

STRANDS AND STANDARDS

VETERINARY ASSISTANT 1



Course Description

This course provides the opportunity for students to explore different avenues of the veterinary profession. Students will be exposed to veterinary science and principles which include anatomy, physiology, chemistry, animal health and disease, dentistry and laboratory procedures. Students will provide hands-on care as they develop skills in the areas of surgical assisting, bandaging, wound care, oral care, and general nursing care.

Intended Grade Level	11-12
Units of Credit	1.0
Core Code	30.02.00.00.090
Concurrent Enrollment Core Code	N/A
Prerequisite	Biology
Skill Certification Test Number	124
Test Weight	1.0
License Type	CTE and/or Secondary Education 6-12
Required Endorsement(s)	
Endorsement 1	Agriculture (CTE/General)
Endorsement 2	Animal Science & Technology
Endorsement 3	N/A

STRAND 1

Students will understand the role of FFA/HOSA in Agricultural Education

Standard 1

Students will explain the purpose of leadership opportunities associated with FFA/HOSA.

Standard 2

Students will have the opportunity to participate in both veterinarian-related and leadership events with FFA/HOSA.

Standard 3

Students will understand the professionalism requirements related to FFA/HOSA participation.

Standard 4

Students will be able to describe how FFA/HOSA develops leadership skills, personal growth, and career success.

Standard 5

Students will understand the history and organization of FFA/HOSA.

Performance Objective

- As a part of their participation in the CTSO; students will attend an FFA/HOSA meeting.

STRAND 2

Students will participate in a Supervised Agricultural Experience (SAE) program.

Standard 1

Students will prepare for an externship opportunity by developing skills that will be used in the veterinary clinic.

Standard 2

Students will understand the level of professionalism required for participation in an externship portion of the program. This includes appropriate dress, grooming, attitude, and performance.

Standard 3

Students will develop excellent professionalism, work skills, and work habits during the externship experience.

Performance Objective

- The student will participate in a Supervised Agricultural Experience (SAE) Program.

STRAND 3

Students will demonstrate an understanding of medical terminology, in order to be able to appropriately discuss and read medical information.

Standard 1

Students will be able to define medical terms related to each body system and directional anatomy.

Standard 2

Students will be able to identify prefixes, suffixes, and root words, in order to define medical terms.

Standard 3

Students will be able to interpret and extract information from realistic medical documents.

Standard 4

Students will interpret and apply medical abbreviations and symbols.

Performance Objective

- The student will be able to interpret and extract information from realistic medical documents.
- The student will interpret and apply medical abbreviations and symbols.

STRAND 4

Students will demonstrate an understanding of animal anatomy and physiology.

Standard 1

Students will dissect preserved cats, or other appropriate animals, in order to gain an understanding of animal anatomy and physiology.

Standard 2

Students will be able to correctly identify superficial muscles that are involved in the movement of an animal.

Standard 3

Students will learn the bones in the body and be able to identify them on skeletal models.

Standard 4

Students will be able to identify various body parts and organs.

Standard 5

Students will be able to compare the anatomy of different species of animals, to include small animals, large animals, laboratory animals, and exotic animals.

Standard 6

Students will be able to describe the basic physiology involved in the functioning of each body system.

Performance Objective

- The student will dissect preserved cats, or other appropriate animals.

STRAND 5

Students will explore concepts in health management and disease.

Standard 1

Students will know the common vaccines, how to administer the vaccines, and when to give them.

Standard 2

Students will identify and describe common animal diseases and how they are transmitted.

Standard 3

Students will understand the purposes of basic treatments for common animal diseases.

Standard 4

Students will demonstrate the ability to provide treatments for common animal diseases.

Standard 5

Students will identify medications used to treat common animal diseases.

Standard 6

Students will know the common zoonotic diseases and the precautions needed to prevent these diseases.

Performance Objective

- The student will assist in providing prescribed treatments for common animal diseases.

STRAND 6

Students will express an understanding of the fundamental principles of veterinary medicine and be able to demonstrate proficiency in each area.

Standard 1

Students will study and develop an understanding of animal behavior.

Standard 2

Students will understand the principles of restraint/handling techniques and be able to demonstrate safe restraint/handling practices on small, exotic, and large animals.

Standard 3

Students will be able to correctly perform breed identification.

Standard 4

Students will be able to accurately take a preliminary history from a client and perform a basic physical examination, to include vital signs and other necessary assessments.

Standard 5

Students will know the basic nutritional requirements for each species of animal.

Standard 6

Students will be able to accurately assess wounds and provide appropriate wound care and management.

Standard 7

Students will know the materials needed and how to apply common splints, casts, and bandages on animals.

Performance Objective

- The student will demonstrate animal restraint/handling techniques on small, exotic, and large animals.

STRAND 7

Students will develop a basic understanding of medication administration.

Standard 1

Students will be able to name common medications used in veterinary practice.

Standard 2

Students will be able to demonstrate appropriate administration of oral, topical, and injectable medications.

Standard 3

Students will be able to demonstrate how to correctly determine appropriate medication dosages.

Standard 4

Students will be able to recognize and know how to treat adverse effects of medications.

Standard 5

Students will be able to identify contraindications for administering certain medications.

