I. Course information
Course Title: VEM 5271, Small Animal Reproduction
Phase: III
Semester: Spring
Course credit: 1
Course grading: Letter

II. General information
Course director: Dr. Audrey A. Kelleman, DVM, DACT
Office phone number: (352) 294-4294
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III. Educational Goals and Objectives:
- How to determine these critical events of the reproductive cycle of the bitch
- What are the critical events in the reproductive cycle of the bitch: start proestrus, LH peak, ovulation, diestrus
- Determine when is the bitch most fertile.
- How to determine pregnancy status using palpation, ultrasonography, radiographs, and relaxin testing.
- Be able to determine what medications are safe for administration during pregnancy and lactation.
- Know methods of artificial insemination.
- Explain basic canine pregnancy and parturition physiology
- Understand methods of semen preservation with the advantages or disadvantages.
- Know the parameters of a good quality semen
- Know the composition of the ejaculate and the analysis procedure
- Know how to obtain semen from a male dog
- Know how to identify and treat the postpartum diseases of metritis, agalactia, mastitis, and sub-involution of placental sites.
- Know differentials for fading neonate syndrome
- Be able to diagnostically address and manage resumption of estrus in a previously spayed female cat or dog.
- Know the following diseases, how to diagnose them, their pathogeny and treatment
- Know how to resuscitate a neonate
- Know the normal physiologic parameters of the neonates
- Be able to take care of neonates
- Be able to decide when a C-section is needed
- Be able to manage dystocia, if appropriate, medically.
- Be able to monitor parturition and recognize the signs of dystocia
- Understand physiology of parturition in the dog
- To be able to recognize, diagnose using the available tools and to treat male prostatic diseases.
- To be able to diagnose canine Brucellosis.
- Feline reproduction - listed objectives as for dogs.
- Know methods of estrus suppression and medical (non-surgical) contraception in dogs and cats
- To be able to recognize mammary tumors
- Recognize using the available tools and treat adequately the main causes of infertility in male and female dogs.
- Know the health consequences of gonadectomy.
- To be able to medically terminate canine pregnancy.
- Know the medical management of pyometra and determine if a patient is an appropriate candidate for such management.

Instructional Units
Lecture Ovulation Timing and Breeding in the bitch Kelleman, Audrey A
Lecture Canine Pregnancy and Diagnosis Kelleman, Audrey A
Lecture Bitch Breeding Soundness Evaluation and Infertility Kelleman, Audrey A
Lecture Stud Dog Breeding Soundness, Semen Collection, Evaluation, & Packaging Kelleman, Audrey A
Lecture Whelping (Parturition), Dystocia and C section Kelleman, Audrey A
V. Grading/Testing:
We expect that you will have reviewed course notes from previous classes that are pertinent to small animal reproduction. **Class attendance is mandatory**, unless previously approved by the course coordinator.

Final examination
The final examination will be given in the Large Animal Auditorium. It will consist of multiple choice questions. It will constitute 90% of your grade. Make up exams will be given only if prearranged and for extenuating factors such as illness, etc.

Student presentation
10% of your grade will be based upon a short presentation that you make, as part of a group project, in the course during one of the lecture slots of the second week. **Make up exams will be given only if prearranged and for extenuating factors such as illness, etc.**
Material on the test will be taken from the assigned required textbook reading materials, lectures, and classroom discussion and demonstrations. In addition, there are five (5) required reading journal articles: two feline articles authored by Griffin, two on contraception authored by Levy and Kutzler, and finally one on ovarian remnant by Bailey. The assigned textbook chapters are quite short (often only 2-3 pages) and clinically relevant.

Accommodations for Students with Disabilities - Students requesting accommodations must first register with the Dean of Students Office, Disability Resource Center at 352-392-8565. Students may also apply on-line for accommodations. For more information, see the Disability Resource Center website at: http://www.dso.ufl.edu/drc/

The Disability Resource Center will provide a letter to the student who must then meet with the course instructor to discuss the required accommodations. Once notification is complete, the instructor can work with the Disability Resource Center to provide the requested accommodations. To ensure that necessary accommodations are provided in a timely manner, it would expedite this process if any student who might need an accommodation would notify the course coordinator during registration.

VI. Administrative Policies: see Student Handbook @


Honesty Policy - All students registered at the University of Florida have agreed to comply with the following statement: “I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University.” In addition, on all work submitted for credit the following pledge is either required or implied: “On my honor I have neither given nor received unauthorized aid in doing this assignment.” To review the student honor code please visit: http://www.dso.ufl.edu/judicial/honorcodes/honorcode.php

Plagiarism includes any attempt to take credit for another person’s work. This includes quoting directly from a paper, book, or website, without crediting the source. Sources should be noted, a link to the website added, or quotation marks placed around the material and attributed, even during online discussions. However, the instructor expects more than simply cutting and pasting in this graduate-level course. Students are expected to review, evaluate and comment on material they research, rather than simply copying relevant material. Work will be graded accordingly.

Student Evaluation of Instruction - Evaluations are performed electronically at the end of the course. To evaluate the instructor, visit the UF Evaluation site at: https://evaluations.ufl.edu/evals/

VII. Required textbook and journal articles for assigned readings:

Clinical Canine and Feline Reproduction, Evidence-Based Answers
Author: Margaret V. Root Kustritz
Publisher: Wiley-Blackwell, 2010

If an adequate reference was not available in the above book, journal articles/reviews will be assigned. As mentioned above, the following articles are required: two feline articles authored by Griffin, two on contraception authored by Levy and Kutzler, and finally one on ovarian remnant by Bailey. These are available on Sakai. To access the Sakai site go to https://lss.at.ufl.edu/, click on the “Continue” button under “Sakai System Entry” on the left side and log in with your Gatorlink username and password.

Suggested Readings: Various other journal articles for your use are also available on the Sakai course site. These are for further reference, if desired, but are not required.