

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 and mannequins, 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 and pig for exploration and comparison of mammalian anatomy
- ◆ Canine CPR
- ◆ Gauze muzzling techniques for both cats and dogs
- ◆ Canine cephalic venipuncture and feline jugular venipuncture restraint methods
- ◆ 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:

Veterinary Science CD and Instructor's Overview Booklet, Animal Kingdom 3D Encyclopedia, Animal Restraint for Veterinary Professionals, Animal CDs, Clinical Text for Veterinary Technicians, CPR Dog Mannequin, Skills Cart™, Pet First Aid Textbook, Stuffed Cat, Stuffed Dog, Suture Tutor Skills Kit and CD, Venipuncture Trainer

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 and felines.
- Explore mammalian anatomy.
- Perform a virtual cat dissection.
- Define venipuncture.
- Discover common venipuncture locations.
- Practice proper restraint techniques for canine and feline 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.
- Practice a finger sweep to dislodge a foreign object.
- Demonstrate rescue breathing.
- Simulate abdominal thrusts to dislodge an airway obstruction.
- Discover the instances in which CPR is required in a veterinary emergency.
- Practice the proper steps to performing canine CPR.
- Explore and identify various companion animal breeds and species.
- Perform a virtual pig dissection and write a paper comparing the anatomy of a pig with the anatomy of a cat.



Ronald A. Williams, Ltd.
1703 N. Parham Rd.
Suite 120
Richmond, VA 23229
800-752-6968
804-282-8239
804-282-4087
www.rawledu.com
info@rawledu.com