

Equine Science – Semester A

Levels:	Grades 9-12
Units of Credit:	0.50
CIP Code:	02.0222
Core Code:	30-02-00-00-072
Prerequisite:	None
Skill Test:	#127

COURSE DESCRIPTION

Students will be exposed to equine science and technology principles which include genetics, anatomy, physiology/nutrition, diseases, pests, and management practices. The scientific processes of observation, measurement, hypothesizing, data gathering, interpretation, analysis, and application are stressed. Career opportunities and educational preparation are examined. Learning activities are varied, with classroom, laboratory, and field experiences emphasized.

CORE STANDARDS, OBJECTIVES, AND INDICATORS

STANDARD 1

Students will develop an understanding of the role of FFA in Agricultural Education Programs.

Objective 1: Students will understand the history and organization of FFA.

- a. Students will explain how, when, and why the FFA was organized.
- b. Students will explain the mission and strategies, colors, motto, parts of the emblem, and the organizational structure of the FFA.
- c. Students will recite and explain the meaning of the FFA Creed.
- d. Students will explain the purpose of a Program of Activities and its committee structure.

Objective 2: Students will discover opportunities in FFA.

- a. Students will describe how the FFA develops leadership skills, personal growth, and career success.
- b. Students will identify major state and national activities available to FFA members.

STANDARD 2

Students will understand the benefits of a Supervised Agricultural Experience (SAE) Program.

Objective 1: Students will determine the benefits of an SAE.

- a. Students will explain the importance of goals and career ladders.
- b. Students will define supervised horticultural/agricultural experience.
- c. Students will explain the benefits of supervised horticultural/agricultural experience programs.

Objective 2: Students will determine the kinds of SAE programs.

- a. Students will explain the difference between entrepreneurship and placement SAE's.
- b. Students will describe research/experimentation and exploratory SAE's.
- c. Students will explain the characteristics of a good SAE program and student responsibilities that are involved.

Objective 3: Students will research possible SAE programs.

- a. Students will identify career interest areas in agriculture.
- b. Students will identify skills needed for career success.
- c. Students will explain opportunities for SAE programs.

Objective 4: Students will plan an SAE program.

- a. Student will identify the steps in planning an SAE program.
- b. Student will identify the parts of an annual SAE program plan.
- c. Student will discuss the function of a training plan and/or agreement in an SAE program.

STANDARD 3

Students will study career opportunities in equine science.

Objective 1: Students will present the general skills required for employment.

Objective 2: Students will use resources and assess information.

Objective 3: Students will describe the educational opportunities available.

Objective 4: Students will list three ways to gain experience in the horse industry.

Objective 5: Students will identify eight careers and entrepreneurship opportunities in equine science.

STANDARD 4

Students will understand the history of the modern horse and the development of horse breeds, types, and classes.

Objective 1: Students will describe the development of modern horses.

Objective 2: Students will discuss the domestication of the horse.

Objective 3: Students will identify historical trends of human utilization of horses.

Objective 4: Students will describe the current horse industry.

Objective 5: Students will describe the gaits and movements of horses.

Objective 6: Students will classify and describe equine as pony, light, draft, and long-eared.

Objective 7: Students will list and describe equine breeds and their origins.

STANDARD 5

Students will analyze equine anatomy and physiology.

Objective 1: Students will identify the external parts of the horse.

Objective 2: Students will explore equine bodily systems.

Objective 3: Students will describe the skeletal and muscular systems of the horse.

Objective 4: Students will describe the digestive system of the horse.

Objective 5: Students will describe the reproductive systems of the horse.

STANDARD 6

Students will learn about equine nutrition and feeding management.

Objective 1: Students will list and discuss basic nutrients.

Objective 2: Students will identify feeds important to horses.

Objective 3: Students will balance an equine ration.

Objective 4: Students will list and describe equine nutritional disorders.

STANDARD 7

Students will explore concepts in equine health management.

Objective 1: Students will list, identify, and describe equine diseases.

Objective 2: Students will identify horse internal and external parasites.

Objective 3: Students will properly care for hooves and explain hoof anatomy.

Objective 4: Students will determine proper horse health management practices.

- a. Vaccination program
- b. Teeth floating and aging
- c. Sanitation