



# Veterinary Science

## -Curriculum Guide-

### Pequea Valley Agricultural Education



**Course Description:** Students in Veterinary Science should have a general interest in working and caring for small and large animals. This course is designed to help students gain the necessary skills needed in a veterinarian practice and/or to obtain the skills necessary to properly care for small and large animals. The course content will include units on anatomy and physiology of animals, animal health and management, and general laboratory skills. Students will have the opportunity to engage in dissections and hands on learning activities.

**FFA Membership:** You are an FFA member when you are enrolled in an agriculture class taught by Mr. Masser and/or Mrs. VanSant! You are welcome to attend FFA meetings when they are held on Wednesdays. Keep your ears open for opportunities that may interest you such as...

- Career Development Events - See [ffa.org](http://ffa.org) for a complete listing of events!
- Agriscience Research
- Leadership (Conferences, Public Speaking, Parliamentary Procedure)

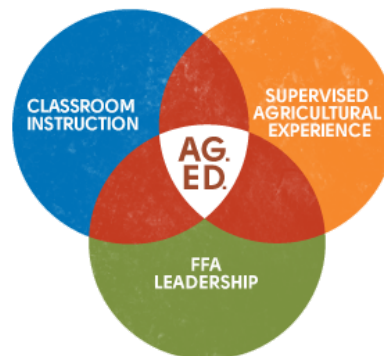
Events occur throughout the year. Much of the preparation for these events occurs outside regular class time, but your hard work could earn you a free trip to the Penn State campus in June, National FFA Convention in Louisville, KY, or BOTH! Please see Mr. Masser or Mrs. VanSant for details, we would love to share these awesome opportunities with you!

**Supervised Agricultural Experience (SAE):** Looking to earn an additional 1 elective credit for completing a project that interests you? The Agricultural Education department offers 1 elective credit to students who successfully complete an SAE project.

An SAE is ANY project that is student-driven, agriculturally-related, and supervised by an agriculture teacher. These projects could include:

- Agriscience Fair Project
- Work Experiences
- Caring for Animals or Plants
- Improvement Projects
- Career Exploration Projects

*Have a cool idea for an SAE?*



Ask your teacher how you can get started. We have connections to local businesses that will hire you, provide you greenhouse space, space to house animals and more!

## Course Schedule:

### Unit 1: Safety and Sanitation

- Topic 1: Vet Science in Agriculture Education
- Topic 2: Safety and Sanitation Methods
- Topic 3: Handling and Restraint

### Unit 2: Animal Anatomy and Physiology

- Topic 1: Anatomical and Directional Terminology
- Topic 2: Skeletal and Muscular Systems
- Topic 3: Respiratory and Nervous Systems

### Unit 3: Clinical Exams

- Topic 1: Signs of a Healthy Animal
- Topic 2: Physical Exam Procedures

### Unit 4: Hospital Procedures

- Topic 1: Bandaging
- Topic 2: Spay/Neuter
- Topic 3: Dispensing Medication
- Topic 4: Office Management Skills

### Unit 5: Laboratory Techniques

- Topic 1: Circulatory System
- Topic 2: Urinalysis
- Topic 3: Posology

### Unit 6: Animal Nutrition

- Topic 1: Digestive Process and Major Nutrients
- Topic 2: Assess Dietary and Feeding Factors
- Topic 3: Analyzing Feed Labels

### Unit 7: Animal Behavior and Management

- Topic 1: Behavior and Communication
- Topic 2: Breed Identifications
- Topic 3: Training Theories