



**Jordan University of Science and Technology**  
**Faculty of Veterinary Medicine**  
**Veterinary Medicine And Surgery Department**

VM491 Food Animal Theriogenology

First Semester 2021-2022

**Course Catalog**

2 Credit Hours. This course covers the physiology and pathology of female reproductive systems in cattle and small ruminants. This course is divided into two major parts: the first part deals with gynecological aspects of the non-pregnant female, fertility monitoring and control programs; in the second part, normal and abnormal pregnancy, parturition and postpartum period will be covered. This class will take advantage of all previous courses that covered related materials to animal reproduction. This includes anatomy, physiology, pharmacology and pathology.

**Text Book**

<b>Title</b>	Current Therapy In Large Animal Theriogenology
<b>Author(s)</b>	R. S. Youngquist and W. R. Threlfall
<b>Edition</b>	2nd Edition
<b>Short Name</b>	Current Therapy In Large Animal Theriogenology
<b>Other Information</b>	www.elsevier.com

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Arthur's Veterinary Reproduction and Obstetrics	Arthur's Veterinary Reproduction and Obstetrics	David E. Noakes, Timothy J. Parkinson and Gary C.W. England	8th Edition	
Pathways to Pregnancy and Parturition	Pathways to Pregnancy and Parturition	P.L. Senger	3rd Edition	
Sheep and goat medicine	Sheep and goat medicine	D.G. Pugh	2nd Edition	

**Instructor**

Name	<b>Prof. Abdelsalam Talafha</b>
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Office Location	G1 L2
Office Hours	
Email	talafha@just.edu.jo

<b>Class Schedule &amp; Room</b>
<p>Section 1: Lecture Time: Sun : 13:30 - 14:30 Room: قاعة ابن رشد</p> <p>Section 2: Lecture Time: Tue : 13:30 - 14:30 Room: قاعة ابن رشد</p>

<b>Tentative List of Topics Covered</b>		
<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Week 1	Cow Estrous Cycle and Estrus Synchronization	From <b>Current Therapy In Large Animal Theriogenology</b> , From <b>Pathways to Pregnancy and Parturition</b>
Week 2	Anestrus, Freemartinism, Bovine Venereal Diseases	From <b>Current Therapy In Large Animal Theriogenology</b> , From <b>Arthur's Veterinary Reproduction and Obstetrics</b>
Week 3	Cystic Ovarian Disease and Repeat breeder in cows	From <b>Current Therapy In Large Animal Theriogenology</b> , From <b>Arthur's Veterinary Reproduction and Obstetrics</b>
Week 4	Physiology of pregnancy and Induction of parturition in cows	From <b>Current Therapy In Large Animal Theriogenology</b> , From <b>Arthur's Veterinary Reproduction and Obstetrics</b> , From <b>Pathways to Pregnancy and Parturition</b>
Week 5	Parturition and Post Partum Period in cows	From <b>Current Therapy In Large Animal Theriogenology</b> , From <b>Arthur's Veterinary Reproduction and Obstetrics</b> , From <b>Pathways to Pregnancy and Parturition</b>
Week 6	Problems during pregnancy	From <b>Current Therapy In Large Animal Theriogenology</b> , From <b>Arthur's Veterinary Reproduction and Obstetrics</b>
Week 7	Bovine Abortion	From <b>Current Therapy In Large Animal Theriogenology</b> , From <b>Arthur's Veterinary Reproduction and Obstetrics</b>

Week 8	Conditions That Occur In The Postpartum Period	From <b>Current Therapy In Large Animal Theriogenology</b> , From <b>Arthur's Veterinary Reproduction and Obstetrics</b>
Week 9	Postpartum uterine infection	From <b>Current Therapy In Large Animal Theriogenology</b> , From <b>Arthur's Veterinary Reproduction and Obstetrics</b>
Week 10	Awassi sheep and goat reproduction	From <b>Sheep and goat medicine</b>
Week 11	Reproductive dysfunction in sheep and goat	From <b>Sheep and goat medicine</b>
Week 12	Abortion in sheep and goat	From <b>Sheep and goat medicine</b>
Week 13	Reproduction in Old World camels	From <b>Current Therapy In Large Animal Theriogenology</b>

<b>Mapping of Course Outcomes to Program Student Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
describe biological mechanisms that underlie animal health and diseases at the cell, organism and population levels	16%	
apply the knowledge of normal versus disease status of animal in terms of structure, function, homeostasis and pathophysiology	16%	
use problem solving skills in examining and using appropriate clinical and laboratory testing to reach a diagnosis.	16%	
develop and perform a comprehensive treatment plan	16%	
apply the learned practical knowledge of reproductive anatomy and physiology in both companion animal and domestic animal species and the ability to utilize diagnostic techniques used in theriogenology	16%	
identify ways to prevent disease, identify organisms that require biosecurity measures, identify zoonotic disease and food safety issues and to promote awareness of the public and animal health	20%	

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

Date Printed: 2021-12-09