

# STRANDS AND STANDARDS

## EQUINE SCIENCE 1



### Course Description

Students will be exposed to equine science principles which include the history of the horse, anatomy, nutrition, diseases, pests and overall health. 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.

<b>Intended Grade Level</b>	9-12
Units of Credit	0.5
Core Code	30.02.00.00.072
Concurrent Enrollment Core Code	N/A
Prerequisite	N/A
Skill Certification Test Number	127
Test Weight	0.5
<b>License Area of Concentration</b>	CTE and/or Secondary Education 6-12
<b>Required Endorsement(s)</b>	
Endorsement 1	Agriculture (CTE/General)
Endorsement 2	Animal Science & Technology
Endorsement 3	

## STRAND 1

Student will participate in personal and leadership development activities through the FFA.

### Standard 1

Student will use communication skills to effectively communicate with others.

- Understand when it is appropriate to listen and to speak.
- Understand and follow verbal and written instructions for classroom and laboratory activities.
- Will practice communication skills through public speaking using one or more of the following activities: memorized speech, prepared speech, extemporaneous speech, parliamentary practice, group presentation, or serving in a leadership capacity.

### Standard 2

Student will effectively use teamwork to respectfully work with others.

- Identify and understand different roles in working with a team.
- Lead a group discussion or serve in a leadership capacity.

### Standard 3

Student will use critical thinking and problem-solving skills

- Analyze the cause of the problem.
- Develop a solution to address the problem.
- Implement the plan.
- Evaluate the effectiveness of the plan.

### Standard 4

Student will be dependable, reliable, steady, trustworthy, and consistent in performance and behavior.

- Set and meet goals on attendance and punctuality.
- Prioritize, plan, and manage work to complete assignments and projects on time.

### Standard 5

Student will be accountable for results.

- Use an achievement chart for activities and behaviors in class that encourages a personal evaluation of classroom performance.
- Use reflection to describe what was learned, what went well, what could have been improved, and what are the implications to the learning process.
- Track and communicate progress toward completion of assignments and projects.

### Standard 6

Be familiar with the legal requirements and expectations of the course.

- Be familiar with the course disclosure statement and all requirements for successful completion of the course.
- Demonstrate workplace ethics, e.g. fair, honest, disciplined.

## STRAND 2

Student will participate in work-based learning activities through the Supervised Agricultural Experience (SAE) Program.

### Standard 1

Student will demonstrate employability skills.

- Use a career search network to find career choices.
- Identify appropriate CTE Pathway for selected career choice.
- Prepare for entry into the work force by completing one of the following: list of required skills needed for a career choice, a resume including a list of demonstrated skills, a cover letter or letter of application, a job application, or participate in an actual or simulated job interview.

### Standard 2

Student will participate in a work-based learning experience outside the classroom

- Student will plan and implement a Supervised Agricultural Experience Program:
  - Foundational SAE: Career exploration and planning, employability skills for college and career readiness, personal financial management and planning, workplace safety, and agricultural literacy.
  - Immersion SAE: Ownership/entrepreneurship, placement/internship, research, school-based enterprise, and/or service-learning experiences.

### Standard 3

Student will develop a job portfolio specific to their selected SAE/WBL experience.

- Student will keep a personal record/journal/log of their SAE/WBL experience; including pictures, financial records or log of their hours, skills learned, goals, reflection, etc.

## STRAND 3

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

### Standard 1

Students will describe the development of the modern horse.

- Students will discuss the domestication of the horse.
- Students will identify historical trends of human utilization of horses.
- Students will describe the current horse industry.

### Standard 2

Student will classify horses by breed, type, and class.

- Students will list and describe equine breeds and their origins
- Students will classify and describe equine as pony, light, draft, and long eared.
- Students will describe the gait and movement of horses.

## **STRAND 4**

**Students will analyze equine anatomy and physiology.**

### **Standard 1**

Students will identify the external parts of the horse.

### **Standard 2**

Students will describe the skeletal and muscular systems of the horse.

### **Standard 3**

Students will describe the digestive system of the horse.

### **Standard 4**

Students will describe the reproductive systems of the horse.

## **STRAND 5**

**Students will learn about equine nutrition and feeding management.**

### **Standard 1**

Students will identify feeds important to horses and discuss their nutrient value.

### **Standard 2**

Students will balance an equine ration.

### **Standard 3**

Students will list and describe equine nutritional disorders.

## **STRAND 6**

**Students will explore concepts in equine health management.**

### **Standard 1**

Students will list, identify, and describe equine diseases.

### **Standard 2**

Students will identify horse internal and external parasites.

### **Standard 3**

Students will properly care for hooves and explain hoof anatomy.

## Standard 4

Students will determine proper horse health management practices.

- Vaccination program
- Teeth floating and aging
- Sanitation

## Performance Skills

- Attend an FFA Meeting.
- The student will participate in a Supervised Agricultural Experience (SAE) Program.
- Correctly classify specific equine breeds.
- Identify equine breeds.
- Identify the external parts of a horse.
- Develop a balanced equine ration.
- Identify symptoms of equine diseases and parasites.

## Skill Certification Test Points by Strand

Test Name	Test #	Number of Test Points by Strand										Total Points	Total Questions
		1	2	3	4	5	6	7	8	9	10		