Course Title: 868 - Honors Small Animal Science & Care
Board Approval Date: November 17, 2020
Credit / Hours: 1.0 Credit / 126 hrs.

Course Description:

This course will emphasize the specific knowledge required to work with and care for smaller animals and pets. Areas of study will include genetic selection for breeding programs, creating the proper housing environment, providing veterinary care, and understanding animal behaviors. Students will have the opportunity to observe and handle live animals. This course is recommended for any student considering a career related to veterinary medicine or other types of animal care. This course counts as a science credit toward graduation requirements and will count for the Ag General CIP 1.0000 scope and sequence.

Learning Activities / Modes of Assessment:

Unit Projects
Quizzes
Tests
Demonstrations & Presentations
Laboratory Experiment Analysis
Lab Reports
Technology
Animal Identification
Veterinary Tool Identification
Socratic Seminars
Group Projects

Instructional Resources:

Textbook: Small Animal Science & Care: 3rd Edition (Warren)
Online Resources
National FFA Veterinary Science Career Development Event Materials
Lab Supplies
Journal Articles
Live Animal Examples - Rabbits commonly used

Curriculum: Agriculture General CIP 1.0000 (Animal Science Content)
Course: 868 - Honors Small Animal Science & Care

Know/Task:	Understand:	Do:
101 - Uses of Animals 102 - Animal Handling 107 - Predict with Punnett Squares 109 - Preventative Medicine 110 - Animal Health & Safety 112 - Pest and Disease Impact 113 - Animal Technologies 114 - Medication Labels 402 - Safety Rules 403 - Wear PPE 404 - Positive Safety Attitudes 406 - Data and Measurement Calculations 409 - Comprehend SDS 507 - Research Careers in Agriculture 802 - Application of Biotech 803 - Animal Biotech Issues	Scientific Classification Scientific Names Dichotomous Keys Small Animal Use Trends Handling Common Chemicals Zoonotic Diseases Differences in Animal Perception and Behavior Safe Animal Restraint Techniques Animal First Aid Steps Canine CPR Steps Popular Pet Species Benefits of Pets Stages of Grief for Pet Loss Pet Ownership Data Trends Scientific Method Animal Rights vs. Animal Welfare Distinctions Examples of Controversial Issues Tips for Successful Opinion Research and Debate	Compare and contrast characteristics Describe taxonomy Use and create dichotomous keys Discuss various zoonotic diseases Identify and describe characteristics and treatment for zoonotic diseases Demonstrate or describe animal handling Analyze the impact of visual perception on reality and reaction Prepare and demonstrate steps to take in an animal related emergency Utilize the scientific method to study, test, and analyze pet ownership trends at local and national levels Identify breeds and species of popular pets based on photos Read and summarize opinion-based and research-based articles. Discuss topics based on research (Socratic Seminars)

	Scientific Method	Examine and reflect upon personal viewpoints
	Feed Efficiency Calculation	
	Feed Type Transition Calculation	Perform calculations to transition feed type from one to another
	Handling and Care for Rabbits	Measure and record amounts of feed given, feed remaining, and body weight changes in rabbits
	Genotype vs. Phenotype	Handle and care for rabbits
	Monohybrid Crosses	Discuss and identify genetic information
	Meiosis & FOIL	
	Types of Genetics Dominance	Draw parallels between biological/cellular development and genetic calculations
	Dihybrid Crosses	
	Genetic Predictions	Construct and solve predictability from monohybrid and dihybrid crosses
	Epistasis	
	Genetic Dominance Hierarchy (Rabbit Fur Pigment)	Apply genetic problem solving
	History and Domestication of Selected Pet Species	Conduct research about various areas for an assigned animal species
	Animal Behaviors & Environment of Selected Pet Species	Prepare a presentation or lesson to share learned information
	Pet Care of Selected Pet Species	Understand presented information to diagnose likely issues
	Identifying Animal Health Issues	Read medication labels to select and properly dose
	Types of Injections	
	Reading Medication Labels	Identify tools and equipment used in veterinary practice based on photos
	Completing Dosage Instructions	
	Basic Information About Animal Agriculture Careers	Demonstrate correct syringe filling and other veterinary techniques as outlined in the FFA Veterinary Science CDE.

		Examples: surgical site prep, prescription filling, aural medication delivery, etc. Develop a product to share career information from research

Pacing Guide

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Course Unit (Topic)	Length of Instruction (Class Periods)
Introduction to Small Animal Science	7
Safety Considerations	8
Pet Ownership	8
Animal Rights and Animal Welfare	6
Rabbit Feed Study	15
Genetics	13
Small Animal Pet Species	9
Veterinary Techniques	15
Small Animal Science Careers	6
Final Exam Assessment	3
TOTAL DAYS	**90**