

Course Title:	Veterinary Science II (H)
Grade(s):	11th/12th

Course Description
This advanced-level course will focus on animal diseases, immunology, microbiology, veterinary math, parasitology, and natural/global biosecurity issues. Students enrolled in this course will also focus on various clinical skills through hands-on labs. Students enrolled in the Honors section will complete differentiated assessments and showcase knowledge of 30 abbreviations and medical terminology that can assist in the care of animals. Students will also complete an additional project demonstrating their understanding of the veterinary industry that will run the course of the semester.
Approved Curricular Materials/Textbook(s)

Unit Title	Unit Description (Include Unit Objectives)	Unit Pacing
Unit 1: Intro, Biosecurity, SOAP, PE	The focus of this unit is to investigate the veterinary industry as it relates to biosecurity protocols, farm safety, conducting, analyzing, and documenting medical records. Students will: • Create biosecurity plans for various livestock and companion animal species • Demonstrate proper structure and techniques of physical exams • Analyze the findings of physical exams using the SOAP method • Following the SOAP method, students will properly document PE findings Honors Project begins with: • Evaluating medical scenario, Physical Exam, and medical documentation	3-4 weeks
Unit 2: Clinical Skills	Unit 2 revolves around the clinical skills veterinary assistants, technicians, and	6-8 weeks

	veterinarians may have to demonstrate based on their job descriptions. Students will: • Analyze and decode medical abbreviations (students in the Honors section will identify and classify a minimum of 30 abbreviations) • Calculate veterinary pharmaceutical doses and dosages • Interpret veterinary prescriptions • Interpret and classify veterinary syringes by type, use, and size • Demonstrate different types of injections (Sub Q, IM, and IV) and classify when each would be used • Differentiate between absorbable and non-absorbable sutures, as well as interrupted suture patterns and continuous sutures • Demonstrate suturing skills Honors Project continues with: • Determining medication used for treatment for scenario, dosages and doses calculated, documented, prescribed, and “filled” • Supplemental supportive care is identified with injection type and classifications • Differentiating whether surgical intervention is needed or not, and classification of the suture needed	
Unit 3: Animal Nutrition and Dentistry	Unit 3 focuses on animal nutrition and animal dentistry. Students will be able to do the following throughout and by the end of this unit: • Classify types of feed and the nutritional importance • Distinguish between healthy and unhealthy ingredients • Properly read a feed label for important feed characteristics • Classify types of teeth in an animal's mouth • Properly age animals based on their teeth structure and condition Honors Project continues: • Animal feed classification is needed throughout supportive care, surgical intervention, or specialty needs • Dentistry health care plan established	3 weeks
Unit 4: Renal &	This unit focuses on the renal and nervous systems of animals.	2-3 weeks

Nervous Systems	Students will: • Identify the parts of the renal and nervous system as well as differentiate their functions and purpose • Dissect a sheep brain • Conduct a simulated urinalysis lab test to compare and contrast lab results • Evaluate kidney functions and analyze results as they relate to veterinary scenarios • Be able to document medical evaluation using the SOAP system after evaluating laboratory test results Honors Project finishes with: • Common laboratory tests are analyzed and differentiated	
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