

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

<b>Course Information</b>	
<b>Course Title</b>	<b>Beef Production</b>
<b>Course Number</b>	AP 413
<b>Prerequisites</b>	
<b>Course Website</b>	
<b>Instructor</b>	Dr. Belal Obeidat
<b>Office Location</b>	M1L3
<b>Office Phone</b>	7201000 Ext. 22214
<b>Office Hours</b>	10:15 – 12:15 (Sun and Tue) or by appointment
<b>E-mail</b>	<a href="mailto:bobeidat@just.edu.jo">bobeidat@just.edu.jo</a>
<b>Teaching Assistant</b>	
<b>Course Description</b>	

<b>Text Book</b>	
<b>Title</b>	Beef Production Management & Decisions
<b>Author(s)</b>	T. G. Field and R. E. Taylor
<b>Publisher</b>	Pearson Education, Inc., Upper Sandle River, NJ 07458
<b>Year</b>	2003
<b>Edition</b>	4 <sup>th</sup> Ed
<b>Book Website</b>	
<b>References</b>	1. NRC, Nutrient Requirements of Beef Cattle, 7 <sup>th</sup> revised ed. National Academy Press, Washington, DC. 1996

<b>Assessment Policy</b>		
<b>Assessment Type</b>	<b>Expected Due Date</b>	<b>Weight</b>
<b>First Exam</b>		30
<b>Second Exam</b>		30
<b>Final Exam</b>		40

<b>Course Objectives</b>	<b>Weights</b>
Emphasis is on the management of reproduction, nutrition, health management, and selection in beef cattle production.	
Impact of cattle production on the human food supply and environment	

is considered.	
Methods of optimizing production through selection, crossbreeding, feeding, herd health, and pasture management are emphasized.	

<b>Teaching &amp; Learning Methods</b>

<b>Learning Outcomes:</b> Upon successful completion of this course, students will be able to
Describe the major factors that influence beef cattle production.
Determine nutrient requirements and formulate balancing rations to meet these requirements.

<b>Useful Resources</b>

<b>Course Content</b>		
<b>Week</b>	<b>Topics</b>	<b>Chapter in Text (handouts)</b>
1-2	Introduction and an overview of the Beef Industry General Overview Beef Industry Segments Beef Industry Organizations	
3	Beef Cattle Breeds What is a Breed? Types and Breeds of Beef cattle Breed Evaluation for Commercial Production	
4	Commercial Cow-Calf Management Decisions Factors Affecting Pounds of Calf Weaned Managing Percent Calf Crop Managing Weaning Weights	
5	Yearling-Stocker Management Decisions History of the Fed Cattle Industry Types of Cattle Feeding Operations Managing a Feedlot Operation	
6	Feedlot Management Decisions History of the Fed Cattle Industry Types of Cattle Feeding Operations Managing a Feedlot Operation	
7	Reproduction Structure and Function of the Reproductive Organs Breeding Pregnancy and Calving	

8	Nutrient Requirements Energy and Protein Minerals and Vitamins	
9-10	Nutrition Proximate analysis of Feeds Cow-Calf Nutrition Feeding Feedlot Cattle	
11-12	Ration Formulation	
13	Feed Additives	
13	Feed Bunk Management	
14-15	Managing Forage Resources Grazed Forage Resources Grazing Management Drought Management Health Problems Associated with Grazing Plants	
16	Cattle Behavior, Facilities, and Equipment Behavior Facilities and Equipment	

<b>Additional Notes</b>	
<b>Assignments</b>	
<b>Exams</b>	<b>Written exams</b> will be a combination of True and False, Multiple Choice, fill in the blank, problems, and short essay questions. No makeup exams unless the student is excused. Makeup exams will not be the same exam given to the rest of the class.
<b>Cheating</b>	
<b>Attendance</b>	
<b>Workload</b>	
<b>Graded Exams</b>	
<b>Participation</b>	Lecture participation is essential
<b>Laboratory</b>	
<b>Projects</b>	