

ANS 3440 7H74 (10238) – Summer 2020
PRINCIPLES OF ANIMAL NUTRITION
Monday – Thursday, Period 2: 9:30 – 10:45 AM
Zoom link: <https://ufl.zoom.us/j/95533661580>

Instructors:

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Teaching Assistants:

Graduate:

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TA office hours:

- Tuesday, Wednesday, and Thursday: 8:30-9:30 AM
- Zoom Link: <https://ufl.zoom.us/j/96415844165>

Instructor's office hours: Scheduled by e-mail.

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.

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.

***** 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.

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 and jvinyard@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."

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:

Residential Course: https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf

Tentative lecture schedule:

| Date | Day | Schedule | Exams |
|------|-----|-----------------------------------|---------------|
| 5/11 | Mon | Syllabus, intro to class | |
| 5/12 | Tue | Anatomy and physiology of the GIT | |
| 5/13 | Wed | Anatomy and physiology of the GIT | |
| 5/14 | Thu | Anatomy and physiology of the GIT | |
| 5/18 | Mon | Protein nutrition | |
| 5/19 | Tue | Protein nutrition | |
| 5/20 | Wed | Protein nutrition | |
| 5/21 | Thu | Protein nutrition | |
| 5/25 | Mon | Memorial Day | |
| 5/26 | Tue | EXAM 1 | EXAM 1 |
| 5/27 | Wed | Exam 1 review | |
| 5/28 | Thu | Carbohydrate nutrition | |
| 6/1 | Mon | Carbohydrate nutrition | |

| | | | |
|------|-----|----------------------------|-------------------|
| 6/2 | Tue | Carbohydrate nutrition | |
| 6/3 | Wed | Carbohydrate nutrition | |
| 6/4 | Thu | Lipid nutrition | |
| 6/8 | Mon | Lipid nutrition | |
| 6/9 | Tue | Lipid nutrition | |
| 6/10 | Wed | Lipid nutrition | |
| 6/11 | Thu | Feed analysis | |
| 6/15 | Mon | Feed analysis | |
| 6/16 | Tue | Feed analysis | |
| 6/17 | Wed | EXAM 2 | EXAM 2 |
| 6/18 | Thu | Exam 2 review | |
| 6/22 | Mon | Summer Break | |
| 6/23 | Tue | Summer Break | |
| 6/24 | Wed | Summer Break | |
| 6/25 | Thu | Summer Break | |
| 6/29 | Mon | Summer Break | |
| 6/30 | Tue | Summer Break | |
| 7/1 | Wed | Summer Break | |
| 7/2 | Thu | Summer Break | |
| 7/6 | Mon | Digestibility measurements | |
| 7/7 | Tue | Digestibility measurements | |
| 7/8 | Wed | Digestibility measurements | |
| 7/9 | Thu | Digestibility measurements | |
| 7/13 | Mon | Digestibility measurements | |
| 7/14 | Tue | Energy | |
| 7/15 | Wed | Energy | |
| 7/16 | Thu | Energy | |
| 7/20 | Mon | EXAM 3 | EXAM 3 |
| 7/21 | Tue | Exam 3 review | |
| 7/22 | Wed | Energy | |
| 7/23 | Thu | Energy | |
| 7/27 | Mon | Vitamins | |
| 7/28 | Tue | Vitamins | |
| 7/29 | Wed | Vitamins | |
| 7/30 | Thu | Vitamins | |
| 8/3 | Mon | Vitamins | |
| 8/4 | Tue | Minerals | |
| 8/5 | Wed | Minerals | |
| 8/6 | Thu | Minerals | |
| 8/10 | Mon | EXAM 4 | EXAM 4 |
| 8/11 | Tue | Exam 4 review | |
| 8/12 | Wed | No class | |
| TBD | | FINAL EXAM | 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:

Zoom Link: <https://ufl.zoom.us/j/96415844165>

| Date | Day | Time | TA |
|------|-----|--------------|-----|
| 5/12 | Tue | 8:30-9:30AM | TBA |
| 5/13 | Wed | 8:30-9:30AM | TBA |
| 5/14 | Thu | 8:30-9:30AM | TBA |
| 5/12 | Tue | 8:30-9:30AM | TBA |
| 5/13 | Wed | 8:30-9:30AM | TBA |
| 5/14 | Thu | 8:30-9:30AM | TBA |
| 5/19 | Tue | 8:30-9:30AM | TBA |
| 5/20 | Wed | 8:30-9:30AM | TBA |
| 5/21 | Thu | 8:30-9:30AM | TBA |
| 5/26 | Tue | 8:30-9:30AM | TBA |
| 5/27 | Wed | 8:30-9:30AM | TBA |
| 5/28 | Thu | 8:30-9:30AM | TBA |
| 6/2 | Tue | 8:30-9:30AM | TBA |
| 6/3 | Wed | 8:30-9:30AM | TBA |
| 6/4 | Thu | 8:30-9:30AM | TBA |
| 6/9 | Tue | 8:30-9:30AM | TBA |
| 6/10 | Wed | 8:30-9:30AM | TBA |
| 6/11 | Thu | 8:30-9:30AM | TBA |
| 6/16 | Tue | 8:30-9:30AM | TBA |
| 6/17 | Wed | 8:30-9:30AM | TBA |
| 6/18 | Thu | 8:30-9:30AM | TBA |
| 6/23 | Tue | | |
| 6/24 | Wed | | |
| 6/25 | Thu | | |
| 6/30 | Tue | Summer Break | |
| 7/1 | Wed | | |
| 7/2 | Thu | | |
| 7/7 | Tue | 8:30-9:30AM | TBA |
| 7/8 | Wed | 8:30-9:30AM | TBA |
| 7/9 | Thu | 8:30-9:30AM | TBA |
| 7/14 | Tue | 8:30-9:30AM | TBA |
| 7/15 | Wed | 8:30-9:30AM | TBA |
| 7/16 | Thu | 8:30-9:30AM | TBA |
| 7/21 | Tue | 8:30-9:30AM | TBA |
| 7/22 | Wed | 8:30-9:30AM | TBA |
| 7/23 | Thu | 8:30-9:30AM | TBA |
| 7/28 | Tue | 8:30-9:30AM | TBA |
| 7/29 | Wed | 8:30-9:30AM | TBA |
| 7/30 | Thu | 8:30-9:30AM | TBA |
| 8/4 | Tue | 8:30-9:30AM | TBA |
| 8/5 | Wed | 8:30-9:30AM | TBA |
| 8/6 | Thu | 8:30-9:30AM | TBA |
| 8/11 | Tue | 8:30-9:30AM | TBA |
| 8/12 | Wed | 8:30-9:30AM | TBA |