

**EQSCI 51 Course Outline as of Summer 2017****CATALOG INFORMATION**

Dept and Nbr: EQSCI 51 Title: EQUINE NUTRITION

Full Title: Equine Nutrition

Last Reviewed: 3/9/2015

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: AG 60.1

**Catalog Description:**

This course will enable a student to develop a horse feeding program with regard to horse type, level of activity, available feedstuffs, cost factors and basic nutritional requirements. 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: This course will enable a student to develop a horse feeding program with regard to horse type, level of activity, available feedstuffs, cost factors and basic nutritional requirements. 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: CSU;  
Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>			Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>			Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>			Effective:	Inactive:
<b>CSU Transfer:</b>	Transferable	Effective:	Fall 2000	Inactive:	Fall 2020
<b>UC Transfer:</b>		Effective:		Inactive:	

**CID:**

**Certificate/Major Applicable:**

Both Certificate and Major Applicable

## **COURSE CONTENT**

### **Student Learning Outcomes:**

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

1. Develop a horse feeding program with consideration given to horse types, level of activity, available feedstuffs, cost factors and basic nutritional requirements.
2. Develop a feeding plan for maintenance, growth and reproduction.
3. Explain the factors and relationships which may affect the digestive process.

### **Objectives:**

Upon completion of this course, students will be able to:

1. Identify various primary and by-product feeds.
2. Analyze and comprehend various procurement of feed stuffs.
3. Formulate rations for various horse activities.
4. Demonstrate differences in equine digestive systems.
5. Apply changing nutritional requirements based upon animal physiological development.
6. Collect and calculate data used in ration formulation.

### **Topics and Scope:**

- A. Introduction
  1. Digestion
  2. Common Feedstuffs
  3. Typical Problems
- B. Critical Nutrients
  1. Protein
  2. Minerals
  3. Vitamins
  4. Others
- C. Influences of Nutrient Requirements
  1. Maintenance
  2. Reproduction

- 3. Growth
- 4. Exercise
- D. Feedstuffs for Horses
  - 1. Forage
  - 2. Energy feeds (grains)
  - 3. By-Products
  - 4. Protein supplements
  - 5. Water
- E. Methods of Feeding
- F. Ration Formulation & Feed Additives
- G. Feed Preparation
- H. Digestive Disturbances

### Assignment:

- 1. Reading assignments will be taken from periodicals and text. Average 15 pages a week.
- 2. Worksheets, class and field work notes, and study guides will be the basis for problem solving assignments.
- 3. Field work performing ration balancing and other material taught in class.
- 4. 4 - 6 quizzes.
- 5. Final exam at end of course.

### 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.

Homework problems

Problem solving  
25 - 35%

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

Field work performing ration balancing and other material taught in class

Skill Demonstrations  
20 - 40%

**Exams:** All forms of formal testing, other than skill performance exams.

Quizzes and final exam; Multiple choice, True/false, Matching items, Completion

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:**

Industry handouts and class handouts will be utilized.  
Nutrient Requirements of Horses, National Research Council, 2008.  
Equine Nutrition and Feeding, Fourth Edition, Blackwell Massey, 2010.