

Animal Science Three and Four: Veterinary Technology and Large Animal Science Course Proposal

Introduction: Animal Sciences are a relevant and popular field with many up and coming careers that are of interest to high school students. There are demands for trained people in the field of veterinary technology as well as for large animal veterinarians.

Overview: This course will have two parts. Students will be introduced to a general overview of animal systems and basic procedures that are used in a veterinary setting. For the second part of these courses students will take an in depth look at large animals including dairy, equine, and other livestock species. These species are large components of our food system and way of life. There is a high demand for people that can work with large animals because small animals are becoming more popular for veterinary students to study yet there is still a need for people that can work with large animals and large animal veterinarians in general.

Components: This course will have a classroom and a laboratory component. These will both take place during the class periods during the week. Students will also go on multiple field trips to look at different facilities for large animals and veterinary care.

Course Meeting: This course will meet for a single period, once a day, five days a week. This course must be taken both first and second semesters.

Course Credit: 1 credit per academic year.

Grade Level: 11 - 12

Grading: This course will use the standard grading that is used in the school system:

Superior: 93-100%
Above Average: 85-92%
Average: 77-84%
Passing: 70-76%
Failure: 0-69%

Attachment XVII-3A-2

Prerequisite: Students will have to take the Animal Science One and Two with a passing grade in order to be eligible to take this course. Students also will have previously taken a biology course with a passing grade.

Recommended Classes: Agricultural Sciences, FFA/Leadership

Teacher Materials: Introduction to Veterinary Science Text, Introduction to Veterinary Science lab materials, handouts provided by the teacher.

Teacher may become certified in different areas as a trainer in order to provide students with certification opportunities.

Facility Requirements: classroom, laboratory facilities, facilities accessible to tour for field trips.

Text: Introduction to Veterinary Science Text, Introduction to Veterinary Science lab materials, handouts provided by the teacher

Tools/Supplies: Computer access for students, microscopes, blank microscope slides, microscope slide sets. As funds are available other equipment can be phased into the class including grooming table, miscellaneous grooming tools, smocks, CPR demonstration dog, surgical instruments, bandaging materials etc.

Miscellaneous:

Local veterinarians will be consulted on procedures and knowledge that they would desire in a starting veterinary technician in their office.

Course Description:

Have you always wanted to be a veterinarian or a veterinary technician? Do you like working with large animals? Students will develop an understanding of large animal science and veterinary technology in this course. Through taking this course they will have a working knowledge of some of the basic procedures that are asked of veterinary technicians in local veterinary offices including properly retraining animals, taking vital signs, properly reading and filling syringes, bandaging, assisting in surgeries, testing for parasites, assisting with animal reproduction, and performing other common veterinary office procedures. They will work with small animals and large animals during the course with some sections of the course focusing specifically on the handling and management of large animals including cattle, horses, sheep, goats, and pigs. Students will gain experience through field trips working with each of these types of animals. Students will gain valuable skills by doing hands on activities with live animals and seeing them in a real life context. Students will

also gain leadership skills, management experience, and learn how to properly keep records. At the successful completion of this course, students may attain certifications in: Pet First Aid, Large Animal Quality Assurance, and Canine Care and Training along with others. Students will be assessed in this course through multiple assessments including tests, quizzes, participation, labs, homework, and supervised agricultural experience.

Animal Science Three and Four: Introduction to Veterinary Technology and Large Animal Science

Instructor: Mrs. Melanie Berndtson
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- Course Objectives:** As a result of this course, students will be able to:
1. Develop an awareness of the large animal industry including the areas of animal rights and animal welfare
 2. Develop leadership skills and an awareness of careers in the vet/large animal industry.
 3. Develop a working knowledge of veterinary medical terminology
 4. Exercise knowledge of general safety when working with large animals.
 5. Recognize characteristics of a healthy animal and care required to maintain animal health and well-being.
 6. Determine the role of nutrients and the nutritional requirements for different stages of animals' lives.
 7. Develop an understanding of immunology, zoonosis and public health and animal diseases and how these topics are connected.
 8. Identify the anatomy and describe the physiology of body systems.
 9. Demonstrate knowledge of veterinary hospital/office management and clinical lab procedures
 10. Evaluate and employ animal breeding methods.
 11. Identify, evaluate and perform general animal care/welfare procedures based on animal's use, species and life stage.
 12. Administer care to animals in case of disease, accident or illness.
 13. Develop a working knowledge of common large animal species.

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Grading:

<u>Assignment</u>	<u>Percent of 9 weeks grade</u>
Labs	20%
Daily Participation	15%
Projects	15%
Tests and Quizzes	15%
FFA Participation	10%
Homework	10%
Notebook	5%
Supervised Agricultural Experience	10%

Text:

Introduction to Veterinary Science, Delmar Publishing
Three ring binder for other handouts

Routines:

- Be in your seat, with your ag notebook, when the bell rings. Begin working on your bell work assignment.
- Come prepared to class, with all materials ready. This includes: notebook, pencil, and any other supplies specified by the teacher.
- No lining up at the door at the end of class.
- If you are absent, it is your responsibility to ask for the appropriate assignment and turn it in to Mrs. Berndtson. You will have one day for each day you are absent to make up the assignment.
- All pre-assigned assignments are due the day you come back to class. Late assignments will not be accepted after that time unless prior arrangements have been made.

Expectations:

- Be respectful of others.
- No profanity or put-downs!
- Horseplay is not permitted.
- No food or beverages without the permission of the teacher.
- Students will clean up after themselves, including personal items. The ag room should not be your locker!
- Have a positive attitude.
- All rules in the student handbook apply in this class, too.

Repercussions for Inappropriate Actions:

- Verbal Warning
- Removal from class
- Detention
- Calling parents
- Conference with principal, parents, you, and Mrs. Berndtson
- Other action as determined by offense.

Course Outline

Topic

Course Housekeeping

Intro to Animal Science/Veterinary Medical Terminology

External Anatomy

Body Systems

Nutrition and Reproduction

Caring for Your Animals

Health and Disease

Veterinary Hospital Procedures

Equine Science

Dairy Science

Other Large Animal Science

****This syllabus is subject to change at the discretion of the instructor. All modifications will be announced ahead of time and in writing whenever possible.***

Student Name: _____

Parent Name: _____

Student Signature: _____

Parent Signature: _____

Date: _____

Date: _____

Parent Contact Information: (Please include an e mail address, phone number, and any other contact information that you wish)

