

EQSC 170 Course Outline as of Summer 2025**CATALOG INFORMATION**

Dept and Nbr: EQSC 170 Title: FARRIER SCIENCE
 Full Title: Farrier Science
 Last Reviewed: 8/28/2017

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

Total Out of Class Hours: 105.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

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

Also Listed As:

Formerly: EQSCI 170

Catalog Description:

Basic anatomy and physiology of the horse's limbs and feet. Causes, treatment and prevention of common lameness problems, horseshoeing terminology, and guidelines for assessing proper horseshoeing and hoof trimming.

Prerequisites/Corequisites:**Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

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

Description: Basic anatomy and physiology of the horse's limbs and feet. Causes, treatment and prevention of common lameness problems, horseshoeing terminology, and guidelines for assessing proper horseshoeing and hoof trimming. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit:

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:		Effective:	Inactive:
UC Transfer:		Effective:	Inactive:

CID:

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. Identify and describe basic anatomy and physiology of the horse's limbs and feet.
2. Identify causes, treatment and prevention of common lameness problems.
3. Define horseshoeing terminology and explain guidelines for assessing a proper horseshoeing job.

Objectives:

At the conclusion of this course, the student should be able to:

1. Identify all bones, major ligaments and tendons of the front and hind limbs and describe their function.
2. Assess a horse's foot and evaluate measures to gain proper balance.
3. Analyze various horses' motions and appraise applicable shoeing techniques for maximum horse benefit.
4. Compare unsoundnesses of the hoof and appraise their causes.
5. Diagram the internal and external parts of the hoof and analyze their function.
6. Examine hoof trimming tools and assess their function.
7. Assess horse hooves and discuss a plan to achieve proper balance.

Topics and Scope:

- I. Basic Anatomy of the Skeleton of the Horse
 - A. Ligaments of the forelimb and hindlimb
 - B. Tendons of the forelimb and hindlimb
- II. Anatomy of the Hoof
 - A. Proper balance
 - B. Diseases
 - C. Terms and function of the hoof
- III. Shoeing to Correct Gait Faults
 - A. Shoeing techniques
 - B. Corrective and therapeutic shoeing

IV. Ailments and Unsoundnesses of the Foot

- A. Conformation problems
- B. Thin walls
- C. Dropped soles

V. Hoof Trimming and Horse Shoeing Tools

- A. Function
- B. Costs
- C. Identification

VI. Barefoot Trimming

- A. Advantages and disadvantages
- B. Costs
- C. Skills needed

VII. Effects of Age, Health, and Conformation on Feet

Assignment:

1. Reading assignments from instructor prepared materials of approximately 5 to 10 pages weekly
2. Demonstration of proper horseshoeing techniques in a classroom setting
3. Observe and report on trimming and proper balance of hoof
4. Quizzes (2-5), final exam
5. Presentation or written report (3-5 pages) on topic related to farrier science

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.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing
0 - 0%

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

Assessment of horseshoeing and trimming demonstration and techniques

Problem solving
20 - 30%

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

Demonstration of leg and foot anatomical structures, trimming techniques

Skill Demonstrations
10 - 20%

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

Quizzes and exams: multiple choice, true/false, matching items, completion

Exams
30 - 40%

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

Presentation or report

Other Category
20 - 30%

Representative Textbooks and Materials:

Gregory's Textbook of Farriery. Gregory, Chris. Heartland Horseshoeing School. 2011 (classic)