



Animal Science

-Curriculum Guide-
Pequea Valley Agricultural Education



Course Description: From cats and dogs to livestock and dairy, this course will help students build the skills needed to understand how to raise and manage agricultural and companion animals. Emphasis will be placed on the anatomy/physiology, nutrition, health, training, and daily care of animals used for production and companionship. Students in this course will be responsible for the care of the rabbits and fish tanks in the agriculture classrooms, providing each student with a hands-on project the entire semester.

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 for a complete listing of events!
 - Livestock Evaluation
 - Dairy Cattle Evaluation/Handling
 - Horse Evaluation
 - Poultry Evaluation
 - Vet Science

- Leadership (Conferences, Public Speaking, Parliamentary Procedure)
- Community Service Opportunities

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 as we would love to share these awesome opportunities with you!

Supervised Agricultural Experience (SAE): Looking to earn an additional elective credit for completing a project that interests you? The Agricultural Education department offers elective credit to student who successfully completes an SAE Project. You will have the opportunity to start your own SAE project this year in class!

Classroom Instruction: The PV Agriculture Department offers a variety of Agricultural classes in areas including: Plant Science, Animal Science, Food Science, Ag Mechanics, Environmental and Natural Resources and many more! Ask your instructor about how these classes could fit into your schedule!

A course outline is provided for you on the next page which will guide you through the units and topics that will be covered in this course.

Course Outline

Week		
Week 1	Unit 1: Introduction to Animal Science	Topic 1: What is Animal Science?
Week 2		Topic 2: Animal Industries/Terms
Week 3		Topic 3: Careers in Animal Science
Week 4	Unit 2: Animal Anatomy & Physiology	Topic 1: Biological organization of animals
Week 5		Topic 2: Body Systems: Skeletal, Muscular, Respiratory, Nervous
Week 6		Topic 3: External Anatomy Topic 4: Directional Terminology Topic 5: Animal Evaluation
Week 7	Unit 3: Animal Reproduction	Topic 1: Male Anatomy
Week 8		Topic 2: Female Anatomy
Week 9		Topic 3: Reproductive Technologies
Week 10	Unit 4: Growth & Development	Topic 1: Selective Breeding
Week 11		Topic 2: Prenatal Growth and Development
Week 12		Topic 3: Postnatal Growth and Development
Week 13	Unit 5: Animal Nutrition	Topic 1: Digestive Systems
Week 14		Topic 2: Feedstuffs
Week 15		Topic 3: Feed Rations
Week 16	Unit 6: Animal Health & Disease	Topic 1: Animal Ethics
Week 17		Topic 2: Animal Diseases Topic 3: Treatment Methods
Week 18	Unit 7: Animal Facilities & Management	Topic 1: Animal Facilities
Week 19		Topic 2: Animal Behavior
Week 20	Unit 8: Small Animal Care	Topic 1: Small Animal Care and Management
Final Exam		