

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

AP333 Range Animal Nutrition

First Semester 2022-2023

Course Catalog

3 Credit Hours. Animal nutrition on rangeland, which includes nutrition, management, grazing systems and forage classifications. (Prerequisite: AP 232).

Text Book			
Title	Applied Animal Nutrition		
Author(s)	Peter R. Cheeke		
Edition	3rd Edition		
Short Name	APPANIMNUTR		
Other Information			

Course References

Short name	Book name	Author(s)	Edition	Other Information
NUTR ECO RUM	Nutritional Ecology of the Ruminants	Peter J. Van Soest	2nd Edition	

Instructor		
Name	Prof. Belal Obeidat	
Office Location	M1L3	
Office Hours		
Email	bobeidat@just.edu.jo	

Class Schedule & Room	
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Section 1: Lecture Time: Wed : 10:00 - 11:30 Room: C3014

Prerequisites			
Line Number Course Name Prerequisite Type			
612320	AP232 Feeds And Feeding	Prerequisite / Study	

Tentative List of Topics Covered			
Weeks	Торіс	References	
Weeks 1, 2	Introduction to the course and Range Terminology	From APPANIMNUTR, From NUTR ECO RUM	
Weeks 2, 3	Forages and Nutritional Quality	From APPANIMNUTR, From NUTR ECO RUM	
Weeks 4, 5	The Ruminant Animal and the Environment, Characteristics of the Rumen, Particle Size of Consumed Forages, Nutrient Requirements of Grazing Animals, Factors that Influences Forage Intake	From APPANIMNUTR, From NUTR ECO RUM	
Week 6	Forage Intake by Grazing Animals, Control versus Influences, Single versus Multiple Controls over Intake, Short and long-term Controls over Intake	From APPANIMNUTR, From NUTR ECO RUM	
Weeks 7, 8	Supplementation, Type of Supplementation, Guidelines for supplemental Feeding, Successful Supplementation Programs	From APPANIMNUTR, From NUTR ECO RUM	
Weeks 9, 10	Nutritional Analysis of Forages Introduction Nutritive Evaluation of Forages Intake as a Component of Forage Quality	From APPANIMNUTR, From NUTR ECO RUM	
Weeks 11, 12	Apparent Digestibility	From APPANIMNUTR, From NUTR ECO RUM	

Week 13	Grazing Animal Behavior	From APPANIMNUTR, From NUTR ECO RUM
Week 14	Grazing Methods	From APPANIMNUTR, From NUTR ECO RUM

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Studying the application of animal nutrition and production principles to grazing situations [1SLO 1, 1SLO 2]	10%	
Knowing the interactions of herbivores and their environment as related to nutritive value and intake requirements of range herbivores [1SLO 2]	25%	
Understanding range animal nutrition and the forage/ruminant complex [1SLO 3, 1SLO 4]	25%	
Knowing forage, classifications, quality and characteristics [1SLO 3]	20%	
Knowing range animal nutrition techniques [1SLO 3]	5%	
Understanding basics of supplementation programs of range animals [1SLO 3, 1SLO 4]	10%	
Knowing grazing methods [1SLO 4]	5%	

Relationship to Program Student Outcomes (Out of 100%)			
SLO 1	SLO 2	SLO 3	SLO 4
5	30	42.5	22.5

Evaluation		
Assessment Tool	Weight	
First Exam	30%	
Final Exam	40%	
Second Exam	30%	

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