

<b>King Saud University</b>		<b>Spring Semester (2012)</b>
Faculty of Agriculture		Dr. Alaeldein Mahmoud
Dept. of Animal Production		Time: Monday 1-3. Lab 2-5 Tuesday
<b>ANPR 512 Advanced Poultry Nutrition</b>		

<u>Date</u>	<u>Lecture Topic</u>
11/2/07	Anatomy and physiology of the digestive system
18/2/07	Nutrients, nutrient metabolism, and nutrient requirements for poultry
18/3/07	Ingredient evaluation and diet formulation
21/3/07	First exam
25/3/07	Feeding programs for growing –egg strain pullets
1/4/07	Feeding programs for laying hens
15/4/07	Feeding programs for broilers
25/4/07	Second exam
29/4/07	Feeding programs for breeders
6/5/07	Feeding programs for turkeys, waterfowls, and ratites

### Course description and Goals

An advanced course dealing with the nutrition of poultry. In-depth coverage of nutrients, nutrient metabolism, and nutrient requirements. Study of the biochemical and physiological functions of nutrients in life processes. At the completion of this course, students should have an advanced understanding of the fundamental principles of the nutrition of poultry. The course will prepare students in careers in the feed industry and farm management. The course is also designed to prepare students for graduate study in several areas of the animal sciences.

### Recommended Textbooks

Comparative avian nutrition (1998). KLasing  
Commercial poultry nutrition (1997), Lesson and Summers

### Attendance policy

The attendance policy in for this course will be as stated in Mutah University Student Handbook. Regular and punctual attendance at all class sessions is the responsibility of each student. A student who incurs excessive absences may be dropped from a course by the instructor. Students are expected to attend all classes.

### Academic Dishonesty

Cheating and other forms of academic dishonesty will be regarded as serious offenses. Anyone guilty of academic dishonesty will be prosecuted to the fullest extent of Mutah University regulations.

### Grading Policy

Grades will be assigned on the basis of student performance in two semester exams, a final exam, and Lab assignments & quizzes. The final exam will be comprehensive.

Hourly Exams (2 @ 20 each)	40
Lab assignment, quizzes, & mid-term	25
Final Exam	35

### Poultry Nutrition Laboratory

This is a poultry nutrition lab and you will learn to utilize information and principles of nutrition to do various calculations, formulate diets and work on real-world scenarios related to nutrition and feeding. You will be expected to remember lecture facts and to be prepared to take information and solve problems.

### Poultry Nutrition Laboratory, Schedule of Topics

<u>Lab</u>	<u>Date</u>	<u>Topic</u>
1	13/2	Review GI tract
2	20/2	DM/As-Fed calculations, Energy
3	27/2	Proximate Analysis
4	06/3	Feed evaluations, digestion/ metabolism trials
5	13/3	Reading tables
6	20/3	Basic diet formulation
7	27/3	Advanced diet formulations
8	03/4	Premix calculations
9	10/4	Mid-Term Exam
10	17/4	Least-cost rations
11	24/4	Broilers feed formulation
12	01/5	Layers feed formulation
13	08/5	Turkey feed formulation
14	15/5	Ratites feed formulation