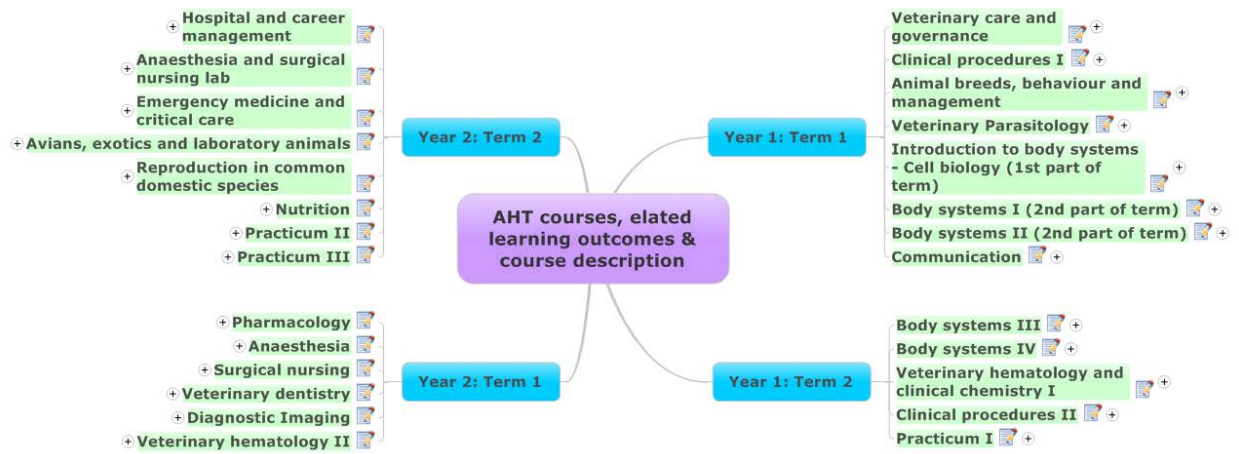


AHT courses, related learning outcomes & course descriptions



Year 1: Term 1

Course title: Veterinary care and governance

Course description: Students will restrain and provide care for veterinary patients within the legal boundaries of veterinary medicine while following appropriate safety protocols.

Learning outcomes:

- Observes the legal boundaries of veterinary health care team members (D4)
- Discusses the legality of the veterinary-client-patient relationship (D1)
- Complies with provincial, federal and local animal welfare regulations (D5)
- e.g. animal care act
- CCAC
- Respects and protects the confidentiality of client and patient information (L3)
- Follows patient and personal/personnel safety protocols (D2, J4)
- Restrains small and large common domestic animals and laboratory and exotic animals (E4, E5)
- use stuffed animals to begin
- Uses and maintains standard equipment used in animal care and nursing (G5)
- Provides care for healthy hospitalized patients (G1, G2, G10, G11, L3, L7, L8)

Course title: Clinical procedures I

Course description: Students will perform a variety of clinical procedures including bandaging, patient identification, administering medication, and sanitation following WHMIS regulations.

Learning outcomes:

- Prepares medications from verbal and written orders (C2, C3, C4, C6, C7, C9)
- Administers medication safely and effectively (G7, G11)
 - Perform basic lab math skills
 - Explain terminology specific to medications
 - Perform dosage calculations
 - Make solutions

- Scans for and reads an implanted microchip (New LO)
- Performs identification with tattoo, ear tags and microchip (G3)
- Works within WHMIS regulations for storing, handling and disposing of biologics and therapeutic agents, pesticides and hazardous waste (D6)
- Performs sanitation procedures for animal holding and housing areas (D8, L6)
- Performs sanitation procedures (biosecurity and biocontainment) for animal holding and housing areas (D8, L6)
- Performs bandaging techniques on various species (new LO)

Course title: Animal breeds, behaviour and management

Course description: Students will identify the common breeds of various domestic species including their behaviour and management.

