

Course Title: Animal Science
Board Approval Date: 04/14/14
Credit / Hours: .5 credit

Course Description:

Within our student body there has always been a need and interest in the animal science field. In today's society, technology and job skills are a priority in obtaining and retaining employment. This course is designed to introduce and develop knowledge and skills necessary to work within the animal/veterinary science field. Live animals, specimens, models, tissue dissections, and industry professionals will be utilized in the instruction of animal handling, care techniques, and many other aspects related to veterinary science.

Learning Activities / Modes of Assessment:

Large group instruction	Tests and Quizzes
Teacher Demonstrations/Activities	Checklists / Teacher Observation
Small group work	Activities with Rubrics
Career Pathway Explorations	Lesson Worksheets
LFS Worksheets	Animal Specimen labs
Animal tissue dissections	Industry professionals

Instructional Resources:

Industry professionals
Animal specimens
Tissue samples
Instructor quizzes, tests, worksheets, and diagrams

Course Pacing Guide

Course: **Animal Science**

Course Unit (Topic)	Length of Instruction (Days/Periods)
1. Animal Classifications	25 days
2. Animal Nutrition	15 days
3. Body Systems	<u>50 days</u>
DAYS TOTAL	90 Days

Topic: A-1-Animal Classifications

Days: 25

Subject(s): Science

Grade(s): 10th, 11th, 12th

Know:

3.4.12.A1. – Important
CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time.

3.4.12.A2. – Essential
CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work.

3.1.12.A5. – Unranked
FORM AND FUNCTION - Analyze how structure is related to function at all levels of biological organization from molecules to organisms.

3.4.12.A1. - CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time.
3.1.12.A5. - FORM AND FUNCTION - Analyze how structure is related to function at all levels of biological organization from molecules to organisms.

Understand:

Students should define various animal science terminology as it relates to veterinary science concepts.

Do:

3.4.12.A1. – Important
CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time.

3.4.12.A2. – Essential
CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work.

13.1.A – Essential
Relate careers to individual interests, abilities, and aptitudes.

3.4.12.A1. - CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time.
3.4.12.A2. - CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work.
13.1.A - Relate careers to individual interests, abilities, and aptitudes.

Topic: B-2-Animal Nutrition

Days: 15

Subject(s): Science

Grade(s): 10th, 11th, 12th

Know:

3.4.12.A1. – Important CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time.

Animal feeds

Dental formula

Animal digestion

Ruminant digestion

Understand:

Students should understand various animal feeds and discuss how the digestive system of different animals functions.

Do:

3.4.12.A1. – Important CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time.

Identify and analyze various animal feeds

Identify and analyze different animal skulls

Calculate a dental formula

Discuss and identify parts of the ruminant stomach

Topic: C-3-Body Systems

Days: 50

Subject(s): Science

Grade(s): 10th, 11th, 12th

Know:

Respiratory System
Circulatory System
Skeletal System
Muscular System
Reproductive System
Common animal diseases
3.1.B.A2.b - ENERGY FLOW - Explain the important role of ATP in cell metabolism.
3.1.B.A5.b - FORM AND FUNCTIONS - Explain the role of water in cell metabolism.

Understand:

Students should understand how the different body systems of animals function.

Do:

3.1.B.A2.b – Essential
ENERGY FLOW - Explain the important role of ATP in cell metabolism.

3.1.B.A5.b – Essential
FORM AND FUNCTIONS - Explain the role of water in cell metabolism.

Identify various parts from all of the different systems in animals' bodies.