

Lassen Community College Course Outline

AGR 14 Equine Science

3.0 Units

I. Catalog 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. This course has been approved for hybrid delivery.

Recommended Preparation: Successful completion of ENGL 105 or equivalent multiple measures placement.

Transfers to both UC/CSU

C-ID AG-AS 116L

34 hours lecture/51 hours lab

Scheduled: Spring (odd)

II. Coding Information

Repeatability: Not Repeatable, Take 1 Time

Grading Option: Graded or Pass/No Pass

Credit Type: Credit - Degree Applicable

TOP Code: 010240

III. Course Objectives

A. Course Student Learning Outcomes

Upon completion of this course the student will be able to:

Design and implement a basic health management and disease prevention plan for a horse.

B. Course Objectives

Upon completion of this course the student will be able to:

1. Describe major historical developments in the horse industry.
2. Identify eight common breeds of horse and explain the selection pressures involved in the development of each breed.
3. Identify and discuss the functional anatomy of the horse.
4. Identify and describe functional criteria of horse selection.
5. Define basic health, disease prevention, and parasite control as it pertains to the horse industry.
6. Describe and contrast different horse management practices.
7. Describe major horse behavior and training techniques.
8. Define basic concepts of horse production as a business.

IV. Course Content

The following topics may be included in the course but are not intended as limits on its content.

- A. History and development of the horse industry (i.e. evolution, domestication, and zoological scheme)
- B. Horse breeds

1. Origins
2. Selection pressure and how it effects development of the breed
3. Current uses
- C. Horse functional anatomy (i.e. skeleton of the horse, anatomy of the foot)
- D. Selection and judging of horses
- E. Horse health
 1. Disease control
 2. Parasite control
- F. Common Disease
- G. Markings and identifying horses
- H. Hoof care
 1. Foot problems
 2. Unsoundness in horses
- I. Transportation
- J. Horse behavior
- K. Reproduction
 1. Mare
 2. Stallion
- L. Training and controlling the horse
 1. Grooming
 2. Horsemanship
- M. Facilities and Equipment
 1. Safety
 2. Equipment
- N. Basic concepts of business (i.e. capital, budgets, management traits, syndicated horses, breeding contracts, taxes and insurance)

V. Lab Activities

1. Horse behavior, handling and safety
2. Basic Horse Care
3. Horse Selection and Evaluation
4. Herd health and vaccination
5. Equine Nutrition
6. Tools and Equipment identification
7. Equine Reproduction

VI. Assignments

A. Appropriate Readings

Standard college level texts (Equine Science by Rick Parker) will be required. Additionally, articles and materials from other learning sources will be used to enhance the learning process.

B. Writing Assignments

In order to successfully complete this course, students must demonstrate understanding of course content on several written measures, including mixed format essays and examinations, and a final term paper written on a topic of interest germane to the course content.

C. Expected Outside Assignments

Outside assignments will include weekly reports related to each learning unit, research assignments, field trips, etc.

D. Specific Assignments that Demonstrate Critical Thinking

The students will demonstrate critical thinking skills through written analysis of differences in management and business techniques and demonstration of training skills in lab.

VI. Methods of Evaluation

Tradition Classroom Evaluation

1. Performance on exams.
2. Performance on term papers.
3. Classroom assignments.
4. Final Examinations.

Hybrid Evaluation

All quizzes and exams will be administered during the in-person class time. Students will be expected to complete online assignments and activities equivalent to in class assignments and activities for the online portion of the course. Electronic communication, both synchronous and asynchronous (chat/forum) will be evaluated for participation and to maintain effective communication between instructor and students.

VII. Methods of Delivery

Check those delivery methods for which, this course has been separately approved by the Curriculum/Academic Standards Committee.

Traditional Classroom Delivery Correspondence Delivery

Hybrid Delivery Online Delivery

Traditional Classroom Delivery

Lecture, discussion, audio-visual media, field trips, and other appropriate methods to be determined by the instructor.

Hybrid Delivery

A combination of traditional classroom and online instruction will be utilized. Every semester, a minimum of 17 hours of class will be taught face-to-face by the instructor and the remaining hours will be instructed online through the technology platform adopted by the District. Traditional classroom instruction will consist of lectures, visual aids, discussions and group activities. Online delivery consists of instructor-generated information, readings, news communications, web links and activities as well as facilitation of forum based discussions and communications.

VIII. Representative Texts and Supplies

Rick Parker, "*Equine Science*," 5th edition, 2019, Delmar Cengage Learning, ISBN: 9781305949720

Additional handout material supplied by the instructor will enhance the scope of information covered in the course objectives.

IX. Discipline/s Assignment

Equine Science, Agricultural Production

X. Course Status

Current Status: Active

Original Approval Date: 2/27/1990

Board Approved: 11/12/2014

Chancellor's office Approved: 11/20/2014

Revised By: Brian Wolf

Curriculum/Academic Standards Committee Revision Date: 11/03/2020

Revised for IPR, no change: 03/15/2022