

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

Course Information	
Course Title	Feed Analysis
Course Number	
Prerequisites	AP 232
Course Website	
Instructor	Dr. Belal Obeidat
Office Location	M1L3
Office Phone	7201000 Ext. 22214
Office Hours	10:15 – 11:15
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Course Description	

Text Book	
Title	Laboratory Procedures in Animal Nutrition Research
Author(s)	May and Galyean.
Publisher	
Year	
Edition	
Book Website	
References	

Assessment Policy		
Assessment Type	Expected Due Date	Weight
Mid-term Exam		30
Final Comprehensive Exam		40
Weekly Assignments		20
Weekly Quizzes		10

Course Objectives	Weights
To provide an understanding of both the theory and practice of principle analytical procedures in animal nutrition.	

Teaching & Learning Methods

Learning Outcomes: Upon successful completion of this course, students will be able to
Learn how feed is analyzed and to know the purpose of analyzing feedstuff in the farm operations.

Useful Resources

Course Content		
Week	Topics	Chapter in Text (handouts)
1	Introduction and Laboratory safety	1
1	Sampling Techniques	1
1	Reliability of Laboratory Results	1
2	Feed Identification	1
3	Proximate Analysis:	1
3	a) Dry Matter	1
3	b) Ash and Organic Matter	1
4	c) Crude Protein	1
5	d) Crude Fat or Ether Extract	1
6	e) Crude Fiber	1
6	f) Nitrogen Free Extract	1
7	Midterm Exam	1
8	Detergent Fiber System	1
9	a) Neutral Detergent Fiber	1
9	b) Acid Detergent Fiber	1

10	c) Acid Detergent Lignin	1
11	Energy a) Oxygen Bomb Calorimetry b) Energy Systems in Animal Nutrition	1
12	No Lab (Labor Day)	1
13	Measures of Digestibility a) Conventional	1
14	Review	1
	Final Exam (Comprehensive)	1

Additional Notes	
Assignments	
Exams	Will be a combination of essay questions and problems. No make up exams unless the student is excused
Cheating	
Attendance	
Workload	Weekly assignments must be prepared using the following outline: Title, Introduction, Methods, Results and Discussion, and Conclusions. Reasons for selected certain methods and chemicals reactions should be described. Lab assignments must be turned on no later one week after the procedure was assigned to the students. Weekly Quizzes are designed to cover materials that were given in the previous lab.
Graded Exams	
Participation	Lab participation is essential
Laboratory	
Projects	