

HAMILTON HIGH SCHOOL

BUTTE COLLEGE DUAL ENROLLMENT

Curriculum Guide

<u>COURSE TITLE:</u>	Animal Science
<u>PREREQUISITE:</u>	Junior or Senior Introduction to Agriculture or Consent from Instructor
<u>LENGTH OF COURSE:</u>	One Year

BRIEF COURSE DESCRIPTION:

This course provides information, activities, and skills in the areas of scientific method, classification systems, mammalian production, production management, health care, anatomy, physiology, nutrition, and genetics. The course will be an in-depth study of beef cattle, dairy cattle, sheep, swine, goats, and horses. The areas covered will be reinforced by hands-on experience through student projects.

GOALS AND OBJECTIVES:

1. Each student will receive a basic knowledge and appreciation for the industry of agriculture and the role agriculture plays in our lives, as well as advanced study of animal systems, feeding, management, and the importance of livestock.
2. Each student will receive the skills and training needed to complete appropriate secondary courses in science either at the college preparatory or general education level.
3. Students will learn record keeping skills using the AET system adopted by California FFA.
4. Each student will further develop leadership skills through involvement in the FFA. Each student is encouraged to maintain a Supervised Agricultural Experience Project.

CLASSWORK AND FFA ACTIVITIES:

- Advance notice will be given for all tests.
- Advance notice for quizzes may or may not be given.
- Homework helps reinforce ideas taught in the classroom and will be given throughout the year.
- Every student will have a binder that will be their agriculture notebook. This notebook will hold all notes, handouts, daily starters, homework, projects, and laboratory research. Notebooks will need to be in class every day and will be graded on completeness without prior notice throughout the year. Please keep them up to date and accurate.
- Attendance is important, as the activities involving discussion and classroom participation are valuable and notes cannot substitute what took place in the classroom. More than 5 absences may result in a deduction of credits. It is the responsibility of the student to make up any missed notes or assignments within **2 days** of an excused absence. It is best to do this before school, not during class instructional time. ***LATE ASSIGNMENTS WILL NOT BE ACCEPTED!***
- Every student will be expected to participate in **2 FFA activities during each semester**. FFA activities will be announced and posted in class.
- Every student will keep an accurate record book that corresponds to his or her FFA projects. The project must relate to agriculture where students can document money spent/earned, or hours worked.
- While participating in agriculture classes, school farm activities, and FFA I understand my picture may be taken and used in media promoting FFA and Hamilton High School.

COURSE OUTLINE:

1. Overview of Livestock Industry, Importance of Livestock
2. Safety in Livestock Production
3. Animals and Society

- a. Global Overview of the Livestock Industry
 - b. Livestock Industry
 - c. Companion Animals
4. Identify Breeds and Characteristics of Livestock
 - a. Beef Cattle
 - b. Sheep
 - c. Swine
 - d. Dairy Cattle
 - e. Horses
5. Livestock Production
6. Animal Health
 - a. Identify Signs of Unhealthiness
 - b. Common Diseases and Parasites
 - c. Vaccination, Castration, and Other Health Practices
7. Anatomy and Physiology
 - a. Analysis and comparison of body systems
 - b. Digestive Systems
 - c. Comparative Anatomy and Livestock Selection
8. Animal Breeding and Genetics
 - a. Reproduction
 - b. Artificial Insemination
 - c. Probability, Punnett Squares
 - d. Inheritance
 - e. Embryo Transplants
 - f. Biotechnology
9. Careers in Animal Science
10. Animal Products
 - a. Food Safety of Animal Products
 - b. Meats
 - c. Milk and Dairy Products

I have read this course outline and agree to follow class policies. I understand my grade will be maintained on Aeries/ABI, and that I may check it at any time.

Printed Name

Date

Student Signature

Parent Signature

GRADING:

Grades will be determined as follows:

Tests, Quizzes, and Projects	30%
Classwork, Homework	30%
Notebook	10%
Class Participation	20%
FFA	10%

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	59% and below

