

ANS 3440 – Spring 2023
PRINCIPLES OF ANIMAL NUTRITION
Monday – Thursday, Period 2: 8:30 – 9:20 AM
Place: TURL005 ([MAP](#))

Instructor:

Dr. Antonio Faciola – Associate Professor & Graduate Program Director

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Office phone number: 352-273-1268

Office location: 2250 Shealy Drive, Room 106

Teaching Assistants (TAs):

It is part of our TAs responsibilities to help you understand the concepts, revise the material, and do well in class (free of any charge).

Hannah Postlewait: hannahpostlewait@ufl.edu

Lana Katz: lane.katz@ufl.edu

Sydney Castillo: scastillo@ufl.edu

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Szu-Wei Ma (Daniel): szuweima@ufl.edu

TA office hours:

Tuesdays: 2:00 – 3:00 PM and Wednesdays: 2:30 to 3:30 PM, Place: Dairy Science building (499), room 204 G (small conference room).

Instructor's office hours: Scheduled by e-mail. **E-mail policy:** Polite and professional e-mails are expected. You may refer to me as Dr. Faciola or Professor Faciola. E-mails are typically answered within two weekdays; however, during hectic times such as the beginning and end of the semester and around exams, it may take me longer to get back to you due to greater volume of e-mails. If you e-mail me on a Friday afternoon, you may not hear back from me until Monday or Tuesday.

Tutoring:

We do not have an official or an endorsed tutor, but you are free to hire one if you wish.

Catalog description:

Credits: 4; Prerequisites: CHM 2045 and CHM 2045L, or equivalent. The nutrients required by animals, their functions, interrelationships and the processes of their utilization; feedstuff composition and their use in diet and ration formulation.

General scope:

This course is taught as an introduction to animal nutrition with emphasis placed on both non-ruminant and ruminant species.

Learning objectives:

Upon completing this course, undergraduate students should be able to:

1. Discuss historical perspective and define the major terminologies used in animal nutrition.
2. Compare and contrast the functional anatomy of the gastrointestinal systems of ruminant and non-ruminant species.
3. Understand various enzymatic and metabolic processes involved in nutrient digestion and metabolism.
4. Discuss various methods used to determine the chemical composition and biological value of feed ingredients.
5. Understand how animal diets are formulated to meet requirements for maintenance and production.
6. Discuss processing and storage of animal feeds.

Grades and grade points:

A = 90-100, B+ = 85-89.9, B = 80-84.9, C+ = 75-79.9, C = 70-74.9, D+ = 65-69.9, D = 60-64.9, E ≤ 59.9

Course exams: In-class exams (four total) 100 points each. The lowest in-class exam score will be eliminated to calculate your final grade. Final grade will be the average of the highest three exam grades. **This policy is to allow you to drop any of the in-class exams for whatever reason without any penalty to you.** Reasons for dropping an exam include: poor performance, absence, sickness, personal or family reasons, work, other academic conflicts, such as other exams, participation in club activities, or any other extra-curricular activities, etc. ***** There will be no make-up exams.** This is the reason why you are allowed to drop one exam. If you miss two exams, you can take the comprehensive final.

Exams format: Exams will be mostly short-answer questions because you can better show your knowledge and understanding compared to true/false or multiple choice questions. Short-answer questions also allow you to get partial credits! ☺ You should expect 25-30 questions per exam.

Comprehensive Final Exam: 100 points. The **Final Exam is optional**. It can be used to improve your grade by replacing the second lowest in-class exam. However, **if you decide to take it, it will count** and will automatically eliminate your second lowest in-class exam.

Example: exam 1 = 70, exam 2 = 80, exam 3 = 0, exam 4 = 90. Final Grade = $(70 + 80 + 90)/3 = 80$
Let's say, this student decides to take the final exam to improve their score and gets a Final Exam grade = 60.
Then their grade will be: $(60 + 80 + 90)/3 = 76.67$.

Therefore, if you decide to take the final (which will be comprehensive, ~55 questions) you are responsible for your grade. My personal advice is to do well throughout the semester so you don't have to worry about another final, allowing you to focusing your efforts on the other classes that do require a final exam.

***** Final grade will NOT be rounded up.**

Stay connected on social media by following #Gatorfeeds for practice questions and extra material. Also, you may send the instructors exam questions by e-mail (afaciola@ufl.edu) until the Friday morning (11 AM) prior to the exam. The best questions from students may be featured in the following exam! If you send a good question (with a correct answer) chances are that you will have a free question on the following exam! You can review your exams for **one week** after grades have been posted. After one week, exams will be archived and no

longer available for revisions.

For information on current UF policies for assigning grade points, see:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Course textbook: none required:

All information will be given through lecture, class material will be provided on Canvas during the semester. You may download these, print them, and bring them to class. If you wish to have extra material, the following book can be a good source of information: Animal Feeds, Feeding and Nutrition, and Ration Evaluation. Author: David Tisch.

