



Jordan University of Science and Technology
 Faculty of Veterinary Medicine
 Department of Veterinary Clinical Sciences
 Food animal medicine VM 471

READING MATERIALS		
Text Book	<ul style="list-style-type: none"> • Radostits, et al., 9th edition 2003, Veterinary Medicine: A textbook of the diseases of Cattle, Sheep, Pigs, Goats and Horses • Smith B., 3rd edition 2002. Large Animal Internal Medicine 	
Additional Reading (Books)	<ul style="list-style-type: none"> • Howard J., 1999, Current Veterinary Therapy, Food animal practice • American Journal of Veterinary Medical Association • Bovine Practitioner • Vet Clin North Am. Large animal practice • Veterinary Record • American Journal of Veterinary Research 	
Additional Reading (Journals)		
GRADING		
Exam	Expected Due Date	Weight
First Exam		30
Second Exam		30
Final Exam		40
Total		100

Dr. Myassar Alekish

COURSE DESCRIPTION:

The aim of this course is to provide the students with a basic understanding of the general systemic states and the clinical approach to diagnosis and treatment of common medical diseases of digestive, respiratory, urinary, cardiovascular and integumentary systems of food animals. Assessment and management of the metabolic and nutritional states of the food animals will be also focused on in this course.

OBJECTIVES OF THE COURSE:

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

- Build up a diagnosis of the common problems related to digestive, respiratory, urinary, cardiovascular, integument and nervous systems of food animals.
- Outline a differential diagnosis list and decide on a proper procedures for establishing a final diagnosis for problems of the related systems.
- Appreciate and converse management changes or therapeutic methods that are used to prevent, control, and treat common diseases of food animals.

COURSE CONTENTS		
Week	Topic	Lecturer
1-3	<p><i>Diseases of the cardiovascular system</i></p> <ul style="list-style-type: none"> • Principles of circulatory failure • Pericarditis • Endocarditis • Congestive heart failure • Acute heart failure • Peripheral circulatory failure • Shock • Edema • Vena caval thrombosis <p>Disease of the lymphatic system</p>	
3-4	<p><i>Diseases of the skin</i></p> <p>Diseases of the epidermis and dermis</p> <ul style="list-style-type: none"> • Pityriasis • Parakeratosis • Hyperkeratosis • Pachyderma • Impetigo • Urticaria • Dermatitis • Photosensitization <p>Diseases of the hair, wool, follicles, skin glands</p> <ul style="list-style-type: none"> • Alopecia and hypotrichosis • Achromotrichia 	

	<ul style="list-style-type: none"> • Seborrhea • Acne and folliculitis <p>Diseases of the subcutis</p> <ul style="list-style-type: none"> • Anasarca • Angioedema • Emphysema • Lymphangitis • Panniculitis • Hemorrhage • Subcutaneous abscess <p>Neoplastic skin diseases</p> <ul style="list-style-type: none"> • Squamous cell carcinoma • Sarcoid • Papillomatosis • Melanoma • Histiocytoma <p>Immunological skin disease</p> <ul style="list-style-type: none"> • Urticaria • Food hypersensitivity • Drug eruptions <p>Pemphigus foliaceus</p>	
5-6	<p><i>Diseases of the Respiratory System:</i></p> <p>Clinical Manifestation of Respiratory System</p> <p>Diseases of the Upper Respiratory Tract:</p> <ul style="list-style-type: none"> • Rhinitis, Sinusitis • Obstruction of Nasal Cavities • Epistaxis and Hemoptysis • Laryngitis, Tracheitis, Bronchitis • Diseases of the Guttural Pouch <p>Diseases of the Lung:</p> <ul style="list-style-type: none"> • Pulmonary Congestion and Edema • Pulmonary Emphysema • Pneumonia • Caudal Vena Caval Thrombosis <p>Diseases of the Pleura and Diaphragm:</p> <ul style="list-style-type: none"> • Hydrothorax and Hemothorax • Pneumothorax • Pleurisy • Principles of treatment and control of respiratory tract disease <p>.</p>	
7	<p><i>Metabolic disorders</i></p> <ul style="list-style-type: none"> • Milk fever • Downer cow syndrome • Grass tetany 	

	<ul style="list-style-type: none"> • Ketosis of ruminants (acetonemia, pregnancy toxemia, fat cow syndrome) • Post-parturient hemoglobinuria 	
8-10	<p><i>Diseases of the Digestive System</i></p> <p>Diseases of the Rumen, Reticulum and Omasum:</p> <ul style="list-style-type: none"> • Simple Indigestion • Acidosis • Tympany • Traumatic Reticuloperitonitis • Vagus Indigestion • Traumatic Pericarditis • Omasum Impaction <p>Diseases of the Abomasum:</p> <ul style="list-style-type: none"> • Left Sided Displacement • Right Sided Displacement • Abomasal Impaction • Abomasal Ulcers <p>Diseases of the Intestine of Ruminants:</p> <ul style="list-style-type: none"> • Cecal Dilatation and Volvulus • Intestinal Obstruction • 	
11-12	<p><i>Nutritional deficiencies</i></p> <ul style="list-style-type: none"> • Cobalt deficiency • Copper deficiency • Iodine deficiency • Iron deficiency • Sodium chloride deficiency • Magnesium deficiency • Selenium and /or vitamin E deficiencies • Dietary deficiency of Ca, P, and vitamin D • Vitamin A deficiency • Vitamin K deficiency • Vitamin B-complex deficiencies 	
13	<p><i>Diseases of the urinary system</i></p> <ul style="list-style-type: none"> • Principles of renal insufficiency • Clinical features of urinary tract disease • Therapeutic management of urinary diseases • Diseases of the kidney • Diseases of the bladder, ureters and urethra • Congenital defects of the urinary tract 	