

EQSCI 110 Course Outline as of Fall 2024

CATALOG INFORMATION

Dept and Nbr: EQSCI 110

Title: EQUINE NUTRITION

Full Title: Equine Nutrition

Last Reviewed: 2/7/2022

| Units | | Course Hours per Week | | Nbr of Weeks | Course Hours Total | |
|---------|------|-----------------------|------|--------------|--------------------|-------|
| Maximum | 1.00 | Lecture Scheduled | 1.00 | 17.5 | Lecture Scheduled | 17.50 |
| Minimum | 1.00 | Lab Scheduled | 0 | 6 | Lab Scheduled | 0 |
| | | Contact DHR | 0 | | Contact DHR | 0 |
| | | Contact Total | 1.00 | | Contact Total | 17.50 |
| | | Non-contact DHR | 0 | | Non-contact DHR | 0 |

Total Out of Class Hours: 35.00

Total Student Learning Hours: 52.50

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

Catalog Description:
In this course, students will learn how to develop a horse feeding program with regard to horse type, level of activity, available feedstuffs, cost factors and basic nutritional requirements. This course will cover feeding for maintenance, growth and reproduction as well as feeding methods.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:
Description: In this course, students will learn how to develop a horse feeding program with regard to horse type, level of activity, available feedstuffs, cost factors and basic nutritional requirements. This course will cover feeding for maintenance, growth and reproduction as well as feeding methods. (Grade or P/NP)
Prerequisites/Corequisites:
Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit:

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

| | | | |
|----------------------|----------------------|------------|-----------|
| AS Degree: | Area | Effective: | Inactive: |
| CSU GE: | Transfer Area | Effective: | Inactive: |
| IGETC: | Transfer Area | Effective: | Inactive: |
| CSU Transfer: | | Effective: | Inactive: |
| UC Transfer: | | Effective: | Inactive: |

CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

1. Evaluate equine feeds and supplements by utilizing feed ingredients and guaranteed analysis.
2. Develop a feeding plan for maintenance, growth, and reproduction.

Objectives:

At the conclusion of this course, the student should be able to:

1. Explain the use of common feed ingredients.
2. Evaluate commercially available feeds and hays.
3. Determine protein and energy required for different classes of horses.
4. Identify common metabolic or nutritionally related diseases of the horses.
5. Determine how to feed horses based on body condition score, level of exercise or other health considerations.
6. Explain the anatomy and physiology of the equine digestive tract.
7. Apply understanding of the equine digestive anatomy to explain common issues associated with equine nutrition.

Topics and Scope:

I. Introduction

- A. Trends in Equine Feed
- B. Classes of horses
- C. Nutrient Requirements
- D. Feeding Myths
- E. Types of Feed

II. Equine Digestion

- A. Anatomy
- B. Disorders of the digestive tract
- C. Nutrient Digestion

III. Feedstuffs

- A. Roughages
- B. Concentrates
- C. Supplements

IV. Nutrition Management

- A. Feed Storage
- B. Feed Preparation
- C. Feed and supplements selection process
 - 1. Feed tags
 - 2. Nutritional analyses
- D. Economics
- E. Body condition score
- F. Nutrition related diseases and disorders
- G. Nutrition by class
 - 1. Maintenance
 - 2. Stallion
 - 3. Broodmare
 - 4. Exercising horse
 - 5. Foals
 - 6. Geriatric horses
- H. Ration formulation

Assignment:

1. Weekly reading (15-20 pages).
2. Worksheets (10-15).
3. One class project such as developing or evaluating rations for horses of different ages and classes.
4. Quizzes (2-3).
5. Final exam.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing
0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Worksheets

Problem solving
25 - 35%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

| | |
|--|----------------------------------|
| Class project | Skill Demonstrations 20 - 40% |
| Exams: All forms of formal testing, other than skill performance exams. | |
| Quizzes and final exam | Exams 30 - 50% |
| Other: Includes any assessment tools that do not logically fit into the above categories. | |
| Participation | Other Category 5 - 15% |

Representative Textbooks and Materials:

Nutrient Requirements of Horses. 6th ed. National Research Council, National Academies Press. 2007 (classic)

Equine Nutrition and Feeding. 4th ed. Frape, David. Wiley-Blackwell. 2010 (classic)

Instructor prepared materials