## **Essential and Recommended Tasks List**

- Regular font text denotes didactic (knowledge-based) skills.
- *Italicized* text denotes hands-on (psychomotor) skills. Students are expected to physically perform these skills.
- Recommended (i.e. not essential) tasks are denoted by (NE).
- Skills indicated by the designation (GROUP) may be performed by a group of program students. The appropriate size of the group will be determined by the task being performed taking into account humane treatment of the subject animal. Each member of the group must play an active role in the completion of the task.

Instruction must be provided in all Essential Tasks. Show where, when and by whom this instruction is provided.

TASK	INCLUDED IN COURSE	INSTRUCTOR
OFFICE AND HOSPITAL PROCEDURES		
AND CLIENT RELATIONS		
Make appointments		
Demonstrate telephone etiquette		
Admit and discharge patients, take history		
Create and maintain client/patient records;		
prepare appropriate forms and certificates		
Perform basic veterinary medical record		
keeping procedures:		
Develop computer skills		
Be able to utilize common management		
software programs		
Be familiar with veterinary on-line services		
Perform basic filing of medical records,		
radiographs, lab reports, etc.		
Maintain x-ray, surgery, anaesthesia, radiology,		
laboratory and controlled substance logs		
Recognize and respond appropriately to		
veterinary medical emergencies		
Maintain basic cleanliness and orderliness of a		
veterinary facility (including hospital, clinic,		
practice, or laboratory)		

TASK	INCLUDED IN COURSE	INSTRUCTOR
COMMUNICATION		
<ul> <li>Develop effective client communication skills:</li> <li>Apply understanding of interpersonal skills and team dynamics in all aspects of the veterinary health care team</li> <li>Utilize appropriate interpersonal and public relations skills</li> </ul>		
<ul> <li>Recognize the legality of the veterinary-client-patient relationship</li> <li>Develop and provide client education in a clear and accurate manner at a level the client understands (i.e., oral and written form, including educational handouts)</li> <li>Apply crisis intervention/grief management skills with clients</li> </ul>		
<ul> <li>Understand and observe legal boundaries of veterinary health care team members</li> <li>Interact professionally with clients and fellow staff members</li> <li>Demonstrate a commitment to high quality patient care</li> <li>Respect and protect the confidentiality of client and patient information</li> </ul>		
Apply knowledge of provincial, federal, and local animal welfare regulations  Explain inadvisability of keeping wildlife as pets (NE)		
Write business letters and reports		
PHARMACY AND PHARMACOLOGY		
Recognize general types and groups of drugs, their uses and clinically relevant side effects.		
Demonstrate understanding of regulations governing over-the-counter and prescription drugs and controlled substances.		
Dispense medications from written and verbal orders		
Use weights and measures correctly		
Store, safely handle and dispose of biologics		
and therapeutic agents, pesticides and		

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hazardous wastes	
Handle controlled substances correctly	
Perform inventory control procedures	
Prepare medications & reconstitute vaccines	
Differentiate between abnormal and normal	
responses to medication	
Use and explain appropriate routes and methods	
of drug and vaccine administration	
EXAMINATION ROOM PROCEDURES	
Recognize common domestic animal species and	
breeds	
Know normal values of temperature,	
pulse and respiration for dog, cat, horse and cow	
Obtain accurate patient data (temperature, pulse	
and respiration) for dog, cat, horse and cow	
Auscultate heart and lungs (dog, cat, horse and	
cow)	
Restrain small animals:	
Place in, and remove small animals from cages	
Apply dog safety muzzle	
Apply Elizabethan collar	
Apply restraint pole (GROUP)	
Restrain small animals for procedures	
Restrain horses:	
Halter, tie and lead horses	
Apply twitch (GROUP)	
Restrain cattle:	
Apply bovine halter	
Apply bovine tail restraint	
Apply nose tongs/leads (NE)	
Safely operate cattle chute ( GROUP)	
Restrain sheep and swine (NE)	
SURGICAL NURSING AND ANESTHESIA	
Perform Surgical Preparations	
Prepare surgical equipment/supplies	
Sterilize instruments & supplies using appropriate	
methods	
Identify and know proper use for instruments	
Identify common suture materials, types and size	
Prepare gowns, masks, gloves and drapes	
Prepare surgical sites using aseptic techniques	
Operate & maintain autoclaves	
operate & maintain autociaves	1

Provide operating room sanitation & care	
Position patients (common procedures)	

