

Biology 2040 Animal Nutrition

Distance Learning Course 3 credit hr

Course Information

Course title: Animal Nutrition
Course number: Biology
Course description: This course emphasizes topics related to the fundamental and applied aspects of industrial and domestic animal nutrition. Principles covered include: classification and function of nutrients, deficiency symptoms, digestive processes, characterization of feedstuffs, and formulation of diets for animals.
Prerequisite(s): Principles of Biology (BIOL 1010 and 1011) and General Chemistry (CHEM 1100 and 1101).

Course Objectives and Learning Objectives

Course objectives: Provide the student with a working knowledge of animal nutrition and feedstuffs so that informed decisions can be made when dealing with nutrition and overall physiological health of animals.
Learning objectives: Students should develop an appreciation for the multi-varied aspects of nutrition and its contribution to the overall health of an animal. In particular, students should become familiar with the components of feedstuffs, the action of digestion, and the evaluation of an animal's nutritional health based on physical appearance.

Required Materials

Textbook:
Required course materials: Access to a computer to the internet to acquire course material and complete assignments and exams.

Instructor Information

Name: Leslie Blaylock
E-mail: lblayloc@aum.edu; Please email me with BIOL 2040 in the subject line. Instructor will make every attempt to reply to student within 2 business days.

General Class Policies

1. Course-related mail can be sent to a student's @auburn.edu address and is considered as "official" notification for class activities, exams, assignments, date changes, etc.
2. Discussion group contact with the instructor and fellow course mates is highly encouraged and expected, and should serve as an avenue for information as well as a monitor on your progress.
3. Students who encounter difficulties with the material should first consult the instructor with SPECIFIC questions via email address listed above.
4. Late submission of assignments or exams without a university issued excuse will not be accepted.

Examinations and Grading

Grades will be determined on a % of total points from scored items. There are a total of 500 points comprised of four 100 point unit exams and one 100 point feed-formulation activity. Points are distributed as follows. Exam 1, **100 points**; Exam 2, **100 points**; Exam 3, **100 points**; Exam 4, **100 points**; and feed-formulation activity, **100 points**.

Grading Scale:

A 90 – 100 %	D 60 - 69.9 %
B 80 - 99.9 %	F Below 60 %
C 70 - 79.9 %	

Exam information. Exams will be administered and completed online via Blackboard. Exam format will include 50 short answer, multiple choice, and essay questions with a 90-minute time limit which begins and cannot be interrupted once the student accesses the exam. Exam access will begin at 6 a.m. and will close at 12 midnight on listed exam date.

Student must contact instructor via email within 24 hours prior or post scheduled exam time, if he/she is unable to complete the exam and has a valid university deem excuse.

Plagiarism and Cheating

Students will be expected to complete exams without accessing course notes, PowerPoint presentations, and/or any website information. Plagiarism and cheating will not be tolerated. Please refer to the **Student Academic Honesty Code** in the **Student Handbook** for details and possible consequences.

Students with disabilities

Auburn University at Montgomery attempts to make reasonable accommodations to meet the special needs of its students with disabilities. Students requiring special services should notify their instructor as soon as possible. Assistance is available from the Center for Disability Services, which is located in Room 706 Library Tower, phone 334-244-3631.

Note: the last day to withdraw from this class is.

BIOLOGY 2040 COURSE TOPIC OUTLINE

This syllabus is subject to change due to rare and unforeseen circumstances.

Day & Date	Topic <i>Please note exam and project dates.</i>
	General Introduction to animal nutrition and its contribution to industrial and domestic animal health.
	Introduction of feedstuffs and components utilized in various feed formulations
	Water and electrolytes
	Carbohydrates
	Proteins
	Lipids
TBA	Exam 1
	Vitamins
	Minerals
	Non-nutritive feed additives, growth promotants
	Introduction to digestive and other contributing systems
	Digestive Anatomy: The systems and organs; Ruminant and Non-ruminant
	Digestive Physiology: The role of secretions; Ruminant and Non-ruminant
TBA	Exam 2
	Nutrient Absorption and Metabolism
	Factors affecting palatability and intake
	Signs and symptoms of nutrient deficiencies
	Affects of disease on nutritional requirement
	Affects of environment on nutritional requirements
	Affects of physiological homeostasis on nutritional requirements
TBA	Exam 3
	Importance of quality feedstuffs
	Feed formulation
	Feed manufacturing
	Economic impact of feedstuffs and industrial animals
TBA	Submit feed formulation project
TBA	Exam 4