

Discipline: Agriculture	Sub-discipline: Animal Science
General Course Title: <b>Equine Science</b>	Min. Units: <b>3 Semester</b>
Proposed Suffix: <b>L</b>	
<p>Course Description:  Survey of the equine industry, encompassing the evolution and role of the equine species throughout history, breed selection and development, nutrition, disease, preventative health, reproductive management, basic horsemanship, and stabling alternatives.  Laboratory required.</p>	
Required Prerequisites or Co-Requisites <sup>1</sup>	
Advisories/Recommended Preparation <sup>2</sup>	
<p>Course Objectives: <i>At the conclusion of this course, the student should be able to:</i></p> <ul style="list-style-type: none"> <li>• Explain the role of the horse in the development of civilization world-wide and the current contributions of the horse to society.</li> <li>• Identify eight common breeds of horses and assess the selection pressures involved in the development of each breed.</li> <li>• Demonstrate an understanding of conformation with respect to the horse's motion and intended use.</li> <li>• Demonstrate knowledge of common horse parasites, their role in disease processes, and their control.</li> <li>• List common infectious diseases and explain the role of preventive health and vaccination programs.</li> <li>• Explain the basic principles of digestion and describe practical nutrient requirements for various stages of production in the equine.</li> <li>• Relate form to function with regards to equine anatomy.</li> <li>• Demonstrate knowledge of practical equine reproductive management.</li> <li>• Demonstrate a basic understanding of horse behavior in different surroundings</li> <li>• Design an efficient and safe horse-handling facility.</li> <li>• Demonstrate ground safety while performing routine basic health and grooming tasks.</li> <li>• Describe career opportunities in the equine industry.</li> </ul>	
<p>Course Content:</p> <ol style="list-style-type: none"> <li>1. Evolution of the House <ol style="list-style-type: none"> <li>a. Prehistoric evolution</li> <li>b. Domestication and historic influence</li> <li>c. Development of the modern horse</li> </ol> </li> <li>2. Horse Breeds <ol style="list-style-type: none"> <li>a. Origins</li> <li>b. Selection pressures and development</li> <li>c. Current uses</li> </ol> </li> <li>3. Parasites <ol style="list-style-type: none"> <li>a. Common internal and external parasites</li> <li>b. Role of parasites in disease process</li> <li>c. Control and management of parasites</li> </ol> </li> </ol> <p><b>Equine Science (Content continued)</b></p> <ol style="list-style-type: none"> <li>4. Diseases</li> </ol>	

<sup>1</sup> 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.

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

- a. Common infectious diseases
  - b. Non-infectious diseases
  - c. Preventive health and vaccination programs
5. Nutrition and Digestion
- a. Digestion and utilization of feed
  - b. Dental health
  - c. Nutrient requirements
  - d. Feeding systems
6. Anatomy and Conformation
- a. Basic structural anatomy
  - b. Motion of the horse and gait analysis
  - c. Lameness
7. Equine Behavior
- a. Normal
  - b. Abnormal-vices
  - c. Special circumstances
8. Reproduction
- a. Mare reproductive physiology
  - b. Stallion reproductive physiology
  - c. Pregnant mare
  - d. Neonatal
9. Basic Horsemanship
- a. Grooming and hygiene
  - b. Hoof care and shoeing
  - c. Basic handling
10. Facilities and Equipment
- a. Ranch lay-out
  - b. Equipment
  - c. Stabling alternative

Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.

Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers	Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation Laboratory Reports Laboratory Research Projects and Reports Laboratory Skill Practicum Exams
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Typical Textbooks, Manuals, or Other Support Materials  
The Horse. 3<sup>rd</sup> ed., Kays, J.M., New York Publishing, ISBN 0-6680-5469-7  
Horses: A Guide to Selection, Care & Enjoyment 3<sup>rd</sup> ed  
 Evans, J. Warren, Published 2000, New York: W.H. Freeman & Company. ISBN 0-8050-1971-1.

**Statewide Articulation: formally CAN AG 26, CPSLO-ASCI 224, CPP-125/L, CSUF-A SCI 51, CSUC-ANSC 175, UCD ANS 15, other universities as lower division elective**

FDRG Lead Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Mark E. Bender, PhD CSU Stanislaus

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