



ANS3405 Equine Nutrition and Feeding Management

Fall 2025

Course Format: In-person, Credits: 2

Location: ANS Rm 156

Meeting Time: Tues & Thurs 11:45am-12:35pm

Instructor

Dr. Lori K. Warren

Office: Animal Sciences building, Suite 210, Office 210G

Office phone: 352-392-1957

Email: LKWarren@ufl.edu (*email or CANVAS messaging are the preferred ways to reach me)

Office hours: Tues and Thurs 9:30-11:00am or by appointment (in-person or Zoom options available)

Course Description

The influence of growth, reproduction, and work on the nutrient requirements of horses and the application of that information to the planning of life cycle feeding programs.

Course Learning Objectives

1. Differentiate the digestive anatomy and digestive processes unique to equids.
2. Evaluate and select appropriate feeds for horses.
3. Design effective diets and feeding programs to meet the horse's nutritional and psychological needs.
4. Apply basic math (e.g., percentages, ratios, unit conversions, algebra) to formulate equine rations.
5. Analyze feeding-related problems and develop practical solutions.

Course Overview and Purpose

ANS 3405 is an applied nutrition course focusing on feeding programs for all types and classes of horses. Topics will include digestion & absorption, selection of feeds, nutrient requirements, diet evaluation and formulation, feeding management, and treatment and prevention of feeding-related disorders. Classroom activities and assignments will integrate the science of nutrition with practical horse management, enabling you to create feeding programs that promote equine health and well-being.

Course Prerequisites

ANS3440 Principles of Animal Nutrition, a course in Algebra, and one semester of General Chemistry.

Textbooks and Learning Materials

Textbooks: No textbooks are required for this course; however, other learning materials will be provided on CANVAS. Refer to the section "Course Resources" in this syllabus for further information.

Material and Supply Fees

\$0

Course Structure & Format

This course will have a flipped format structure, where you will watch lecture videos and complete reading tasks outside of the classroom and complete activities and assignments during scheduled class time.

Class Meetings (*in-person*)

We will meet on Tues and Thurs from 11:45am – 12:35pm in ANS 156. Class time will be used for whole-class and small group discussions and activities, as well as completion of individual work. Most classes will involve graded activities, so it's important to attend!

Class meetings are designed to enhance your understanding of course content, assist you in completing assignments, and give you the opportunity to interact with me and your peers. To get the most out of our time together in class, it is important to complete the required preparation (ie, watch the required lecture videos and complete any reading ahead of time!)

Class meeting topics align with module topics and are outlined in the “Weekly Course Schedule” section of this syllabus.

Class Preparation (*your own time*)

To prepare for each class, you will be expected to watch lecture videos on your own time BEFORE each class session. In some cases, preparation may also involve reading an article or reflecting on a question that will be discussed in class.

Lecture videos and other resource materials are available in the Modules section of CANVAS. Each topic module has one or more smaller video segments (10 to 30 minutes in length). You can expect to spend approximately 1-2 hours per week watching lectures videos.

A schedule of class activities (ie, what videos you need to watch to prepare for class, topics & activities taking place in each class, take-home assignments due, etc) can be found in several locations on CANVAS:

1. Course homepage – what's happening this week? (viewable on your laptop or tablet, but not your phone);
2. “Schedule 2025” link – outlines all activities by day
3. Within each topic module page

Course Requirements

Engage in Learning

Applied nutrition is a balance of science and mathematics. This course will require simple & algebraic calculations, reading, group & individual work, and effort outside of class. You will be required to apply what you've learned to solve practical feeding problems. To develop independent thinking that will serve you beyond your time in this course, you will be asked to research topics not covered in lecture and use your nutritional foundation to determine how the diet should be changed to improve management practices. You will need to put in consistent effort throughout the semester, as each topic and skill you learn will build upon previous ones. To get the most out of this course, prepare for and attend class meetings, engage in discussions with your peers, ask questions, take advantage of

supplementary materials provided on CANVAS, and get help before you get too far behind! Learning is not a spectator sport!

Computer or Tablet

All UF students are required to have a working computer (laptop or tablet). You will be using your computer frequently during class and should plan on bringing it to class with you. A laptop or tablet will usually work better than your phone for in-class activities.

Calculator

A standard calculator is needed to perform simple and algebraic calculations used in nutrition. Use of the calculator function on your phone will NOT be allowed during exams.

Document Scanner

All graded activities and assignments must be submitted electronically in CANVAS. If you do not have a tablet with stylus or a printer-scanner device, you can use a document scanning app (eg, CamScanner) to convert hand-written homework for electronic submission. See CANVAS > *Course Tools* for video tutorials on document scanning and upload to CANVAS.

