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.

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<th>Intended Grade Level</th>
<th>9-12</th>
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STRAND 1
Students will develop an understanding of the role of FFA in Agricultural Education Programs.

Standard 1
Students will determine FFA degrees, awards, and Career Development Events.
  • Students will explain the FFA degree areas.
  • Students will identify the FFA proficiency awards.
  • Students will explain various team and individual Career Development Events.

Performance Objective
  • Participate in FFA activities.

STRAND 2
Students will understand the benefits of a Supervised Agricultural Experience (SAE) Program.

Standard 1
Students will implement SAE programs.
  • Students will discuss the importance of keeping records on an SAE program.
  • Students will explain the types of financial records needed to support a chosen SAE program.
  • Students will identify standards to follow in keeping records on an SAE program.

Performance Objective
  • In an approved record book, record all transactions and activities on a SAE.

STRAND 3
Students will understand horse genetics.

Standard 1
Students will explore the fundamentals of genetics.

Standard 2
Students will investigate horse coat color and markings.

Standard 3
Students will explain the heritability of performance traits.

Performance Objective
  • Predict the heritability of coat color, markings, and performance traits.
**STRAND 4**

**Students will explore horse reproduction and parturition.**

**Standard 1**
Students will describe the physiology of the reproduction tracts of stallions and mares.

**Standard 2**
Students will summarize the estrus cycle and proper times to breed.

**Standard 3**
Students will describe proper horse gestation management.

**Standard 4**
Students will implement SAE programs.
- Artificial insemination
- Embryo transfer
- Cloning

**Standard 5**
Students will discuss proper care during pregnancy and parturition.

**Standard 6**
Students will describe the horse condition scoring system

**Performance Objective**
- Develop a breeding schedule for a mare.

**STRAND 5**

**Students will study and utilize equine behavior training.**

**Standard 1**
Students will list and discuss horse behavioral categories.

**Standard 2**
Students will demonstrate safe handling of horses.

**Standard 3**
Students will explain imprinting.

**Standard 4**
Students will identify abnormal horse behavior (vices).

**Standard 5**
Students will discuss how to load and haul a horse and how to check the safety of a trailer.

**Performance Objective**
- Demonstrate the safe handling of horses.
STRAND 6
Students will learn about equine facilities and equipment.

Standard 1
Students will identify, discuss, and describe the usage of Western and English tack.

Standard 2
Students will outline the transportation of horses.

Standard 3
Students will investigate horse facilities and fencing.

Standard 4
Students will discuss waste management.

Performance Objective
- Develop a waste management plan.

STRAND 7
Students will know how to evaluate and select a horse.

Standard 1
Students will summarize the considerations of purchasing a horse.

Standard 2
Students will recognize the ideal horse conformation characteristics.

Standard 3
Students will recognize conformation faults and predict potential unsoundness and/or lameness.

Standard 4
Students will present oral and written reasons in horse evaluation.

Performance Objective
- Select a horse based on conformation characteristics.
- Present oral reasons in horse evaluation.

Skill Certificate Test Points by Strand

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