Learning outcomes:

- Identifies common domestic animal species, breeds and colours (E1)
- Assesses patients (Behaviour) (E2, E3)
- Discusses the characteristics and purposes of various breeds (new LO)
- Compares animal production systems (new LO)

Course title: Veterinary Parasitology

Course description: Students will learn the fundamental biology of different groups of parasites and the general principles of their identification, control, collection, and processing.

Learning outcomes:

- Explains the life cycles of parasites of common domestic species (new LO)
- Explains the taxonomic classifications of parasites (new LO)
- Explains pathology caused by parasites (new LO)
- Performs parasitologic procedures (J9)

Course title: Introduction to body systems - Cell biology (1st part of term)

Course description: Students will discuss cell and tissue structure and function. Basic microbiological diagnostic techniques (collection, isolation, and biochemical identification) are presented. The basic properties of the various disease causing microorganisms are discussed.

Learning outcomes:

- Explains cell and tissue structure and function (New LO)
- Performs microbiologic procedures (J10)

Course title: Body systems I (2nd part of term)

Course description: Students will discuss the normal and abnormal anatomy and physiology of the urinary, endocrine and nervous systems. Students will also learn nursing care associated with these systems.

Learning outcomes:

- Explains body systems and their relevance to good nursing practices (C1, C8)
 - basic genetics
- Explains normal and abnormal integumentary system (new LO)
- Explains the normal and abnormal functions of the digestive system (new LO)
 - explain cell biology

Course title: Body systems II (2nd part of term)

Course description: Students will discuss the normal and abnormal anatomy and physiology of the musculoskeletal system. Students will also learn nursing care associated with this system.

Learning outcomes:

- Explains normal and abnormal muscular system (new LO)
- Explains normal and abnormal skeletal system (new LO)

Course title: Communication

Course description: Students will develop the written and oral communication skills needed by an Animal Health Technologist to communicate effectively with supervisors, co-workers, and clients.

Learning outcomes:

- Uses veterinary online services to develop and deliver client education information (A7, B1, B2)
- Selects the level of technical language appropriate to the audience (B3, K1, K2)
- Writes a variety of documents including business letters and reports (B4)
- Schedules appointments, creates and manages client/patient records, documents and logs manually using common veterinary software (A1, A3, A4, A6, A8, A9, B5)
- Interacts professionally with clients and fellow staff members by respecting others and working as part of a veterinary health care team (L2, L5, L10, K3, K12)

Year 1: Term 2**Course title: Body systems III**

Course description: Students will discuss the normal and abnormal anatomy and physiology of the integumentary and digestive systems. Students will also learn nursing care associated with these systems.

Learning outcomes:

- Explains normal and abnormal urinary system (new LO)
- Explains normal and abnormal endocrine system (new LO)
- Explains normal and abnormal nervous system (new LO)

Course title: Body systems IV

Course description: Students will discuss the normal and abnormal anatomy and physiology of the cardiovascular and respiratory systems and the special senses. Students will also learn nursing care associated with these systems.

Learning outcomes:

- Explains normal and abnormal special senses (new LO)
- Explains normal and abnormal cardiovascular system (new LO)
- Explains normal and abnormal respiratory system (new LO)

Course title: Veterinary hematology and clinical chemistry I

Course description: Students will discuss the genesis and function of the various blood cell types and become proficient in their recognition and evaluation. Students will practice cytological smear preparation, and urinalysis. In addition, students will also discuss clinical chemistry in relation to body systems.

Learning outcomes:

- Explains the genesis of blood cells in common domestic species (new LO)
- Identifies the blood cells in common domestic species (new LO)
- Discusses clinical chemistry in relation to body systems (new LO)
- Conducts hematologic evaluations (J8)
- Conducts urinalysis evaluation (J7)
- Performs cytologic procedures (J11)

Course title: Clinical procedures II

Course description: Students will perform a variety of clinical and laboratory procedures including bathing, physical exams, venipuncture, administering vaccinations and sample handling.

