

**Course Title:** 872 - 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

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: 872 - Small Animal Science & Care

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

|  |  |  |
|--|--|--|
|  | Feed Efficiency Calculation                            | Perform calculations to transition feed type from one to another                             |
|  | Feed Type Transition Calculation                       | Measure and record amounts of feed given, feed remaining, and body weight changes in rabbits |
|  | Handling and Care for Rabbits                          |  |
|  | Genotype vs. Phenotype                                 | Handle and care for rabbits  |
|  | Monohybrid Crosses                                     | Discuss and identify genetic information   |
|  | Meiosis & FOIL   | Draw parallels between biological/cellular development and genetic calculations              |
|  | Types of Genetics Dominance                            |  |
|  | Dihybrid Crosses                                       | Construct and solve predictability from monohybrid and dihybrid crosses                      |
|  | Genetic Predictions                                    |  |
|  | Epistasis  | 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                       |  |
|  | Types of Injections                                    | Read medication labels to select and properly dose   |
|  | Reading Medication Labels                              | Demonstrate correct syringe filling  |
|  | Completing Dosage Instructions                         |  |
|  | Basic Information About Animal Agriculture Careers     | Develop a product to share career information from research                                  |

## Pacing Guide

Course: 872 - Small Animal Science & Care

**Course Unit (Topic)** **Length of Instruction (Class Periods)**

|                                      |    |
|--------------------------------------|----|
| Introduction to Small Animal Science | 8  |
| Safety Considerations                | 10 |
| Pet Ownership                        | 10 |
| Animal Rights and Animal Welfare     | 6  |
| Rabbit Feed Study                    | 15 |
| Genetics                             | 15 |
| Small Animal Pet Species             | 10 |
| Veterinary Techniques                | 7  |
| Small Animal Science Careers         | 6  |
| Final Exam Assessment                | 3  |
| TOTAL DAYS                           | 90 |