

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

Course Information	
Course Title	Ruminant Nutrition
Course Number	AP 435
Prerequisites	AP 232
Course Website	
Instructor	Prof. Serhan G. Haddad
Office Location	M1L3
Office Phone	
Office Hours	12:00-1:00 Sat., Mon. and Wednesdays.1 - 2:15 on Tuesdays or by appointment
E-mail	
Teaching Assistant	
Course Description	

Text Book	
Title	The Ruminant Animal, Digestive Physiology and Nutrition
Author(s)	
Publisher	D. C. Church
Year	
Edition	
Book Website	
References	Nutritional Ecology of the Ruminant by P. J. Van Soest

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam		20
Second Exam		20
Final Exam		40
Class practicales		20

Course Objectives	Weights
To become acquainted with and learn important principles of nutrition and their applications to feeding ruminant livestock.	

Teaching & Learning Methods

Learning Outcomes: Upon successful completion of this course, students will be able to

Useful Resources

Course Content		
Week	Topics	Chapter in Text (handouts)
1	Introduction to the course	
1	Classification of ruminant animals and their importance	
2	Anatomy and physiology of the GI tract of ruminant animals Mouth and the associated glands The complex stomach Small intestine and the associated glands Hind gut	
3	Development of the GI tract in new born ruminants	
4	Rumen microbiology	
5-6	Ruminal fermentation. Carbohydrates metabolism	

	Protein metabolism Lipid metabolism	
7	Energy metabolism and bioenergetics	
7-8	Intake and intake regulation in ruminants	
9	Nutrients requirements	
10	Formulating rations for fattening lambs and steers	
11-12	Nutritional problems related to gastrointestinal tract	
13-14	Current issues	

Additional Notes	
Assignments	
Exams	Make-up exams are always more difficult than the original exam. The design of the make-up exam is completely at the discretion of the instructor. The make-up exam may even be a 1 hour oral examination. If you foresee that you will be missing an exam, please notify the instructor as early as possible.
Cheating	
Attendance	Attendance will have a <u>direct</u> effect on your grade, and chronic absenteeism will not be tolerated. If you are going to miss a lecture, please notify the instructor.
Workload	
Graded Exams	
Participation	
Laboratory	
Projects	