Jordan University of Science and Technology
Faculty of Veterinary Medicine
Department of Veterinary clinical Sciences
Spring Semester 2019-2020
Course Specifications

Title & Instructor	
Course Title	Theriogenology Clinics General, I and II
Course Number	VM 592
Prerequisites	VM 591
Course Website	JUST E-Learning and Google drive link
Instructors	Dr Abdelsalam Talafha
Office Location	G1 L2
Office Phone	22025 Dr Talafha
Office Hours	Dr Talafha: Sun & Tues & Thurs. 8:30 – 10:30 VHC
E-mail	talafha@just.edu.jo,
Teaching Assistant	

Course Aims and Objectives
The Theriogenology rotation should allow the student to fine tune their client communication skills as well as their history taking, physical examination, reproductive examination and test interpretation skills. Emphasis will be placed on appreciating the relationship between the reproductive problem and client goals (for example, production animal, personal pet, etc) and be able to recommend/prescribe the best optional treatment/management to meet animal welfare while satisfying client expectations.
Objectives
1. Perform an appropriate physical restraint for a reproductive examination
2. Obtain and record a general and reproductive history
3. Write a prescription
4. Calculate drug therapy
5. Perform and interpret basic procedures including vaginal cytology smears, vaginoscopy, palpation and ultrasonography of reproductive organs of male and female domestic species
6. Recognize and devise a comprehensive diagnostic and treatment plan for conditions leading to infertility
7. Interpret imaging of normal and abnormal reproductive organs and pregnancy
8. Review the previous information in the medical record and summarize the pertinent finding.
9. Protect yourself and any support staff when handling an animal with a possible zoonotic disease
10. Perform basic client communication including written and verbal discharge

instructions
11. Obtain a blood sample and evaluate test results

Course Description

Students on this rotation are assigned to the Veterinary Health Center Theriogenology Service. Students will be engaged in activities to provide clinical experience with diagnosis and treatment of reproductive disorders of dogs, cats, cattle, sheep, goats and horses.

Text Book & References

1. Senger, P.L. Pathways to Pregnancy and Parturition, 3nd ed. Current Conceptions
2. Youngquist & Threlfall. Current Therapy in Large Animal Theriogenology , 2nd ed. Saunders
3. Root-Kustritz. Small Animal Theriogenology (from series The Practical Veterinarian), 2003
4. D.G. Pugh and A.N. Baird, Theriogenology of Sheep and Goats In: Sheep and goat Medicine, 2nd edition, 2012. Pp 150-230
5. Steven P. Brinsko et al. Manual of equine Reproduction. 3rd edition, 2011.
6. Dr Abdelsalam Talafha class notes for small animal, food animal and equine theriogenology courses

Intended Student Learning Outcomes(ISLOs)

Upon successful completion of this course, students should be able to:

1. Demonstrate problem recognition and proper management of domestic animals with reproductive disorders
2. Explain the etiology, diagnosis and treatment of common disorders of the ovary, uterus and fetus for all domestic species
3. Explain the appropriate use of specific hormones to treat reproductive disorders or facilitate breeding management of domestic animals
4. Properly identify and design appropriate treatment of the animal

Teaching & Learning Methods

Equipment:

Practical and professional attire is required: clean scrubs with a name tag; whenever applicable, students will wear scrubs or coverall gear. Rubber boots or shoes suited for liquid disinfection is mandatory. Students should be prepared with basic supplies for examination, including stethoscope, watch/timer, thermometer, bandage scissors, hemostat, leash, pen light, blue pen, sharpie pen and a small note pad or notebook.

Attendance / Lateness Policy:

Absences must be pre-approved by the faculty mentor. Requests should be made at least 1 week prior to the start of the absence. Unexcused absences will result in an incomplete grade and/or dismissing from class if absences exceed JUST regulations limit. If ill, the student must provide an official medical absentee form to the faculty mentor.

Patient Care:

Students are responsible for performing and documenting the medical history and physical examination findings, and relaying that information to the faculty member and the medical record. Students are responsible for assisting in case management under the supervision of the attending veterinarian or faculty member. This includes animal restraint for procedures, performing and assisting with technical procedures and diagnostic sample collection, requesting and organizing diagnostic procedures and medical treatments.

Medical Record Keeping:

Students are responsible for performing and documenting the medical history and physical examination findings, and relaying that information to other team members and the medical record. Students are responsible for medical record documentation.

Self-Assessment Questions:

The following questions should be answered without using any other resources to gauge the student's level of basic Theriogenology knowledge. During the rotation, it will be the responsibility of the student to make sure that the answers to all the questions become part of the knowledge gained in this rotation. These topics are part of the material to be included in the rotation exams.

1. List major reproductive hormones, mention where they are produced, list their target organs, and concisely describe the biological functions of each hormone.
2. List the anatomy of female and male reproductive organs, their hormonal regulation and function.
3. Define the stages and phases of each species' reproductive cycles
4. Describe the species-specific variations occurring during estrus, pregnancy and parturition as it relates to hormonal changes and anatomical characteristics accompanying each phase of the reproductive cycles.
5. List common disorders of reproductive cycles, pregnancy and puerperium.
6. Choose diagnostic tools for assessing reproductive function and fertility potential: breeding soundness evaluations, reproductive ultrasonography, hormonal assays and interpretation, etc
7. Recognize common reproductive problems of male and female within each species.
8. Design a therapeutic (pharmacological) plan to control or manipulate the reproductive cycle of domestic animals (induction of cyclicity, lactation, ovulation, maintenance of pregnancy, elective termination of pregnancy, etc).
9. Select appropriate therapy to correct various reproductive disorders or conditions by further selecting a medical or surgical approach.

Self-directed learning

1. Presenting and discussing your topic in a concise manner to students in the rotation during rounds.
2. Each student will be responsible for presenting a topic of their choice (from the list provided by course instructors) involving a species of interest.
3. These topics and presentations are to be clinically informative and should not take more than 10 minutes to be presented. Each topic needs to be summarized in 1-2 pages, size 12 times new roman with single line spacing. Upon completion of your presentation you need to send it to Dr Talafha **within 2 days after you present it to students in order to be posted on e-learning or google drive for all students. Delay in sending your presentation will result in lowering your grade by 1 point for each day you are late**. Presenting the information using PowerPoint is strongly

encouraged, but you will have the choice to present orally or pass concise handouts

4. 4-5 students will present their topic to students in the rotation beginning on the **second week** of the semester

Assessment		
Assessment Type	**Expected Due Date**	**Weight**
Midterm Exam	As per JUST calendar	40%
General rotation evaluation	End of semester	10%
Case /topic presentation	During semester	10 %
Final exam	As per JUST calendar	40 %

Additional Notes	
Exams	• All exams are closed book and notes. • **Midterm and final exams:** covers the Self-Assessment Questions, cases presented to the veterinary health center and self-directed learning (students presentations). • Dr. Talafha's class notes are good sources for midterm and final exams • ***it is the student responsibility to know what is going on in the veterinary health center regarding the Theriogenology cases.***