Absences and make-up work:

Class attendance is not mandatory but strongly encouraged. Requirements for class attendance, assignments and other work are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

Online course evaluation process:

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open for students to complete during the last two or three weeks of the semester; students will be notified of the specific times when they are open. Summary results of these assessments are available to students at the end of the semester at <https://evaluations.ufl.edu/results>.

Academic honesty:

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity." You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

Academic honesty is expected not only during class time and TA office hours, but also at TA exam reviews and in all online platforms, including GroupMe, Facebook, Twitter, Instagram, etc.

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php>.

Software use:

All faculty, staff, and students of the university are required and expected to obey the laws and legal agreements

governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Services for students with disabilities:

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. 0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/

Campus helping resources:

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575. www.counseling.ufl.edu/cwc/

Counseling Services
Groups and Workshops
Outreach and Consultation
Self-Help Library
Wellness Coaching

- U Matter We Care, www.umatter.ufl.edu/

Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/

Student complaints: https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf

Tentative lecture schedule:

Date	Day	Schedule	Exams
9-Jan	mon	Syllabus, intro to class	
10-Jan	tue	Anatomy and physiology of the GIT	
11-Jan	wed	Anatomy and physiology of the GIT	
12-Jan	thu	Anatomy and physiology of the GIT	
17-Jan	tue	Anatomy and physiology of the GIT	
18-Jan	wed	Anatomy and physiology of the GIT	
19-Jan	thu	Anatomy and physiology of the GIT	
23-Jan	mon	Anatomy and physiology of the GIT	
24-Jan	tue	Protein nutrition	
25-Jan	wed	Protein nutrition	

26-Jan	thu	TA Exam 1 review	
30-Jan	mon	EXAM 1	EXAM 1
31-Jan	tue	Exam 1 review	
1-Feb	wed	Dog & cat nutrition	
2-Feb	thu	Rhino nutrition	
6-Feb	mon	Protein nutrition	
7-Feb	tue	Protein nutrition	
8-Feb	wed	Protein nutrition	
9-Feb	thu	Protein nutrition	
13-Feb	mon	Carbohydrate nutrition	
14-Feb	tue	Carbohydrate nutrition	
15-Feb	wed	Carbohydrate nutrition	
16-Feb	thu	Carbohydrate nutrition	
20-Feb	mon	Carbohydrate nutrition	
21-Feb	tue	Carbohydrate nutrition	
22-Feb	wed	Carbohydrate nutrition	
23-Feb	thu	TA Exam 2 review	
27-Feb	mon	EXAM 2	EXAM 2
28-Feb	tue	Exam 2 review	
1-Mar	wed	Lipid nutrition	
2-Mar	thu	Lipid nutrition	
6-Mar	mon	Lipid nutrition	
7-Mar	tue	Lipid nutrition	
8-Mar	wed	Lipid nutrition	
9-Mar	thu	Lipid nutrition	
20-Mar	mon	Feed analysis	
21-Mar	tue	Feed analysis	
22-Mar	wed	Feed analysis	
23-Mar	thu	Feed analysis	
27-Mar	mon	Feed analysis	
28-Mar	tue	Digestibility measurements	
29-Mar	wed	Digestibility measurements	
30-Mar	thu	TA Exam 3 review	
3-Apr	mon	EXAM 3	EXAM 3
4-Apr	tue	Exam 3 review	
5-Apr	wed	Digestibility measurements	
6-Apr	thu	Digestibility measurements	
10-Apr	mon	Digestibility measurements	
11-Apr	tue	Energy	
12-Apr	wed	Energy	
13-Apr	thu	Energy	
17-Apr	mon	Energy	
18-Apr	tue	Energy	
19-Apr	wed	Energy	
20-Apr	thu	TA Exam 4 review	

24-Apr	mon	EXAM 4	EXAM 4
25-Apr	tue	Exam 4 review	
26-Apr	wed	no class	
5-May	fri	FINAL EXAM (7:30 - 9:30 AM)	FINAL EXAM

Disclaimer: Information in the syllabus is subject to changes as the instructor sees fit, or as required by UF, IFAS, CALS, or the Department, provided that reasonable notice is given to the students.

Tentative TA office hours schedule:

Date	Day	Time	TA
17-Jan	tue	2 pm	
18-Jan	wed	2:30 pm	
24-Jan	tue	2 pm	
25-Jan	wed	2:30 pm	
31-Jan	tue	2 pm	
1-Feb	wed	2:30 pm	
7-Feb	tue	2 pm	
8-Feb	wed	2:30 pm	
14-Feb	tue	2 pm	
15-Feb	wed	2:30 pm	
21-Feb	tue	2 pm	
22-Feb	wed	2:30 pm	
28-Feb	tue	2 pm	
1-Mar	wed	2:30 pm	
7-Mar	tue	2 pm	
8-Mar	wed	2:30 pm	
21-Mar	tue	2 pm	
22-Mar	wed	2:30 pm	
28-Mar	tue	2 pm	
29-Mar	wed	2:30 pm	
4-Apr	tue	2 pm	
5-Apr	wed	2:30 pm	
11-Apr	tue	2 pm	
12-Apr	wed	2:30 pm	
18-Apr	tue	2 pm	
19-Apr	wed	2:30 pm	