

**EQSCI 25 Course Outline as of Fall 2019****CATALOG INFORMATION**

Dept and Nbr: EQSCI 25 Title: EQUINE SCIENCE

Full Title: Equine Science

Last Reviewed: 1/25/2021

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	3.00	Lab Scheduled	3.00	17.5	Lab Scheduled	52.50
		Contact DHR	0		Contact DHR	0
		Contact Total	5.00		Contact Total	87.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade Only

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

Also Listed As:

Formerly: AG 25

**Catalog Description:**

A survey of the equine industry. Selection, feeding, breeding, facilities, handling and diseases of horses will be emphasized to ensure scientifically based management decisions.

**Prerequisites/Corequisites:****Recommended Preparation:**

Eligibility for ENGL 1A or equivalent

**Limits on Enrollment:****Schedule of Classes Information:**

Description: A survey of the equine industry. Selection, feeding, breeding, facilities, handling and diseases of horses will be emphasized to ensure scientifically based management decisions.  
(Grade Only)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 1A or equivalent

Limits on Enrollment:

Transfer Credit: CSU;UC.

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

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

<b>AS Degree:</b>	<b>Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>CSU GE:</b>	<b>Transfer Area</b>	<b>Effective:</b>	<b>Inactive:</b>

<b>IGETC:</b>	<b>Transfer Area</b>	<b>Effective:</b>	<b>Inactive:</b>
---------------	----------------------	-------------------	------------------

<b>CSU Transfer:</b>	Transferable	<b>Effective:</b>	Fall 1981	<b>Inactive:</b>
----------------------	--------------	-------------------	-----------	------------------

<b>UC Transfer:</b>	Transferable	<b>Effective:</b>	Fall 1981	<b>Inactive:</b>
---------------------	--------------	-------------------	-----------	------------------

### **CID:**

CID Descriptor: AG - AS 116L Equine Science  
SRJC Equivalent Course(s): EQSCI25

### **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. Describe the main components of the equine industry, including selection, feeding, breeding, facilities, safety, handling, and diseases of horses.
2. Summarize and evaluate current scientifically based equine management decisions and practices.

### **Objectives:**

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

1. Describe common horse diseases and parasites and their control.
2. Evaluate horses by live analysis and performance information.
3. Describe horse reproduction as it pertains to sound management.
4. Identify a minimum of eight common breeds of horses and assess their differences.
5. Design horse handling facilities with cost analysis of preparation for marketing of equine.
6. Demonstrate ground safety around horses.
7. Demonstrate basic health care and grooming for horses.
8. Describe equine evolutionary development and explain historical contributions of the horse.
9. List career opportunities and explain requirements for successful employment.
10. Explain the values, themes, methods, history, and current trends in the equine industry.
11. Summarize current research specific to the discipline and use appropriate citations.

### **Topics and Scope:**

1. History and Development of the Horse Industry
  - a. Evolution and domestication of the horse
  - b. Historical and cultural uses
  - c. Economic importance
2. Horse Breeds and Classes
  - a. Origin and adaptation

- b. Classes
- c. Major uses
- 3. Equine Selection
  - a. Functional anatomy
  - b. Selection
  - c. Evaluation of unsoundness
  - d. Vices
- 4. Breeding and Reproduction
  - a. Stallion management
  - b. The mare
  - c. Gestation
  - d. Foal management
- 5. Feeding and Nutrition
  - a. Digestion and utilization of feed
  - b. Nutrient requirements
  - c. Pasture management
- 6. Disease and Parasites
  - a. Common equine health problems
  - b. Parasite control
  - c. Health programs
- 7. Equine Facilities and Equipment
  - a. Ranch layout
  - b. Facilities
  - c. Equipment identification
- 8. Basic Horsemanship
  - a. Finances of keeping a horse
  - b. Ground safety
  - c. Basic horse handling
- 9. Orientation to the Equine Industry
  - a. Values, themes, methods
  - b. History
  - c. Current trends
- 10. Introduction to Discipline-specific Research Sources and Tools
  - a. Seminal books
  - b. Important periodicals
  - c. Major indexing sources
  - d. Professional and trade organizations
  - e. Standard reference tools
  - f. Discipline-specific tools
  - g. Online resources
  - h. Using appropriate citations

**Assignment:**

- 1. Laboratory practical exam
- 2. Two written midterms and one final exam
- 3. 3-4 quizzes
- 4. Research project and paper (8-10 pages)
- 5. Laboratory reports (10-14)
- 6. Reading: approximately 30 pages per week from periodicals, handouts, online sources, and textbooks.

## 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.

Research paper/project

Writing  
20 - 30%

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

Lab reports

Problem solving  
10 - 20%

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

Lab practical exam

Skill Demonstrations  
20 - 30%

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

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

Exams  
40 - 50%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

None

Other Category  
0 - 0%

## Representative Textbooks and Materials:

Equine Science, 4th Edition, Parker, Rick, Delmar Cengage Learning, 2013.