

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

Course Information	
Course Title	Dairy Cattle Production
Course Number	AP 312
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	Dairy Cattle: Principles, Practices, Problems, Profits.
Author(s)	Bathey al.
Publisher	
Year	1985
Edition	
Book Website	
References	From time to time during the semester, references to particular journal articles and review papers will be provided

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

Course Objectives	Weights
To understand how the subjects of nutrition, reproduction, milking management, records management integrate with the operation of commercial dairy production.	
To understand how to apply these concepts to the efficient management of a dairy herd whose goal is high production and quality product.	

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	Milk and milk products (Importance in Jordan)	
1	Dairy cattle breeds	
1	Dairy record keeping	
2	Lactation and lactation cycle	
2	Lactation biology	
3-4	Dairy cattle nutrition Carbohydrates, protein, lipid Minerals and vitamins	

	Common feeds for dairy cattle in Jordan Formulating rations for dairy cattle	
5-6	Principles of reproductive physiology Estrus cycle Heat detection Synchronization of the estrus cycle	
7	Pregnancy and calving	
8	Management of the new born calves	
9	Growing heifer management	
9	Herd management	
10-12	Common problems in dairy farms Fat test Mastitis Milk fever Ketosis Foot problems Water quality TMR versus other feeding systems	
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	