



Jordan University of Science and Technology
Faculty of Veterinary Medicine
Doctor Of Veterinary Medicine (Dvm) Department

VM590 Theriogenology Clinic 1
Summer Semester 2023-2024

Course Catalog
1 Credit Hours. Students on this rotation are assigned to the Veterinary Teaching Hospital 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.
Teaching Method: On Campus

Text Book	
Title	Bovine Reproduction
Author(s)	Richard M. Hopper
Edition	2nd Edition
Short Name	Ref # 1
Other Information	https://vetbooks.ir/bovine-reproduction-2nd-edition/ password to access book: vetbooks.ir

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref # 2	Veterinary Reproduction & Obstetrics	David Noakes, Timothy Parkinson, Gary England	10th Edition	https://vetbooks.ir
Ref # 3	Pathways to Pregnancy and Parturition	Senger, P.L.	3rd Edition	https://vetbooks.ir
Ref # 4	Current Therapy in Large Animal Theriogenology	Youngquist & Threlfall	2nd Edition	https://vetbooks.ir
Ref # 5	Small Animal Theriogenology (from series The Practical Veterinarian),	Root-Kustritz	1st Edition	
Ref # 6	Sheep and goat Medicine	D.G. Pugh and A.N. Baird	2nd Edition	Theriogenology of Sheep and Goats

Ref # 7	Manual of equine Reproduction	Steven P. Brinsko et al	3rd Edition	
Ref # 8	small animal, food animal and equine Theriogenology courses	Drs Talafha, Ababneh, and Eljarrah	2nd Edition	JUST e-learning
Ref # 9	Theriogenology cases presented to or discussed in the veterinary Teaching Hospital during the semester	Drs Talafha, Ababneh, and Eljarrah	1st Edition	Drs Talafha, Ababneh, and Eljarrah class notes

Instructor	
Name	Prof. Mohammed Ababneh
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Office Hours	
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Instructor	
Name	Prof. Abdelsalam Talafha
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Office Hours	
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Class Schedule & Room

Section 1:

Lecture Time: Sun, Mon : 08:30 - 10:30

Room: المستشفى البيطري التعليمي

Section 2:

Lecture Time: Sun : 10:30 - 14:30

Room: المستشفى البيطري التعليمي

Section 3:

Lecture Time: Mon : 10:30 - 14:30

Room: المستشفى البيطري التعليمي

Section 4:

Lecture Time: Tue, Wed : 08:30 - 10:30

Room: المستشفى البيطري التعليمي

Section 5:

Lecture Time: Tue : 10:30 - 14:30

Room: المستشفى البيطري التعليمي

Section 6:

Lecture Time: Wed : 10:30 - 14:30

Room: المستشفى البيطري التعليمي

Section 8:

Lecture Time: Mon : 10:30 - 14:30

Room: المستشفى البيطري التعليمي

Section 9:

Lecture Time: Tue : 10:30 - 14:30

Room: المستشفى البيطري التعليمي

Prerequisites

Line Number	Course Name	Prerequisite Type
664961	VM496 Diagnostic Techniques In Animal Reproduction 2	Prerequisite / Study

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Chapter 22: Anatomy of the Reproductive System of the Cow, page 253 - 257	Bovine Reproduction From Ref # 1
Week 2	Chapter 24: Neuroendocrine Control of Estrus and Ovulation, page 269 - 282	Bovine Reproduction From Ref # 1

Week 3	Chapter 37: Pharmacological Intervention of Estrous Cycles, page 458 - 468	Bovine Reproduction From Ref # 1
Week 4	Chapter 38: Examination for Pregnancy: Rectal Palpation, page 471 - 477	Bovine Reproduction From Ref # 1
Week 4	Chapter 40: Ultrasound Evaluation of the Female Reproductive Tract, page 486 ? 506	Bovine Reproduction From Ref # 1
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Theriogenology cases presented to or discussed in the veterinary Teaching Hospital during the semester	From Ref # 8, From Ref # 9
Week 5	Chapter 33: Cystic Ovarian Follicles, page 399 ? 405	From Ref # 1
Week 5	Chapter 34: Postpartum Anestrus and Its Management in Dairy Cattle, page 408 - 424	From Ref # 1
Week 6	Chapter 47: Management of Vaginal, Cervico-Vaginal, and Uterine Prolapse, page 563 ? 576	From Ref # 1
Week 6	Chapter 50: Dystocia and Accidents of Gestation, page 597 - 606	From Ref # 1
Week 7	Chapter 53: Retained Fetal Membranes, page 629 - 637	From Ref # 1
Week 7	Chapter 54: Postpartum Uterine Infection, page 639 - 650	From Ref # 1
Week 8	Theriogenology cases presented to or discussed in the veterinary health center or the veterinary teaching hospital during the semester	From Ref # 9
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Self-Assessment Questions	From Ref # 1, From Ref # 2, From Ref # 3, From Ref # 4, From Ref # 5, From Ref # 6, From Ref # 7, From Ref # 8, From Ref # 9

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Demonstrate problem recognition and proper management of domestic animals with reproductive disorders	25%	
Explain the etiology, diagnosis and treatment of common disorders of the ovary, uterus and fetus for all domestic species	25%	
Explain the appropriate use of specific hormones to treat reproductive disorders or facilitate breeding management of domestic animals	25%	
Properly identify and design appropriate treatment of the animal	25%	

Relationship to Program Student Outcomes (Out of 100%)									
1	2	3	4	5	6	7	8	9	10

Evaluation	
Assessment Tool	Weight
MIDTERM	50%
FINAL	50%

Policy	
Course Aims	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.
Course Objectives	<ol style="list-style-type: none"> 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

Date Printed: 2024-08-21