Class Demeanor/Expectations

- Come prepared! Watch the required lecture videos or complete the other assigned activities ahead of each class meeting. Be ready to discuss the topic or share your solutions to a problem. Class is a learning opportunity. Don't be afraid to participate!
- Avoid electronic distractions. Silence your phone during class. Use your laptop or tablet for completing in-class activities, not to check social media or surf the internet.
- Be respectful of other students' background, knowledge, and opinions. If you have more horse experience than your fellow students, be a helper not a hater.
- Please arrive to class on time as a courtesy to me and others.
- Unauthorized recording and sharing of recorded materials used in this class is prohibited. Refer to the University's policy on Recording at <https://syllabus.ufl.edu/syllabus-policy/uf-syllabus-policy-links/>.

Course Resources

This course has no required textbook. Instead, I have gathered articles (from both research and trade journals), videos and websites to expand on the topics covered lectures. In some cases, I will instruct you to review these materials prior to coming to class; in other cases, they will serve as supplementary material. I have also listed some suggested textbooks below, which you may find useful for assignments, or if you need additional background information, or simply want to learn more about any of the topics covered during the semester. I will also post lecture notes, study guides, and practice problems that can be handy study aids.

Reference Materials

Below are some books and online resources that are suggested as reference material for this course:

- Nutrient Requirements of Horses, 6th Rev. Edition (2007) | National Research Council | ISBN: 978-0-309-10212-4. Access on CANVAS, or through the UF Library, or purchase from the National Academies Press.
- Equine Applied & Clinical Nutrition (2013) | R.J. Geor, P.A. Harris, M Coenen (Eds.) | ISBN: 978-0-0720-3422-0.
- The Horse (magazine) | <https://thehorse.com/> | A trade journal with reliable health and nutrition info. You can access articles for free after signing up.

CANVAS

All course materials and communications will be hosted on CANVAS, accessible at:

<https://elearning.ufl.edu/>

Check the “Notifications” settings for your CANVAS account. Set Announcements to ‘notify me right away’ to receive timely announcements about the course.

CANVAS will contain:

- ✓ Syllabus
- ✓ Announcements
- ✓ Course schedule
- ✓ Lecture Videos and Notes
- ✓ Articles and web links
- ✓ Assignments and In-Class Activities
- ✓ Your Grades
- ✓ Course Tools
- ✓ Messaging (to contact Dr. Warren & TA)

Course Notes

Lecture Notes are posted as PDF files on CANVAS within each Module. Notes are styled as fill-in-the-blank. They are designed to assist you with notetaking while watching lecture videos and contain many of the diagrams presented in lecture videos.

You can print out notes and hand-write information or annotate electronically within Adobe Reader and save a copy to your computer.

NOTE: Anything said in lecture videos or in class is fair game for questions that might appear on graded activities & exams.

Course Assessments

Your grade for this course will be determined by your performance on homework assignments, in-class activities, and exams (also see the “Grading Policy” in this syllabus).

Assignments

You will have 5 major homework assignments (50 points each). Most are case studies that depict practical feeding scenarios, and you will be tasked with identifying and evaluating the problems and developing solutions. Background information will not always be provided in lecture videos – you may have to research some areas on your own to complete the assignment. Time in class may be designated

for working on portions of these assignments, but plan to complete them on your own time. Assignments with instructions will be posted to CANVAS at least 1 week before they are due. You can work with other students, but each person will be required to submit their own assignment, using their own words (evidence of copying will result in a zero grade). All assignments will be submitted electronically in CANVAS. Uploads must be PDF or MSWord documents (photos will not be accepted). See CANVAS > *Course Tools* for video tutorials on document scanning and upload.

In-Class Activities

Several activities completed in class will be graded (1 – 10 points each). Therefore, it's a good idea to attend all class meetings! Graded activities may include short quizzes, response to reflective questions, scavenger hunts, online information searches, and math problems and will involve both individual and group work. These items will be submitted on the same day for grading. Similar to homework assignments completed outside of class, the in-class activities may need to be scanned and uploaded to CANVAS for submission.

Exams

Three (3) exams (100 points each), each covering about one-third of the total course material. The final exam (Exam #3) is not cumulative, but new material builds upon previous information throughout the semester. Exam format will consist of true/false, multiple choice, short answer, essay questions, and math problems. Exams will be closed-book and will be administered in-person during scheduled class time.

Extra Credit

Take advantage of bonus points available on homework assignments, in-class activities, and exams. No other extra credit opportunities will be offered.

Attendance, Makeup, and Late Work

Attendance

Regular attendance is expected, and active participation is necessary for successful completion of this course. If you know you will be absent from class, please notify the instructor at least two weeks in advance of the expected absence. If you become ill or have an unforeseen emergency, notify the instructor as soon as you can. Documentation of approved but unexpected absences must be presented within 1 week of the absence to be eligible for make-up exams and assignments. Requirements for class attendance and makeup exams, assignments and other work policies are consistent with UF policies that can be found at: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>.

