

Jordan University of Science and Technology
Faculty of Agriculture
Department of Animal Production
Semester

Course Information	
Course Title	Feeds and Feeding
Course Number	AP 232
Prerequisites	
Course Website	
Instructor	
Office Location	
Office Phone	
Office Hours	
E-mail	
Teaching Assistant	
Course Description	

Text Book	
Title	Livestock Feeds and Feeding
Author(s)	Kellems & Church
Publisher	Prentice Hall
Year	2002
Edition	5 th edition
Book Website	
References	Applied Animal Nutrition Edited by Peter R. Cheeke. Prentice Hall, 3rd edition 2005. ISBN 0-13-113331-4

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam		25
Second Exam		25
Final Exam		40
Assignments		10

Course Objectives	Weights
– To understand how animals use the nutrients they eat and why the nutritional value of feeds differs.	
– To apply key nutritional concepts to feeding domestic livestock.	
– Emphasis on critical nutrient requirements and nutrient balance will be made	

Teaching & Learning Methods

Learning Outcomes: Upon successful completion of this course, students will be able to
– Distinguish the major classification of feeds.
– Become proficient at balancing nutrients, diet formulation, assessing biological efficiency and least cost rations.

Useful Resources

Course Content		
Week	Topics	Chapter in Text (handouts)
1	The gastrointestinal tract and nutrient utilization: Anatomy, Function and comparative of GIT	2
2-3	Nutrients: Function, Requirements, Sources	3
4	Feedstuffs: Introduction, Chemical Analysis	4
5	High-energy feedstuffs: Definition, Cereal grains, relative values of cereal grains, Byproduct feeds	5
6	High protein feeds: Biological value of protein, Plant sources, Animal sources, Non-protein nitrogen.	6
7	Roughages: Definition, Chemical composition, Harvesting, storage, processing	7
8-12	Ration Formulation	12
13	Feed Additives	9
14	Feed Processing	11
15	Feeding and Nutrition of Small Ruminants: Sheep, Goats	16
16	Feeding and Nutrition of Dairy Cattle	17

Additional Notes	
Assignments	
Exams	Will be a combination of True and False, Multiple Choice, fill in the blank, problems, and short essay questions. No makeup exams unless the student is excused. Makeup exams will not be the same exam given to the rest of the class.
Cheating	
Attendance	
Workload	
Graded Exams	
Participation	Lecture participation is essential
Laboratory	
Projects	