Equine Veterinary Nutrition
AGR 4340.001
Department of Agriculture
Stephen F. Austin State University
Fall 2023

Instructor: Jim Ward D.V.M.
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Office Hours:
Class Meeting Time & Place: 1st lecture Monday August 21, 2023, 5:00 - 7:30 PM. In room 117, followed by lectures each Monday for Fall semester 2023.

Course Description: An Equine Nutrition course that addresses health and nutrition relationships.

Text: list textbooks suggested:
   Equine Nutrition and Feeding – David Frape
   Horse Nutrition – Zoe Davis
   Equine Applied and Clinical Nutrition – Raymond Geor
   Nutritional Requirements of Horses – National Research Council

Program Learner Outcomes:

1. Technical Thinking - The student will demonstrate competence of technical subject matter in equine nutrition.
2. Communication - The student will demonstrate effective oral and written communication skills.
3. Leadership - The student will exhibit leadership and other interpersonal skills needed for career placement and advancement.
4. Critical Thinking - The student will exhibit problem solving skills based on quantitative and analytical reasoning.
5. Critical Skills - The student will demonstrate knowledge of equine production facilities.

Grading Policy:
Grades will be based on a point system as stated below:
Exam A – 200 points
Exam B – 200 points
Exam C – 200 points
Quizzes - 100 Points
Report – 100 Points
Final - 200 points
Letter Grade  A …900 points
Letter Grade  B …800 – 899 points
Letter Grade  C …700 - 799 points
Letter Grade  D …600 - 699 points
Letter Grade  F …less than 600

Course Requirements
The course will cover anatomy, physiology, nutrients, ingredients, feed manufacture, nutrient requirements of horse classes, feeding management, physical evaluation, assessing a horse’s needs with focus on disease prevention and nutritional remedies. Computer ration balancing will be demonstrated. The goal of the course is to teach how to assess the nutritional needs of a horse and how to plan and manage a feeding program that will result in a healthy horse that obtains the stated goals.

Extra Credit – Cargill Online Equine Nutrition Course
1. A student will receive 3 points per lesson with a maximum of 50 points extra credit for enrolling in the Cargill Online Equine Nutrition Course that is on Canvas and viewing the lessons and taking each lesson quiz with a minimum score of 80. Each lesson is 30-45 minutes long.
2. Students that complete the course, participate in a wet lab and take all quizzes and exams will earn 100 points, will be certified in Equine Nutrition, receive a certificate and will be offered an opportunity to purchase ($75) a Nutrition Kit (Hay probe, scales, weight tapes, 10 sample bags, EquiCalc Ration Balancing software). There is no charge for the course. Attached is the course brochure and a lesson menu with the course links.

Attendance: SFA AG DEPARTMENT ATTENDANCE AND PUNCTUALITY POLICY (referencing university policy, 6.7)
Attendance and punctuality are core skills to have as an engaged student and for a successful career. Therefore, all agriculture faculty have adopted the following policy for unexcused absences.

LECTURE
• Miss two lectures, no letter grade reduction.
• Miss more than two lectures, drop 10% for every unexcused absence.

LAB
• Miss one lab period, no letter grade reduction.
• Miss more than one lab, drop 10% for every unexcused absence.

Excuses can either be provided as hard copy or electronically. Documentation for excused absences is due within seven days of the absence, and no documentation from previously will be accepted past the Friday before finals week at 5 PM.

For reference, below are examples of excused absences.
1. Approved university activities (require documentation from sponsor and advanced notice, see below)
2. Death or major illness of an immediate family member (requires documentation and notice as soon as possible)
3. Major illness of yourself (requires a doctor’s note).

If you miss class for any other reason and feel your absence should be excused, you must provide me with a typed memo explaining why the absence should be excused and provide appropriate documentation. This memo must be provided within one week of the absence. All other absences are considered unexcused.

_Students are expected to be on time for classes. Students that are regularly tardy are not eligible for bonus points._

**Academic Integrity (A-9.1):**
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as, abiding by university policy on penalties for cheating and plagiarism.

**Student Academic Dishonesty Policy (4.1)**
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at _http://www.sfasu.edu/policies/academic_integrity.asp_

**Academic Accommodation for Students with Disabilities Policy (6.1)**
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to _http://www.sfasu.edu/disabilityservices/

**Course Grades Policy (5.5)**
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be
counted as a repeated course for the purpose of computing the grade point average. Please read the complete policy at [http://www.sfasu.edu/policies/5.5_course-grades.pdf](http://www.sfasu.edu/policies/5.5_course-grades.pdf)

**Acceptable Student Behavior**
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy 10.4). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed. Please read the complete policy at [http://www.sfasu.edu/policies/student-code-of-conduct_10.4.pdf](http://www.sfasu.edu/policies/student-code-of-conduct_10.4.pdf)

**Responsible Use of Technology**
It is expected that all students will only use cell phones, laptop computers, MP3 players and other technology outside of class time or when appropriate in class. Answering a cell phone, texting, listening to music or using a laptop computer for matters unrelated to the course may be grounds for dismissal from class and/or other penalties.

**Covid 19 Health measures**
Each student will be responsible for following SFA Guidelines.

**Monitoring** – Students that feel ill should take their temperature at start of class and report a temperature over 100 degrees. Testing is available as shown below.

SFA will continue to [monitor COVID-19 cases reported on campus](http://www.sfasu.edu/policies/student-code-of-conduct_10.4.pdf) and make necessary changes as the year progresses.

Please direct any additional questions to Director of Environmental Health, Safety and Risk Management Jeremy Higgins by [email](mailto:email) or at ext. 4532.

We look forward to returning to pre-pandemic operations, and it is important that all Lumberjacks continue to do their part in keeping SFA healthy and safe.
Equine Veterinary Nutrition
AGR 4340.001 Schedule (Tentative)
Department of Agriculture
Stephen F. Austin State University
Fall 2023

August 21
Syllabus
Schedule
Introduction
Evaluation physically
Anatomy & physiology

August 28
Quiz 1
Requirements – Balanced Ration Formula
Energy
Fat
Carbohydrates
NSC, Starch & Sugar

September 4
Quiz 2
Water & Electrolytes
Protein & Amino Acids
Minerals & Vitamins
Review

September 11
Exam A
Feeding Management
   Forages
   Feeds

September 18
Quiz 3
Feedstuffs –
   Forages & Forage Analysis
   Feeds, Balancers, Supplements
September 25 – Ward Animal Hospital, Nutrition in a veterinary practice

Oct 2
Quiz 4
Feed Formulation
Feed tags, date codes
Nutrient Requirements
Nutrient Calorie Relationships
Introduction to “NutriCalc”

October 9
Quiz 5
Feeding Management Forages
Feeding Management Feeds & Concentrates
Exploring NutriCalc – Discussion on Using it
Review

October 16
Exam B
Feeding Performance Horses
Reproduction Nutrition

October 23
Quiz 6
Feeding Growing Horses
Developmental Orthopedic Disease
Nutrient Requirements & Balancing a Ration

October 30
Field Trip to Horse Center
Quiz 7 @ Horse Center
Physical Evaluation of Horses
Hay Sampling & Analysis

November 6
Quiz 8
Colic
Gastric Ulcers
Review
November 13
   Exam C
   Metabolic Diseases
   Laminitis
November 20 – Thanksgiving
November 27
   Quiz 8
   Demonstration of Ration Balancing
   Problem Solving
November 14
   Quiz 9
   Problem Solving
   Reports
November 21 - Thanksgiving
November 28 –
   Quiz 10
   Problem Solving
   Reports
   Review
December 4 –
   Reports
   Final Exam