Jordan University of Science and Technology

Faculty of Agriculture

Animal Production Department

AP312 Dairy Cattle Production
Second Semester 2020-2021

Course Catalog
3 Credit Hours. Breeding, feeding, reproduction, lactation, and health management of dairy herds. (Prerequisite: AP 232).

Text Book	
Title	Dairy Cattle Science
Author(s)	Howard Tyler and M. E. Ensminger
Edition	4th Edition
Short Name	Dairy Cattle Science
Other Information	

Instructor	
Name	**Prof. Belal Obeidat**
Office Location	M1L3
Office Hours	Sun : 09:00 - 11:00 Mon : 09:00 - 11:00 Tue : 09:00 - 11:00 Thu : 09:00 - 10:00
Email	bobeidat@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun, Tue : 11:30 - 13:00 Room: منصة الكترونية

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

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Week 1	Introduction to the course	
Week 2	Dairy Cattle Industry and Breeds	
Week 3	Milk components and Factors Affecting milk composition, Milk Quality and Milking Procedures, Milk Letdown Reflex	
Week 4	Reproduction, Problems Associated with Reproduction	
Week 5	Body Condition Score	
Week 6	Nutrition: Protein and Lipids	
Week 7	Nutrition: Minerals and Vitamins	
Week 8	Nutrition: Calves and Heifers	
Week 9	Nutrition: Fresh- and Early-Lactation	
Week 10	Nutrition: Mid- and Late-lactation	
Week 11	Nutrition: Dry Cows	
Week 12	Heifer raising Management	
Week 13	Metabolic Disorders	
Week 14	Employee Management	
Week 15	Dairy Record	
Week 16	Facilities and Equipment, Dairy Farm Biosecurity	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Know the importance of dairy cattle industry	5%	Midterm Exam
Know the most important breeds of dairy cattle	5%	Midterm Exam
Understand the milking process and secretion and factors affecting milk production and composition	10%	Midterm Exam, Final
Understand reproduction, feeding and ration formulation for dairy cattle sectors (pre-weaned calves, heifers, early-, mid-, late-lactation and dry cows)	40%	Midterm Exam, Final
Recognize the important diseases of dairy cattle and their prevention	30%	Final
Know the employee management, production, and housing systems of dairy cattle, records	10%	Final

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

Evaluation	
Assessment Tool	**Weight**
Midterm Exam	50%
Final	50%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the department chair
Cheating	Prohibited; and in case of cheating the student will be subject to punishment according to the university regulations
Attendance	Up to 20% in accordance with university policy
Participation	Participation is highly encouraged and mandated
Withdraw	According to the timeline defined by the university regulations

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