Learning outcomes:

- Assesses patients (TPR)(E2, E3)
- Performs venipuncture for blood sampling (G6, G12)
- Collects patient samples for diagnostic work (G12)
- Maintains laboratory equipment including performing quality control procedures (J2, J3)
 - Prepare, process and document diagnostic samples
 - Operate and maintain clinical chemistry analyzer
- Prepares, stores and ships samples using appropriate storage and shipment techniques and procedures (J1, J5)
- Performs basic grooming procedures on dogs (new LO)
 - nail trims
 - bathing
 - anal glands

Course title: Practicum I

Course description: Students will spend three weeks in a veterinary hospital where they will practice clinical skills learned in the first year of the program.

Learning outcomes:

- Provides care for sick hospitalized patients (G1, G2, G10, G11, L3, L7, L8)
- Practices AHT skills (new LO)

Year 2: Term 1**Course title: Pharmacology**

Course description: This course will make the student aware of the properties, delivery methods and regulations pertaining to common pharmacological agents used in veterinary medicine.

Learning outcomes:

Explains general types and groups of drugs their uses and clinically relevant effects and side effects (C1, C8)

- Works within regulation governing over-the-counter and prescription drugs (D3)
- Manages controlled substances (D7)
- Administers and monitors fluid therapy (G8, G9, G11)
 - calculate drip rates

Course title: Anaesthesia

Course description: In this course, students will assemble and maintain anaesthetic equipment, plan anaesthetic protocols and how to monitor anesthetized patients.

Learning outcomes:

- Assembles and maintains anaesthetic equipment (G5)
- Monitors medication (G7, G11)
- Discusses anaesthetic agents/drugs to effectively monitor patients (new LO)
 - Include CPR
- Plans anaesthetic protocols (new LO)
 - anaesthetic emergencies
- Performs endotracheal intubation (new LO)
- Transfers and set-up monitoring equipment (new LO)
 - blood pressure
 - ECG
 - capnograph

Course title: Surgical nursing

Course description: Students will apply the principles of aseptic techniques. Students will also prepare the patient, surgical suite, and surgical packs.

Learning outcomes:

- Assesses patients for pain based on species(E2, E3)

- Identifies and explains the uses of surgical instruments and equipment (new LO)
 - iv pumps
 - autoclaves
 - sterilization equipment
- Creates and maintains surgical records (new LO)
- Reviews analgesic drug protocols and their effects on the body (new LO)
- Practices aseptic techniques in all aspects of surgical nursing (new LO)
- Prepares sterile packs for surgery (new LO)

Course title: Veterinary dentistry

Course description: This course will prepare students to perform canine and feline prophylactic dental cleaning. The student will also assist the veterinary dental surgeon in common and selected species.

Learning outcomes:

- Performs dental prophylaxis (new LO)
- Maintains dental records (new LO)
- Maintains manual and mechanical dental equipment (new LO)
- Discusses appropriate dental home care with clients (new LO)

Course title: Diagnostic Imaging

Course Description: Students will learn the basics of x-ray equipment, radiation physics, image recording, radiation protection, and radiobiology to enable them to aid the veterinarian in diagnosis and treatment. In addition, students will discuss the theory of ultrasound imaging, and to the techniques involved with assisting a veterinarian to perform diagnostic ultrasound on a patient.

Learning outcomes:

- Works within recommended radiation safety measures (I1)
- Prepares and uses radiographic technique charts (I2)

- Takes and processes diagnostic radiographs for appropriate anatomical studies (I3, I4, I6)
- Maintains radiographic and ultrasound equipment (I5, I7, G5)

Course title: Veterinary hematology II

Course description: This course is a continuation of Hematology 1, with an emphasis on identification of pathological cells. Vaginal, otic, and bone marrow cytology will also be studied.

