

The *Veterinary Science CPU* explores the variety of careers available in the animal health care field. Students discover a wide range of skills and procedures from basic animal care and first aid to surgical procedures, suturing, and CPR.

By using realistic trainers, students practice and explore many of the common skills used in the veterinary environment. These models provide hands-on experience in veterinary skills such as restraining for venipuncture and muzzling.

Areas Covered

- ◆ Exploration of the anatomy and physiology of common animal species
- ◆ Veterinary asepsis
- ◆ Virtual dissection of a cat
- ◆ Canine CPR
- ◆ Gauze muzzling techniques for dogs
- ◆ Canine cephalic venipuncture
- ◆ Proper venipuncture technique
- ◆ Suturing and wound closure
- ◆ Preventative medicine and basic care, including:
 - Nutrition
 - Vaccination
 - Spaying and neutering
- ◆ Surgical instrument identification
- ◆ Skills and knowledge to aid students in various HOSA competitions



Career Pathway Unit Includes:

Student Workbook, Instructor's Manual, Installation CD, Skills Cart™, Pet Emergency and First Aid DVDs, Stuffed Dog, Suture Tutor Skills Kit, Dog Leg Venipuncture Trainer, CatWorks CD, Canine Jaw Model, Canine Toothbrush and Toothpaste, Surgical Gown, Surgical Gloves, Surgical Scrub, Gauze Anesthetics

Veterinary Science Goals & Activities

- Acquire an overview understanding of veterinary science as a health care field.
- Explore major careers associated with veterinary science and the responsibilities, education, and licensing requirements for each.
- Research laws pertinent to veterinary technicians.
- Write a short paper discussing a career field using information gained through research.
- Select a veterinary science career to shadow.
- Discover basic facts about mammals, reptiles, and amphibians.
- Explore the anatomy of horses, cows, cats, and dogs.
- Examine the classifications of common companion and agricultural animals.
- Discover the basic anatomy of birds.
- Explore basic care and preventative medicine for canines and felines.
- Practice accurate interpretation of nutritional information.
- Discuss safety procedures.
- Perform muzzling procedures for canines.
- Explore mammalian anatomy.
- Perform a virtual cat dissection.
- Define venipuncture.
- Discover common venipuncture locations.
- Practice proper restraint techniques for canine venipuncture locations.
- Recognize various types of injections.
- Identify proper venipuncture technique.
- Perform venipuncture using a venipuncture trainer.
- Explore common surgical procedures such as spaying and neutering.
- Define suture.
- Explore the various types, uses, and techniques of suturing.
- Practice placing interrupted single sutures.
- Practice placing subcuticular sutures.
- Discover the importance of basic first aid.
- Explore the importance of proper emergency procedures.
- Discover the instances in which CPR is required in a veterinary emergency.
- Identify the proper steps to performing canine CPR.
- Explore and identify various companion animal breeds and species.
- Discuss various forms of anesthetics and anesthetic agents.
- Explore pharmacology and pharmacokinetics.
- Solve equations to properly administer medications.
- Discuss why veterinary dentistry is important.
- Practice using the Triadan system.
- Practice preparing for surgery.

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