

Jordan University of Science and Technology
Faculty of Veterinary Medicine
Department of Pathology and Animal Health
First Semester 2007

Course Information	
Course Title	Animal Nutrition
Course Number	VM323
Prerequisites	VM222, VM223
Course Website	Unavailable
Instructor	Dr. Mofleh S. Awawdeh
Office Location	C1-L3
Office Phone	22068
Office Hours	Sunday 11:15-12:12, 1:15-2:15; Thursday 11:15-12:15. If I am in my office, all students are welcomed
E-mail	mawawdeh@just.edu.jo , dr.awawdeh@gmail.com
Teaching Assistant	None
Course Description	
This course will familiarize students with the fundamentals of nutrition as they relate to feeding livestock species. Specifically: 1) digestive tract anatomy of ruminant and monogastrics, 2) feedstuffs and their use in feeding livestock, 3) major nutrients and their digestion, absorption, and metabolism, 4) ration formulation, 5) feeding dairy and beef cattle, poultry, equine, cats and dogs, and 6) nutritional problems resulted from over-or-under feeding.	

Text Book	
Title	Basic Animal Nutrition and Feeding
Author(s)	Pond, Church, Pond, and Schoknecht
Publisher	Wiley
Year	2005
Edition	5 th
Book Website	Unavailable
References	

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam	7 th week	20%
Second Exam	12 th week	20%
Practical	Midterm, reports	20%
Assignments	Assignments & quizzes	10%
Final Exam	Announced by registration office	30%

Course Objectives	Weights
1. To understand GIT anatomy of ruminant and monogastric.	15%
2. Study different feedstuffs and their use in feeding livestock animals.	10%
3. Study major nutrients and their digestion, absorption, and metabolism.	30%
4. Feeding dairy and beef cattle, poultry, equine, cats and dogs.	30%

5. Nutritional problems resulted from over-or-under feeding.	15%
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Teaching & Learning Methods
Lectures, practical sessions, home works, and assignments.

Learning Outcomes: Upon successful completion of this course, students will be able to		
Differentiate between ruminants and monogastrics in terms of feeding.		
Use the feedstuff appropriate for production purposes.		
Understand the main principles of diet formulation and their application for feeding livestock.		
Recognize nutritional disorders and their prevention.		

Useful Resources
Internet.

Course Content		
Week	Topics	Handouts
1	Introduction	1
2	Major Nutrients	2
2, 3	GIT & Nutrition	3
3, 4	Rumen Microbiology & Motility	4
4, 5	CHO Metabolism	5
5	Protein Metabolism	6
6	Lipid Metabolism	7
6	Energy Metabolism	8
7	Macro-minerals Metabolism	9
7	Micro-minerals Metabolism	10
8	Vitamins Metabolism	11
9	Feedstuffs: (high-energy feedstuffs)	12
9	Feedstuffs: (protein sources)	12
10	Feedstuffs: (Minerals & feed additives)	12
10, 11	Diet formulation	13
12	Feeding dairy cattle	14

13	Feeding Beef cattle	15
13	Feeding poultry	16
14	Equine Nutrition	19
14	Dog & Cat nutrition	18
15	Nutritional disorders & problems	17

Additional Notes	
Assignments	It is expected that all academic work completed in this class be done individually by you.
Exams	Final exam will worth 30%. 10% will be for practical sessions.
Cheating	Plagiarism and cheating are serious offenses and may be punished by failure on the exam, paper, or project; failure in the course according to JUST rules.
Attendance	Highly recommended and required by JUST rules. There will be no makeup for quizzes and HW for unexcused absence.
Workload	Depends on your attendance, participation, and taking complementary notes.
Graded Exams	Will be discussed with students.
Participation	Highly recommended.
Laboratory	
Projects	No specific project. But, there will be some assigned papers.