



Jordan University of Science and Technology
Faculty of Veterinary Medicine
Veterinary Medicine And Surgery Department

VM321 Animal Nutrition

Summer Semester 2019-2020

Course Catalog

2 Credit Hours. The course will discuss the fundamentals of animal nutrition including: feedstuffs and their use in livestock feeding, nutrients and how they are digested, absorbed, and metabolized by ruminant and monogastric animals. Additionally, nutrient requirements, diet formulation, and feeding management of livestock animals will be covered. Finally, nutritional (deficiency and toxicity) and metabolic disorders will be studied.

Text Book

Title	Basic Animal Nutrition and Feeding (5th Ed. 2005)
Author(s)	Pond, Church, Pond, and Schoknecht. John
Edition	5th Edition
Short Name	1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
2	Applied Animal Nutrition (3rd Ed. 2005)	Cheeke	3rd Edition	
3	Livestock Feeds and Feeding (5th Ed. 2002)	Kellems and Church	5th Edition	

Instructor

Name	Prof. Mofleh Awawdeh
Office Location	M1-L0
Office Hours	Sun : 10:30 - 11:30 Sun : 14:30 - 15:30 Mon : 10:30 - 11:30 Mon : 14:30 - 15:30 Tue : 14:30 - 15:30 Wed : 14:30 - 15:30

Email	mawawdeh@just.edu.jo
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Class Schedule & Room

Section 1:
Lecture Time: Sun, Mon, Tue, Wed : 08:30 - 09:30
Room: منصة الكترونية

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction	
Week 1	GIT & Nutrition	
Week 2	Rumen Microbiology & Motility	
Week 2	Major Nutrients	
Week 3	CHO Metabolism	
Week 4	Protein Metabolism	
Week 5	Lipid Metabolism	
Week 5	Energy Metabolism	
Week 6	Macro-Minerals	
Week 7	Micro-Minerals	
Week 8	Vitamins	
Week 9	Feed Analysis	
Week 9	Feedstuffs	
Week 10	Diet Formulation	
Week 11	Feeding dairy cattle	
Week 12	Feeding beef cattle	
Week 12	Feeding Sheep	
Week 13	Feeding Horses	
Week 14	Feeding poultry	
Week 15	Feeding cats & dogs	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Differentiate between ruminant and monogastric animals in terms of nutrient utilization.	10%	

Understand differences in feedstuffs and their use in livestock feeding.	30%	
Understand different nutrients and how they are digested, absorbed, and metabolized by ruminant and monogastric animals.	30%	
Formulate rations and feeding dairy and beef cattle, sheep, horses, poultry, and companion animals (cats and dogs).	30%	

Relationship to Program Student Outcomes (Out of 100%)									
1	2	3	4	5	6	7	8	9	10

Evaluation	
Assessment Tool	Weight
1st Exam	30%
2nd Exam	30%
Final Exam	40%

Policy	
Course Policy	<p>Assignments: It is expected that all academic work completed in this class is done individually by you.</p> <p>Exams: Three exams (1st, 2nd, and final)</p> <p>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.</p> <p>Attendance: Highly recommended and required by JUST rules. There will be no makeup for quizzes and HW for unexcused absence.</p> <p>Workload: Depends on your attendance, participation, and taking complementary notes.</p> <p>Graded Exams: Will be discussed with students.</p> <p>Participation: Required and highly recommended.</p>

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