



Syllabus

Ans 589 Micronutrient Metabolism

Spring 2024

Instructor: Byron Housewright, Ph.D
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COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings:

No required textbook

Course Description:

Independent study in Micronutrient Metabolism and Nutrition.

Student Learning Outcomes:

1. Student will be able to discuss and describe specific mineral/vitamin, antibiotic and additional micronutrient usage, formulation and metabolism.
2. Student will be able to evaluate their problem solving skills with respect to diet formulation with micronutrients.

COURSE REQUIREMENTS

Instructional / Methods / Activities Assessments

Bi-Monthly Meetings: Student will meet at twice monthly, either face-to-face or via email to discuss current status of project.

Assessment: Monthly assignments

Grading

Weekly reports (4) 400 points

A	>360
B	320 – 359
C	280 – 319
F	<280

There will be no extra credit work available.

TECHNOLOGY REQUIREMENTS

To be successful in the course, you will be provided access to university computers and facilities. The following items are available on university computers for your use.

1. Access to T: drive
2. MS Word
3. MS PowerPoint
4. High-speed internet for access to Science Direct and Journal of Animal Science

These items will be helpful for you, should you need to work at home.

1. Flash drive
2. MS Office or compatible software
3. High-speed internet access.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures:

Cheating of any kind will not be tolerated. Copying of others' work, use of disallowed material on exams, plagiarism in assignments or cheating in any other form as defined by the instructor will result in a grade of zero for that assignment. Multiple infractions will result in a grade of 'F' for the course and possible expulsion.

University Specific Procedures:

ADA Statement

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 for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gees Library 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamuc.edu
[Student Disability Resources & Services](#)

Student Conduct

Students are expected to respect the rights of others in the class. Cell phones and other electronic equipment should be turned off prior to the beginning of class. Use of these items during class time, or any other unwarranted classroom disruption, will result in your immediate excusal from class for the remainder of the period.

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See *Code of Student Conduct from Student Guide Handbook*).

COURSE OUTLINE / CALENDAR

Assignment	Date	Material Covered
Paper 1	February 1, 2024	Macro-mineral interactions and appropriate inclusion in rations for specific species. Interactions with absorption and metabolism.
Paper 2	March 1, 2024	Trace mineral interactions, molecule compound inclusion types and appropriate inclusion in rations as well as regional characteristics.
Paper 3	April 1, 2024	Anthelmintics, antibiotics and other medications and their ration inclusions, interactions and usage.
Paper 4	May 1, 2024	Specialty formulations and additives such as growth promotants, metabolic altering additives, flavor enhancers and pellet binders.