

POSC 411 - Poultry Nutrition

POSC 411. Poultry Nutrition (3-0) Credit 3. II Principles of poultry nutrition with emphasis on all major nutrient classes and their relationships with the avian digestive system. Prerequisite: CHEM 222 or equivalent.

Instructors	Email	Phone	Room	Office Hours
Dr. Christopher Bailey	c-bailey@tamu.edu	845-7537	242 Kleberg	M-F 9:00 - 12:00
T.A. Nasril Surbakti	nasril@tamu.edu	845-7537	208 Kleberg	T-Th 2:00 - 4:00

Lecture Schedule

September 2	Introduction
September 4	Nutrition Terminology
September 9	The Avian Digestion System
September 11	Physiology of Digestion
September 16	Energy Concepts
September 18	Energy Metabolism
September 23	Energy Balance
September 25	Energy Requirements
September 30	34th Texas Broiler Symposium - Walk
October 2	MAJOR EXAM # 1
October 7	Introduction to Proteins and Amino Acids
October 9	Essential Amino Acids
October 14	Evaluating Protein Quality
October 16	Nitrogen and the Environment
October 21	Protein/Amino Acid Modeling/Soybean Meal
October 23	Protein and Amino Acid Requirements
October 28	MAJOR EXAM # 2
October 30	Lipids and Carbohydrates
November 4	Introduction to Vitamins
November 6	Essential Vitamins
November 11	Essential Minerals
November 13	Feed Grade Phosphates
November 18	MAJOR EXAM # 3
November 20	Non-Nutritive Feed Additives
November 25	Measurement of Diet & Ingredient Nutrient Quality
November 27	THANKSGIVING HOLIDAY
December 2	Naturally Occurring Toxins
December 4	Diet Recognition
December 9	Least Cost Feed Formulation
December 11	Reading Day - Walk
December 12	FINAL EXAM # 4 [3:00 - 5:00]

GRADING POLICY

4 Major Exams for a total of 400 points

13-15 Weekly Quizzes for a total of 100 points.

These closed book short quizzes will be completed on-line. If this "on-line" privilege is abused and I receive feedback that certain students are cheating then we will eliminate the "on-line" privilege and switch to "in-class" pop quizzes. All quizzes will cover the previous 1 or 2 lectures. We will drop 3-5 of the lowest quiz grades. The average of the best ten quizzes will count as a single major exam.

Final grades will represent the average of the 4 major exams plus the quiz average. Two points will be added to your final grade if you take the time for a personal visit with Dr. Bailey as described in the first classroom lecture.

NOTE: *Students registered for POSC 411 Section 702 (Distance Education) wishing to receive 2 points added to their final grade should submit a typed 1 page document introducing themselves and describing their goals and aspirations.*

Students can review their current grades at anytime from the POSC 411 Home Page .

- There will be no makeups for major exams without a university excused absence.
- > 90% = A
- > 80% = B
- > 70% = C
- > 60% = D
- < 60% = F

REQUIRED TEXT

Nutrient Requirements of Poultry, 9th Revised Edition, 1994 National Academy Press, Washington, D.C.

Scott's NUTRITION of the Chicken, 4th Edition, S. Leeson and J.D. Summers, 2001, [University Books](#), P. O. Box 1326, Quelfh, Ontario, N1H 6N8

Class Notes, available on the internet at <http://posc.tamu.edu/>

SUGGESTED TEXT

Commercial Poultry Nutrition, 2nd Edition, S. Leeson and J.D. Summers, 2001, University Books, P. O. Box 1326, Quelfh, Ontario, N1H 6N8

Poultry Feeds & Nutrition, Homer Patrick and Philip Schaible, AVI Publishing Company, Inc., Westport, Connecticut

Nutrition and Feeding of Poultry, M. Larbier and B. Leclercq, 1994, Nottingham University Press, Loughborough, Leicestershire, UK

Comparative Avian Nutrition, Kirk C. Klasing, 1998, CAB International, 198 Madison Avenue, Ney York, NY, 10016-4314

Recent Developments in Poultry Nutrition, D.J.A. Cole and W. Haresign, 1989, Butterworths, Boston, USA

Poultry Metabolic Disorders and Mycotoxins, S. Leeson, G. Diaz and J.D. Summers, 1995, University Books, P. O. Box 1326, Quelph, Ontario, N1H 6N8

Animal Feed Formulation, Economics and Computer Applications, Gene M. Pesti and Bill R. Miller, 1993, An AVI Book by Van Nostrand Reinhold, New York, NY

ADA Policy:

The Americans with Disabilities act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities (Koldus Building, Rm 126) at 845-1637.