

Discipline: Agriculture	Sub-discipline: Equine Science
General Course Title: Equine Nutrition	Min. Units: 1 Semester
Proposed Suffix:	
<p>Course Description: Basic principles of equine nutrition and digestion. Emphasis on developing a horse feeding program with consideration given to horse types, level of activity, available feedstuffs, and basic nutritional requirements. Feeding for maintenance, growth, performance and reproduction as well as feeding methods will be discussed. Includes proper selection, evaluation, and utilization of feeds.</p>	
Required Prerequisites or Co-Requisites ¹	
Advisories/Recommended Preparation ²	
<p>Course Objectives: <i>At the conclusion of this course, the student should be able to:</i></p> <ul style="list-style-type: none"> • Identify parts of the equine gastrointestinal system and describe the function of each. • Assess the function and importance of each nutrient as it pertains to equine nutrition. • Identify, describe and assess the nutritionally caused disorders in young and growing horses. • Implement a sound feed management program for horses of various ages. • Implement a sound feeding program based on the type and amount of work performed. • Identify and describe problems associated with faulty feeding programs and suggest modifications or alternative programs as solutions. 	
<p>Course Content:</p> <ol style="list-style-type: none"> 1. Equine Gastrointestinal System <ol style="list-style-type: none"> A. Parts and Functions B. Digestion 2. Critical Nutrients <ol style="list-style-type: none"> A. Identification and Definition <ol style="list-style-type: none"> 1. Protein 2. Minerals 3. Vitamins 4. Carbohydrates 5. Fats 6. Water B. Functions of Nutrient Requirements <ol style="list-style-type: none"> 1. Maintenance 2. Reproduction 3. Growth 4. Performance <p>Equine Nutrition (Content Continued)</p> <ol style="list-style-type: none"> 3. Feed Stuffs <ol style="list-style-type: none"> A. Forage --high fiber B. Energy feeds (grains) 	

¹ Prerequisite or co-requisite course need to be validated at the CCC level in accordance with Title 5 regulations; co-requisites for CCCs are the linked courses that must be taken at the same time as the primary or target course.

² Advisories or recommended preparation will not require validation but are recommendations to be considered by the student prior to enrolling.

<ul style="list-style-type: none"> C. By-Products D. Protein supplements E. Pelleted Feeds F. Ration Formulation & Feed Additives G. Methods of feed procurement H. Feed Label Analysis I. Water J. Feeding K. Methods of feeding <ul style="list-style-type: none"> 1. Feed Preparation 	
<ul style="list-style-type: none"> 4. Faulty Feeding Programs <ul style="list-style-type: none"> A. Colic/Digestive disturbances B. Laminitis C. Bronchitis D. Pulmonary emphysema E. Stall vices 	
<ul style="list-style-type: none"> 5. Nutritionally Caused Disorders in the Young and Growing Horse <ul style="list-style-type: none"> A. Phytitis B. Contracted tendons C. Angular limb deformities D. Osteochondritis (OCD) 	
<ul style="list-style-type: none"> 6. Feed Management <ul style="list-style-type: none"> A. Schedules B. Herd feeding C. Creep feeding D. Age E. Work load and type 	
<p>Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.</p>	
<p>Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers</p>	<p>Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation Laboratory Projects and Reports Laboratory Research Projects and Reports Laboratory Skill Practicum Exams</p>
<p>Typical Textbooks, Manuals, or Other Support Materials <u>Equine Nutritional Management and Nutrition</u>. Bray, Robert. R.E. Bray, 2004. <u>Feeding and Care of the Horse</u>. Lewis, Lon D. Lippincott Williams & Wilkins, 1997.</p>	
<p>Statewide Articulation: CPSLO-ASCI 346, CPP-AVS 355, CSUF-A SCI 152, UCD-ANS 126, other universities as lower division elective.</p>	
<p>FDRG Lead Signature:</p>	<p>Date:</p>
<p>Mark E. Bender, PhD CSU Stanislaus</p>	
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