mosby Books (Textbook)

Canine and Feline Theriogenology; S.D. Johnson, M.V. Root Kustritz and P.N.S. Olson (Textbook)

4 Learning Outcomes

The objective of this course is for students to acquire an understanding of the reproductive biology and clinical theriogenology of the common domestic species, and develop an appreciation for the importance of reproduction in food animal, equine, mixed and small animal veterinary practice. These objectives will be taught through various approaches including lectures and laboratories (histology, gross pathology, rectal palpation, vaginal cytology and semen analysis labs).

4.1 Course Learning Outcomes

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

1. Compare and contrast the reproductive cycles, including the endocrinology, gross and histological anatomical features, of the various domestic species, and explain how they relate to reproductive management.
 2. Summarize, diagnose and develop a treatment plan for the important clinical conditions of the main domestic species.
 3. Perform rectal palpation in cows, identifying the cervix, uterus and ovaries, including corpora lutea and follicles, and interpret the importance of ovarian structures present.
 4. Solve case scenarios using an evidence-based approach, utilizing the knowledge of anatomy, cycles, reproductive management and diseases learned throughout the course.
 5. Illustrate the anatomical and histological adaptations to male and female reproductive tissues that permit function, but also predispose to disease.
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5 Teaching and Learning Activities

Instruction in this course will occur through a variety of approaches, including lectures and hands-on laboratories.

Lectures are organized in a Module approach, with laboratories integrated with relevant material as follows:

1. Female Reproduction
 - 1.1 Reproductive Anatomy, Histology and Physiology
 - 1.2 Reproductive Management
 - 1.3 Clinical Reproduction - Non Pregnant Female
 - 1.4 Clinical Reproduction - Pregnancy, Parturition and Postpartum

2.0 Small Animal Theriogenology

3.0 Male Theriogenology

4.0 Cases and Special Topics by Species

Laboratories

Bovine Rectal Palpation Laboratories – The bovine rectal palpation laboratories are elective. Students planning on pursuing a career in mixed animal, bovine or equine practice are strongly encouraged to sign up for the palpation lab. Students who intend to pursue small animal veterinary practice exclusively are not required to take the palpation lab. Students signing up for the labs are **expected to attend all 6 lab sessions**. Students are encouraged to complete a "cow palpation record" following each lab to track their own progress. **At the final laboratory, (lab 6) participating students will be evaluated by instructors for achievement of learning outcome # 3:**

Perform rectal palpation in cows, identifying the cervix, uterus and ovaries, including corpora lutea and follicles, and interpret the importance of ovarian structures present.

This evaluation will consist of Satisfactory / Needs Improvement and will not count toward the student's grade for VETM 3460.

Prior to the introductory lab students are expected to have watched the video Rectal Palpation of the Cow - link provided on the Courselink site. The Introductory lab will include information on how the lab sessions will be conducted, rules of the lab, and an opportunity to ask questions. The first cow palpation lab will introduce bovine rectal palpation using our model "Betsy" and tracts. An introduction to mare palpation will be included, limited to practice on "Maple Stirrup" the equine palpation model. Two portable ultrasound units are available for student use during labs and may be signed out during additional practice sessions.

The equine palpation laboratory will now occur in Phase 3 as part of Equine Health Management.

If the COVID pandemic situation changes and in-person laboratories are no longer possible, the Bovine Palpation Labs will be rescheduled in the winter semester to ensure that students continuing into large animal or mixed practice have achieved basic palpation skills.

6 Assessments

Assessment of students will be based on four midterm examinations and a final examination. **All examinations will be cumulative.** Examination questions may be in the form of multiple choice, short answer and true / false questions, and visual slides may also be used. An additional laboratory assessment is also included.

*****IMPORTANT*** Some laboratories include compulsory written assignments that together carry a value of 6% of the final grade.** Completion of the **laboratory assignments** are required in order for the 6% laboratory grade to be credited. There is no specific mark per se given for each laboratory assignment. The 6% grade is an assignment completion mark. 3% is awarded for successful completion of each individual lab assignment. Deadlines for submission of assignments will be communicated at each laboratory. Failure to submit the lab assignment will result in a 0/3 grade for that laboratory component of the course. Failure to successfully complete both labs will result in 0/6 for the lab component. Students who must miss any laboratory assignment are required to obtain Academic Consideration as for all examinations.