Performance Objective

- The student will be able to demonstrate appropriate administration of oral, topical, and injectable medications.

STRAND 8

Students will demonstrate proficiency in the office procedures related to veterinary practice.

Standard 1

Students will correctly demonstrate infection control practices, such as hand washing, gowning, gloving, and masking.

Standard 2

Students will learn to follow OSHA Standards/safe practices at all times to avoid injury to themselves or others including the handling and disposal of biohazardous waste and sharps.

Standard 3

Students will appropriately demonstrate communication skills and client education.

Standard 4

Students will demonstrate the ability to accurately complete and file health certificates and medical forms. (e.g. SOAP Subjective, Objective, Assessment, Plan, BAR, Bright, Alert, Responsive)

Standard 5

Students will understand the laws that govern veterinary medicine including veterinary-client-patient relationship and animal abuse.

Standard 6

Students will be able to identify the various associations available in the veterinary field.

Performance Objective

- The student will demonstrate appropriate use and disposal of needles and other sharps.
- The student will appropriately demonstrate the ability to communicate with and educate clients.

STRAND 9

Students will study and demonstrate the ability to perform surgical procedures while maintaining sterile technique.

Standard 1

Students will verbalize understanding of surgical and aseptic principles.

Standard 2

Students will be able to accurately identify surgical instruments.

Standard 3

Students will correctly demonstrate preparation for surgical procedures, to include preparing and sterilizing equipment and preparing the patient for surgery.

Standard 4

Students will demonstrate an understanding of how to maintain a sterile zone during surgery.

Standard 5

Students will demonstrate the ability to assist with common surgical procedures.

Standard 6

Students will be able to perform basic suture patterns.

Performance Objective

- The student will demonstrate aseptic techniques.

STRAND 10

Students will study and demonstrate an ability to perform laboratory procedures.

Standard 1

Students will demonstrate an understanding of concepts and the ability to perform skills related to microbiology and mycology.

Standard 2

Students will demonstrate an understanding of concepts and the ability to perform skills related to hematology.

Standard 3

Students will demonstrate an understanding of concepts and the ability to perform skills related to parasitology.

Standard 4

Students will demonstrate an understanding of concepts and the ability to perform skills related to urinalyses and other animal laboratory tests.

Performance Objective

- The student will demonstrate the ability to perform skills related to laboratory tests including urinalyses, microbiology, mycology, hematology, and parasitology.

STRAND 11

Students will demonstrate an ability to identify, treat and manage exotic and laboratory animals.

Standard 1

Students will correctly identify exotic and laboratory animals.

Standard 2

Students will be able to identify the care required by various exotic and laboratory animals.

Standard 3

Students will know the husbandry requirements for common exotic and laboratory animals.

Standard 4

Students will be able to identify common problems seen in the exotic and laboratory species.

STRAND 12

Students will study and prepare for career opportunities in Veterinary science.

Standard 1

Students will match interests and aptitudes to an occupational area.

Standard 2

Students will develop goals related to future employment.

Standard 3

Students will obtain education needed for a job.

Standard 4

Students will identify occupational competencies.

Standard 5

Students will identify schooling requirements that must be met in order to prepare for future employment.

Standard 6

Students will create a resume and develop interviewing skills, essential to obtaining a position in the veterinary field.

Performance Objective

- The student will create a resume and develop interviewing skills, essential to obtaining a position in the veterinary field.

Standards Brief – The following will assist in focusing instruction in regards to Core Diseases, Equipment and Materials, Parasites, and Breeds/Species.

Canine Core Diseases: Distemper, Parvovirus, Adenovirus -2 (Hepatitis), Rabies

Feline Core Diseases: Herpesvirus 1 (Rhinotracheitis), Calicivirus, Panleukopenia (Distemper), Rabies

Equine Core Diseases: Tetanus, Eastern/Western Equine Encephalomyelitis, West Nile, Rabies

Bovine Core Diseases: Costridial diseases (*Clostridium chauvoei*—Blackleg; *Clostridium septicum*—Malignant edema; *Clostridium perfringens*—Enterotoxemia; *Clostridium sordellii*—Sudden death; *Clostridium novyi*—Sudden death; *Clostridium haemolytica*—Redwater), IBR (infectious bovine rhino-tracheitis), BVD (bovine virus diarrhea), PI-3 (parainfluenza-3), BRSV (bovine respiratory syncytial virus)

Ovine/Caprine Core Diseases: *Clostridium perfringens* C and D toxoid, Tetanus

Porcine Core Diseases: Erysipelas (Diamond Skin Disease), Leptospirosis, Parvovirus

Camelid Core Diseases: *Clostridium perfringens* type C, D, *C. tetani*

Ferret Core Diseases: Rabies, Distemper

The National FFA Career Development Event Handbook will be used as a reference for this course specifically in regards to Equipment and Materials identification, Parasite identification, and Breeds/Species identification.

Skill Certificate Test Points by Strand

Test Name	Test #	Number of Test Points by Strand												Total Points	Total Questions
		1	2	3	4	5	6	7	8	9	10	11	12		
Veterinary Assistant 1	124	1		9	8	10	11	3	5	7	1		2	57	48