Makeup Work

It is your responsibility to contact Dr. Warren to develop a plan to make up any work you miss. Makeup work for approved class absences will be accepted with no penalty if completed by the agreed-upon extended deadline.

Late Assignments

It is expected that ALL take-home assignments will be submitted on time. Because "life happens," there is a 48-hour grace period after the due date where take-home assignments can still be uploaded without penalty (shown as the "available until" date in CANVAS). Assignments will be assessed a -20% penalty

each additional day AFTER the grace period for up to 3 days; thereafter (= 6 days after the original due date), the late assignment will NOT be accepted. For example, an assignment due Sept 10 will be accepted without penalty through Sept 12; if turned in Sept 13-15, a -20% penalty will be applied each day; the assignment would not be accepted and a zero grade assigned beginning Sept 16.

If you contact Dr. Warren BEFORE the due date of the assignment and provide her with a revised due date that falls within 1 week of the original due date, you will likely avoid a late penalty altogether.

NOTE: any assignment submitted after the original due date may not receive the same level of feedback from the instructor, so it is to your benefit to turn them in on time!

Grading Policy

- Course grading is consistent with [UF grading policies](#).
- Note that plus/minus letter grades will not be assigned in this course.
- Scores on individual assignments and exams, as well as a running tally of your cumulative course grade will be available on CANVAS > *Grades*.
- You have 1 week after the return of any graded item to resolve questions or disputes. After that, the grade is finalized.

Course Grading Structure

- Assignments and In-Class Activities = 40% of final grade
- Exams = 60% of final grade

Grading Scale

Grade	Percentage
A	90 – 100%
B	80 – 89.9%
C	70 – 79.9%
D	60 – 69.9%
E	Less than 60%

Course Schedule

See the CANVAS homepage, CANVAS > *Schedule 2025*, or CANVAS > *Modules* for the most up-to-date information on the course schedule. These locations also contain details on what lecture videos and other activities you need to complete to prepare for each in-class session (ie, complete BEFORE attending each class).

Date	In-Class Topic	Preparation	Homework Due
Aug 21	Course Introduction	Review Syllabus	
Aug 26	Anatomy of Equine Gastrointestinal Tract	Modules 1 and 2	
Aug 28	Digestion and Absorption	Module 2	
Sept 2	Gastrointestinal Disorders	Module 3	Introduce Yourself Survey
Sept 4	Nutrient Requirements and the NRC	Module 4	

Date	In-Class Topic	Preparation	Homework Due
Sept 9	Ration Evaluation	Module 5	Basic Nutrition Calculations
Sept 11	Maintenance Requirements	Module 6	
Sept 16	Feed Selection	Module 7	
Sept 18	Discussion – Case Study #1		Case Study #1
Sept 23	EXAM #1		
Sept 25	Feed Selection	Module 7	
Sept 30	Feed Selection	Module 7	
Oct 2	Feed Selection	Module 7	
Oct 7	Feeding Working/Performance Horses	Module 8	
Oct 9	Feeding Working/Performance Horses	Module 8	
Oct 14	Ration Formulation	Module 9	
Oct 16	Discussion – Case Study #2		Case Study #2
Oct 21	Feeding Broodmares and Stallions	Module 10	
Oct 23	Feeding Broodmares and Stallions	Module 10	
Oct 28	Discussion – Case Study #3		Case Study #3
Oct 30	Feeding Growing Horses	Module 11	
Nov 4	EXAM #2		
Nov 6	Pasture as a Feed Source	Module 12	
Nov 11	HOLIDAY – Veteran’s Day		
Nov 13	Discussion – Case Study #4		Case Study #4
Nov 18	Clinical Nutrition	Module 13	
Nov 20	Clinical Nutrition	Module 13	
Nov 25	HOLIDAY – Thanksgiving		
Nov 27	HOLIDAY – Thanksgiving		
Dec 2	Clinical Nutrition	Module 13	
Dec 12	EXAM #3 (7:30-9:30am)		

Academic Policies and Resources

Academic policies for this course are consistent with university policies. See

<https://syllabus.ufl.edu/syllabus-policy/uf-syllabus-policy-links/>

Campus Health and Wellness Resources

Visit <https://one.ufl.edu/whole-gator/topics> for resources that are designed to help you thrive physically, mentally, and emotionally at UF.

Please contact [UMatterWeCare](#) for additional and immediate support.

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.

Technical Support

UF Computing Help Desk & Ticket Number: All technical issues require a UF Helpdesk Ticket Number. The UF Helpdesk is available 24 hours a day, 7 days a week. <https://helpdesk.ufl.edu/> | 352-392-4357