

# Veterinary Science

*An introduction to the science of large and small animal health*



## Course Syllabus:

This course syllabus will provide you with information pertaining to Veterinary Science, classroom expectations, grading policies, and what is expected of you as students. A syllabus is designed to give an overview of course requirements and answer general questions.

### Topics Covered in the Veterinary Science Syllabus

1. **Overview:**
2. **What You Will Learn:**
3. **Expectations for Students:**
4. **Expectations for Teachers:**
5. **Classroom Materials**
6. **Lab Policies and Materials:**
7. **Grading Scale**
8. **Semester Outline:**

## 1. Overview

This course is designed to provide a general introduction to the professional field of veterinary medicine and to present a concise summary of techniques utilized by veterinary professionals.

## 2. Student Learning

The goal of this course is to develop your personal work ethic to obtain a fundamental understanding of animal health and husbandry. At the end of the course the student will develop skills in the following areas:

1. Veterinary Practice Management
2. Anatomy and Physiology
3. Nutrition
4. Handling and restraining both large and small animals
5. Examination and Treatments
6. Laboratory Examination
7. Infectious and non infectious diseases
8. Disease control
9. Sterilization and surgical skills
10. Regulatory Veterinary Medicine

## 3. Instructor Expectations of Students

1. To take increasing responsibility for educational decisions on a daily and long-term basis.
2. To complete academic work both independently and cooperatively in a productive manner.
3. To think critically and solve problems using inductive and deductive reasoning.
4. To read effectively and communicate ideas and information using a variety of formats.
5. To demonstrate respect for individual differences.
6. To understand and demonstrate a sense of community.
7. Be polite!

## 4. Student Expectations of Instructor

1. To respect students, their ideas, thoughts, and personalities.
2. To provide a safe and effective environment for learning.
3. Establish trust and earn your respect.
4. To maintain order and provide organization.
5. Establish an environment where each student can be successful regardless of their past experiences.

## 5. Course Materials

Students will need the following materials for classroom work:

1. Three ring binder
2. Calculator
3. Colored pencils
4. Pen or pencil
5. Mac Book

## 6. Laboratory Policies and Materials

All science courses will require laboratory assignments. While the lab provides the application of theory presented during class, the lab is still an extension of the classroom. While in the lab, students will abide by the following procedures or will be removed from class or reduction in grade. No excuses!

1. No running, throwing, yelling, or horseplay. Warning will not be given. You are young adults!
2. If you need equipment ask the instructor and it will be provided.
3. If you borrow materials from another student, please return them.
4. When using gas burners, the instructor will check your setup before lighting.
5. When using glassware please be careful. If breakage occurs, notify Mr. Clemons and dispose of glass properly.
6. All lab materials, chemicals, and equipment will be cleaned and stored before leaving the lab.
7. Failure to follow any of the above procedures will result in removal and zero lab grade.
8. Your expectations of the instructor are to provide a safe environment while in the lab and these procedures help insure that.

## 7. Grading Scale

Quarter and Semester grades will be determined using the guidelines established within the 2011-2012 VHS Student Handbook. Additionally, the following requirements are established within the Agriculture Program:

1. Students will complete daily review questions at the beginning of class.
2. Notes from lecture will be kept in a notebook or binder.
3. Chapter quizzes will be given each Friday.
4. Chapter tests will follow the completion of each chapter. We will complete the chapter review during class and it will serve as 25% of your test grade.
5. This class will rely heavily upon lab exercises. A lab form will be provided and will due at the end of the lab experiment.

### Virginia High School Grading Scale

96%-100%	A
93%-95%	A-
90%-92%	B+
87%-89%	B
84%-86%	B-
81%-83%	C+
78%-80%	C
75%-77%	C-
72%-74%	D+
69%-71%	D
68% and Below	F

Quarter grades will be determined by the following:

- Chapter Tests 50%
- Chapter Notes and Notebook 20%
- Lab 15%
- Homework 15%

## 8. Tentative Course Outline and Daily Activities–subject to change

Month	Week	Topic	Activity
August	3	Introduction	Safety, Legal, Overview
August	4	Patient Management	Care, Sanitation, Bedding
September	1	Normal Animal	Anatomy and Physiology
September	2	Normal Animal	Lab 1/2- Vitals, Genetics, Age
September	3-4	Animal Nutrition	Nutrients (Small Animal)
October	1	Animal Nutrition	Lab 6/8- (Large Animal)
October	2	Exam and Treatment	Physical, Medications
October	3-4	Exam and Treatment	Practicum/Bandages, First Aid
November	1	Lab Aids and Exams	Various Lab Tests
November	2	Lab Aids and Exams	Lab 4 and tests
November	3	Lab Aids and Exams	Practicum and tests
December	1	Human and Animal Health	Cause of Disease, Transmission, Genetics
December	2	Human and Animal Health	Prevention, Feed Disease,
December	3	Human and Animal Health	Lab 7
S e m e s t e r B r e a k			
January	1	Infectious Diseases	Bacterial, Viral, Fungal
January	2	Infectious Diseases	Lab 9/10 Parasitic and Rickettsial
February	1	Non Infectious	Nutritional, Reproductive, Chemical
February	2	Non Infectious	Lab 3 and Toxicity
February	3-4	Disease Control	Prevention, Treatment, Internal Parasites
March	1-2	Disease Control	Lab 10.1, External Parasites,
March	3	Disease Control	Biological products, disinfectants. Practicum
March	4	Disease Control	Dietary management small animal
April	1	Sterilization	Sterilization and Techniques
April	2	Surgical Skills	Instruments and Terminology
April	3-4	Surgical Skills	Prep and procedures,

			anesthesia,
May	1	Surgical Skills	Hands and field of operations
May	2	Surgical Skills	Practicum
May	3	Review	Exam