All assignments must be completed to the satisfaction of the appropriate faculty member and the course coordinator. Unsatisfactory assignments must be resubmitted, with ongoing consultation, until they are of appropriate quality. Laboratory content will be included in the midterm and final examinations. **Specifically, the labs that include assignments are (1) vaginal cytology lab and (2) semen analysis lab. NOTE that the vaginal cytology laboratory occurs in the first week after returning from Christmas vacation. It is suggested that students make note of this if planning an extended vacation. There will NOT be an opportunity to make up either of these labs outside of the two times offered in the schedule.**

For Academic Consideration, please contact the Associate Dean, Students and Academic (ovc.dvmacademics@uoguelph.ca). If a midterm examination is missed and academic consideration is granted, alternative arrangements will be made by the course coordinator on an individual case basis. If academic consideration is not granted, a mark of zero will be allocated for the missed examination.

Midterm Exams are **cumulative** and will also include material covered in laboratory sessions.

The final examination is cumulative and covers all lecture, laboratory and notes material in the course.

6.1 Marking Schemes & Distributions

Quiz #1: Wednesday October 21, 2020	1:30pm Value: 10%
Quiz #2: Monday November 23, 2020	8:30am Value: 10%
Quiz #3: Thursday January 14, 2021	8:00am Value: 10%
Quiz #4: Friday March 12, 2021	1:30pm Value: 10%
Laboratory Assignments (Vaginal cytology and Semen labs: 3% each)	Value: 6%
Final Exam: Please refer to WebAdvisor for the date and time.	Value: 54%

7 Course Statements

7.1 Required Safety Training

It is the responsibility of each student to fully review the COVID-19 safety plan on CourseLink for each in-person course activity in this course, and to adhere to all safety protocols that have been prescribed. As well, students **must** follow the steps below before coming to campus:

1. Complete the COVID-19 Infection Prevention and Control Awareness Training course via CourseLink.
2. **For every day that you have an in-person course activity**, before you come to campus, complete U of G's COVID-19 Screening Form. **Do not come to campus if the form indicates you should stay home.**

7.2 Statement on Session Recordings:

By enrolling in a course, unless explicitly stated and brought forward to their instructor, it is assumed that students agree to the possibility of being recorded during lecture, seminar or other "live" course activities, whether delivery is in-class or online/remote.

If a student prefers not to be distinguishable during a recording, they may:

1. turn off their camera
2. mute their microphone
3. edit their name (e.g., initials only) upon entry to each session
4. use the chat function to pose questions

Students who express to their instructor that they, or a reference to their name or person, do not wish to be recorded may discuss possible alternatives or accommodations with their instructor.

7.3 Netiquette Statement Regarding Online Behaviour:

Inappropriate online behaviour will not be tolerated. Examples of inappropriate online behaviour include:

- Posting inflammatory messages about your instructor or fellow students
- Using obscene or offensive language online
- Copying or presenting someone else's work as your own
- Adapting information from the Internet without using proper citations or references
- Buying or selling term papers or assignments
- Posting or selling course materials to course notes websites
- Having someone else complete your quiz or completing a quiz for/with another student
- Stating false claims about lost quiz answers or other assignment submissions
- Threatening or harassing a student or instructor online
- Discriminating against fellow students, instructors and/or TAs
- Using the course website to promote profit-driven products or services
- Attempting to compromise the security or functionality of the learning management system
- Sharing your user name and password
- Recording lectures without the permission of the instructor

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>

8.9 Disclaimer

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings and academic schedules. Any such changes will be announced via CourseLink and/or class email. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

8.10 Illness

The University will not normally require verification of illness (doctor's notes) for fall 2020 or winter 2021 semester courses. However, requests for Academic Consideration may still require medical documentation as appropriate.
