Approved (Changed Course)

EQSCI 25 Course Outline as of Fall 2021

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	10	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 or appropriate placement based on AB705 mandates

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 or appropriate placement based on AB705 mandates
Limits on Enrollment:

Transfer Credit: CSU;UC.
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:	Transferable	Effective:	Fall 1981	Inactive:
UC Transfer:	Transferable	Effective:	Fall 1981	Inactive:

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. Demonstrate understanding of the anatomy of the horse and the effects on management strategy.
2. Explain health management practices for prevention of common diseases and parasites.
3. Evaluate conformation and breed for suitability in equine training programs.

Objectives:
At the conclusion of this course, the student should be able to:
1. Explain the role of the horse in the development of civilization world-wide and the current contributions of the horse to society.
2. Identify eight common breeds of horses and assess the selection pressures involved in the development of each breed.
3. Demonstrate an understanding of conformation with respect to the horse's motion and intended use.
4. Demonstrate knowledge of common horse parasites, their role in disease processes, and their control.
5. List common infectious diseases and explain the role of preventive health and vaccination programs.
6. Explain the basic principles of digestion and describe practical nutrient requirements for various stages of production in the equine.
7. Relate form to function with regards to equine anatomy.
8. Demonstrate knowledge of practical equine reproductive management.
9. Demonstrate a basic understanding of horse behavior in different surroundings
10. Design an efficient and safe horse-handling facility.
11. Demonstrate ground safety while performing routine basic health and grooming tasks.
12. Describe career opportunities in the equine industry.

Topics and Scope:

I. Evolution of the Horse
   A. Prehistoric evolution
   B. Domestication and historic influence
   C. Development of the modern horse
II. Horse Breeds and Classes
   A. Origin and adaptation
   B. Selection pressures and development
   C. Current uses
III. Anatomy and Conformation
   A. Basic structural anatomy
   B. Motion of the horse and gait analysis
   C. Lameness
IV. Breeding and Reproduction
   A. Mare reproductive physiology
   B. Stallion reproductive anatomy
   C. Pregnant mare
   D. Broodmare and foal management
   E. Management of reproduction
V. Feeding and Nutrition
   A. Digestion and utilization of feed
   B. Nutrient requirements
   C. Pasture management
   D. Dental health
   E. Feeding systems
VI. Disease and Parasites
   A. Common equine health problems
      1. Common internal and external parasites
      2. Common infectious diseases
      3. Common non-infectious diseases
   B. Parasite control and management
   C. Preventative health and vaccination programs
VII. Equine Facilities and Equipment
   A. Ranch layout
   B. Facilities
   C. Equipment
   D. Stabling alternative
VIII. Basic Horsemanship
   A. Finances of keeping a horse
   B. Hoof care and shoeing
   C. Basic horse handling
IV. Orientation to the Equine Industry
   A. Values, themes, methods
   B. History
   C. Current trends
X. Equine Behavior
   A. Normal
   B. Vices
All lab topics will be aligned with lecture topics.

Assignment:

Lecture Assignments:
1. Reading: approximately 30 pages per week from periodicals, handouts, online sources, and textbooks
2. One written midterm and one final exam
3. Quizzes (3-4)
4. One research project or research paper (2-3 pages)

Lab Assignments:
1. Laboratory reports (10-14)
2. Laboratory practical exam (1)

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 20 - 30%

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

Lab practical exam	Skill Demonstrations 10 - 20%

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

Quizzes, midterm, and final exam	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. 5th ed. Parker, Rick. Delmar Cengage Learning. 2019