Learning outcomes:

- Identifies the abnormal blood cells in common domestic species (new LO)
- Conducts abnormal hematologic evaluations (J8)
- Conducts abnormal urinalysis evaluation (J7)
- Performs vaginal, otic and bone marrow cytologic evaluations (J11)

Year 2: Term 2

Course title: Hospital and career management

Course description: Students will discuss various aspects of a veterinary practice, including inventory control, crisis intervention, grief management, and personnel and client relations.

Learning outcomes:

- Discusses clinic inventory management (A11, C5)
- Discusses client issues including crisis intervention and grief management (L1, K6)
- Discusses the importance of a commitment to lifelong learning by maintaining professional certification (new LO)
- Discusses human resource issues (new LO)
 - interpersonal communication among staff/supervisor
 - job interviews
 - client education materials
 - workers rights

- wages & benefits

Course title: Anaesthesia and surgical nursing lab

Course description: Students will practice their surgical nursing and anesthesia skills under veterinary supervision on live animals in a clinical setting.

Learning outcomes:

- Prepares patients for surgical procedures (F1)
- Assists veterinary surgeon during surgery (F2)
- Performs permanent identification with a microchip and tattoo (G3)
- Administers and monitors anaesthesia under direct supervision by a veterinarian F4
- Performs duties of a circulating surgical nurse pre-surgery, during surgery and post-surgery F1, F2, F3)

Course title: Emergency medicine and critical care

Course description: Students will discuss the clinical signs and treatment of emergencies related to various body systems.

Learning outcomes:

- Discusses emergencies related to various body systems
- Recognizes and discusses the treatment of shock

Course title: Avians, exotics and laboratory animals

Course description: Students will learn basic husbandry, common nursing care procedures and diseases of rabbits, rodents, ferrets, birds and reptiles . Students will follow regulations and protocols involved in working with laboratory and exotic species.

Learning outcomes:

- Provides safe and effective care for exotic animals such as ferrets, birds, and reptiles (H2, H3)

- Performs necropsy procedures (J12)
- Implements research protocols (H1)
- Provides safe and effective care for common animals used in laboratory research (H2)

Course title: Reproduction in common domestic species

Course description: Students will study the normal anatomy and physiology of the male and female of each of these species including normal and abnormal reproductive behaviour and gestation events. Students will also study breeding patterns and management.

Learning outcomes:

- Discusses normal and abnormal male anatomy (new LO)
- Discusses normal and abnormal female anatomy (new LO)
- Discusses pregnancy diagnosis
- Discusses the management of pregnancy and dystocia (new LO)
- Discusses breeding patterns and management (new LO)
 - pedigree analysis

Course title: Nutrition

Course Description: This course is designed to acquaint students with the principles of nutrition. Students will discuss the normal role of nutrients in the body and the diseases that are caused by imbalances of these nutrients. Diets fed to normal animals at various lifestages will also be addressed, with an emphasis on dogs and cats with and without disease problems.

Learning outcomes:

- Develops and communicates hospital nutrition protocols (B6, B7)
- Feeds appropriate diets based on key nutritional factors in relation to body systems (G4, G11)

Course title: Practicum II

Course description: Students will spend two weeks in a veterinary hospital where they will practice clinical skills with an emphasis on anaesthesia and surgical nursing.

Learning outcomes:

- Provides care for sick hospitalized patients (G1, G2, G10, G11, L3, L7, L8)
- Practices AHT skills (new LO)

Course title: Practicum III

Course description: Students will spend three weeks in a veterinary hospital where they will practice all clinical skills.

Learning outcomes:

- Provides care for sick hospitalized patients (G1, G2, G10, G11, L3, L7, L8)
- Demonstrates a commitment to excellence through personal integrity (K7, K13)
- Demonstrates work/life balance by managing time and prioritizing tasks (K4, K5, K15)
- Demonstrates initiative, resourcefulness and critical thinking skills in order to solve problems (K9, K10, K11, K8, K14)
- Practices AHT skills (new LO)