



JORDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY
Faculty of Veterinary Medicine
Department of Veterinary Clinical Sciences
Veterinary Infectious Diseases

READING MATERIALS	
Text Book	Radostitis, et al., 2007, Veterinary Medicine : A Text Book of the Diseases of Cattle, Sheep, Pigs, Goat and Horses Timoney, et al., 1988, Hagan and Burner's Microbiology and Infectious Diseases of Domestic Animals
Additional Readings	Smith B., 2008. Large Animal Internal Medicine Radostitis, O.M., et al., 2001, Herd Health: Food Animal Production Medicine

GRADING		
Exam	Expected Due Date	Weight
First Exam		30 points
Second Exam		30 points
Final Exam	TBA	40 points
Total		100 points

COURSE DESCRIPTION
Disease is an alteration of the state of a body or of some of its organs that interrupts or disturbs proper performance of bodily functions. Such functional disturbance is manifested by physical signs that can be detected by others. Infectious diseases defined as diseases that can be transmitted directly or indirectly from a host to another, and these diseases are mainly caused by, bacterial, viral, parasitic or fungal agents. In this course, we will visit such diseases and we will examine carefully the causative agent and the mechanism used by these agents to produce the disease. In addition, we will identify the risk factors and other epidemiological markers that contributed to the occurrence of these infectious diseases. The control and prevention programs for these diseases will be intensively discussed and modified to fit Jordan.

COURSE OBJECTIVES

At the end of this course, each student will be able to:

- Identify the most important infectious diseases of domestic animals
- Learn how to diagnose infectious diseases of domestic animals
- Understand the pathogenesis of infectious diseases
- - Learn how to investigate disease outbreaks
- Build suitable control programs against infectious diseases of domestic animals

COURSE CONTENTS

Weeks	Topic	Lecturer
1	Introduction to Infectious Diseases	
1-2	Infectious Diseases of the Mammary gland <u>Bacterial Diseases</u> Contagious Mastitis Environmental Mastitis Mycoplasmal Mastitis Pasteurella Mastitis Black mastitis <u>Viral Diseases</u> Bovine Ulcerative Mammallitis <u>Others</u> Mycotic Mastitis	
3	Infectious Diseases of the Nervous System <u>Bacterial Diseases</u> Listeriosis Tetanus Botulism Bacterial Meningitis Shaker Foal Syndrome <u>Viral Diseases</u> Louping Ill Equine Encephalomyelitides <u>Others</u> Bovine Spongiform Encephalopathy (BSE) Scrapie	

4-5	<p>Infectious Diseases of the Genital Tract</p> <p><u>Bacterial Diseases</u></p> <ul style="list-style-type: none"> Brucellosis Leptospirosis Vibriosis Chlamydial Abortion (Enzootic Abortion) Epizootic Bovine Abortion Q-Fever Contagious Equine Metritis Tick-Borne Fever <p><u>Viral Diseases</u></p> <ul style="list-style-type: none"> Infectious Pustular Vulvovaginitis (IPV) Akabane Disease Equine Coital Exanthema <p><u>Others</u></p> <ul style="list-style-type: none"> Toxoplasmosis Trichomoniasis Mycotic Abortion 	
6-7	<p>Infectious Diseases of the Respiratory Tract</p> <p><u>Bacterial Diseases</u></p> <ul style="list-style-type: none"> Shipping Fever Pneumonia Complex Hemorrhagic Septicemia Contagious Bovine Pleuropneumonia Contagious Caprine Pleuropneumonia Bacterial Pneumonia in Horses Suppurative Bronchopneumonia Strangles Glanders (Farcy) <p><u>Viral Diseases</u></p> <ul style="list-style-type: none"> Infectious Bovine Rhinotracheitis (IBR) Maedi-Visna Jaagsiekte Disease (Adenomatosis) Equine Influenza Equine Viral Arthritis Equine Infectious Anemia (EIA) African Horse Sickness <p><u>Others</u></p> <ul style="list-style-type: none"> Guttural Pouch Infection 	
8-9	<p>Infectious Diseases of the Gastrointestinal Tract</p> <p><u>Bacterial Diseases</u></p> <ul style="list-style-type: none"> Colibacillosis and Colisepticemia Clostridial Enterotoxemia Salmonellosis Johne's Disease Bacillary Hemoglobinuria Sleepy Foal Disease Tyzzer's Disease 	

	<p>Neonatal Septicemia</p> <p><u>Viral Diseases</u></p> <p>Rotavirus and Coronavirus Infection Bovine Viral Diarrhea Bovine Malignant Catarrhal Fever Rinderpest Petste des Petits Ruminants (PPR) Wesselsborn Disease Rift Valley Fever</p> <p><u>Others</u></p>	
10-11	<p>Infectious Diseases of the Skin</p> <p><u>Bacterial Diseases</u></p> <p>Actinomycois (Lumpy Jaw) Actinobacillosis (Wooden Tongue) Caseous Lymphadenitis Staphylococcal Dermatitis Ulcerative Lymphangitis Staph. Scaled Skin Syndrome (SSSS)</p> <p><u>Viral Diseases</u></p> <p>Papillomatosis Pseudolumpy Skin Disease Contagious Pustular Dermatitis (ORF) Pox Border Disease (Hairy Shaker Disease)</p> <p><u>Others</u></p> <p>Ringworm Facial Eczema Epizootic Lymphangitis</p>	
12	<p>Infectious Diseases of the Musculoskeletal System</p> <p><u>Bacterial Diseases</u></p> <p>Blackleg Malignant Oedema Joint-Ill Bacterial and Mycoplasmal Arthritis Foot Rot Bovine Ephemeral Fever Proliferative Dermatitis</p> <p><u>Viral Diseases</u></p> <p>Foot and Mouth Disease Vesicular Stomatitis Bluetongue</p>	
13	<p>Infectious Diseases of the small animals</p> <p>Ehrlichosis Rabies Canine Distemper Canine Hemorrhagic Gastroenteritis Bacterial Colitis of Canine</p>	

	<p>Infectious Necrotic Hepatitis (Black Disease) Canine Parvovirus Infection Infectious Canine Hepatitis Feline Panleukopenia Feline Leukemia Cryptosporidiosis Canine and Feline Histoplasmosis Pseudorabies (Mad Itch) Kennel Cough Feline Viral Rhinotracheitis Lyme Disease Feline Leprosy</p>	
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