TASK	INCLUDED IN COURSE	INSTRUCTOR
Perform as Surgical Assistant or Circulating		
Nurse		
Properly pass instruments and supplies		
Maintain proper operating room conduct and		
asepsis		
Assist with care of exposed tissues and organs		
Keep operative records		
Operate/maintain/suction and cautery machines		
Operate and maintain fibre optic equipment		
Perform Post-Surgical Procedures		
Perform post-surgical clean-up		
Equipment		
Surgical room or area		
<ul> <li>Instruments</li> </ul>		
Patient		
Personnel		
Proper disposal of hazardous medical waste		
Provide post-operative care:		
pain management		
wound management		
discharge instructions		
suture removal		
Maintain and operate anesthetic delivery and		
monitoring equipment:		
pulse oximeter		
esophageal stethoscope		
• electrocardiograph (e.g., recognize abnormal		
rhythms/audible sounds, properly apply leads)		
anesthetic machines, including rebreathing		
systems, non-rebreathing systems, induction		
chambers and masks		
endotracheal tube		
ambu bag		
scavenging systems		
oxygen sources		
<ul> <li>respiratory monitors</li> </ul>		
<ul> <li>blood pressure monitoring devices</li> </ul>		
<ul> <li>laryngoscopes</li> </ul>		
• ventilator (NE)		
defibrillator (NE)		

TASK	INCLUDED IN COURSE	INSTRUCTOR
Assist with Anaesthesia under Supervision		
Calculate dosages of anesthetic-related drugs		
Administer anesthetic-related drugs by		
• Injection		
Mask		
Induction chamber		
Endotracheal tube		
Perform endotracheal intubation		
Maintain general anesthesia		
Use clinical signs and monitoring equipment to		
monitor patient status in all stages of anesthesia		
Evaluate patient and implement and evaluate pain		
management protocols		
Recognize anaesthetic emergencies and perform		
resuscitation procedures		
Calculate and administer anesthetic antagonists		
Calculate and administer other emergency drugs		
Perform CPR on appropriate animal models		
LARGE AND SMALL ANIMAL NURSING		
Provide routine record-keeping, care, and		
observation of hospitalized patients		
Demonstrate understanding of permanent		
identification methods including microchipping		
Perform microchip implantation (GROUP)		
Follow patient and personnel safety protocols		
Understand key nutritional factors in disease		
conditions and be familiar with therapeutic foods		
Develop and communicate hospital nutrition		
protocols		
Demonstrate understanding of		
breeding/reproduction techniques		
Perform sanitation procedures for animal holding		
and housing areas		
Maintain equipment used in animal care and		
nursing		
Perform venipuncture for treatment or blood		
sampling		
Cephalic (dog, cat)		
<ul> <li>Jugular (dog, cat, horse, ruminant)</li> </ul>		

•	Saphenous (dog)	
•	Coccygeal (cow) (NE)	
•	Femoral (cat) (NE)	

TASK	INCLUDED IN COURSE	INSTRUCTOR
Administer parenteral medications		
• Intravenous (dogs, cats, ruminants, horses)		
Subcutaneous (dogs, cats, ruminants)		
• Intramuscular (dogs, cats, horses) (ruminants		
NE)		
<ul> <li>Intradermal (ruminants, dogs)(NE)</li> </ul>		
Administer fluid therapy		
<ul> <li>Administer subcutaneous fluids</li> </ul>		
<ul> <li>Place intravenous catheters (cephalic –</li> </ul>		
small animal, saphenous – dog, jugular NE)		
<ul> <li>Maintain catheters</li> </ul>		
<ul> <li>Determine and maintain fluid infusion rate</li> </ul>		
<ul> <li>Monitor patient hydration status</li> </ul>		
<ul> <li>Develop familiarity with fluid delivery</li> </ul>		
system		
Administer enteral medications		
Balling gun (ruminant)		
Dose syringe (ruminant, horse)		
Gastric intubation (small animal) (GROUP)		
Hand pilling (dog, cat)		
Oral speculum & stomach tube(ruminant) (NE)		
Naso-gastric intubation (small animal, horse)		
(NE)		
Perform small animal dentistry		
Perform routine dental prophylaxis (manual		
and machine)		
Husbandry		
Understand therapeutic bathing, basic grooming,		
and dipping of small animals.		
Trim nails (dog, cat, exotics and birds)		
Clean sheath (horse) (NE)		
Therapeutics		
Express canine anal sacs		
Clean and medicate ears (dog, cat)		
Administer intra mammary treatment (mastitis		
therapy only) (NE)		

Administer enema (GROUP)		
TASK	INCLUDED IN	INSTRUCTOR
	COURSE	
Apply topical medication to eye		
Perform ocular diagnostic tests		
<ul> <li>Perform fluorescein staining and Schirmer tear</li> </ul>		
test		
Perform ocular tonometry		
Apply equine leg & tail wraps		
Apply and remove bandages, splints and sutures		
Remove casts (NE)		
Explain physical therapy (hydrotherapy,		
Post-operative, orthopaedic, neurological) (NE)		
Explain care of recumbent patient		
Maintain chest, tracheotomy and pharyngostomy		
tubes (NE)		
Apply established emergency protocols and		
maintain emergency medical supplies		
Perform first aid and cardiopulmonary		
resuscitation (simulation acceptable)		
Use resuscitation bag		
Apply emergency splints and bandages		
Collect and cross-match blood		
(GROUP)		
Perform blood typing and blood transfusions (NE)		
Explain principles of orphan animal care (NE)		
Demonstrate understanding of nursing care of		
newborns		
Demonstrate understanding of wound		
management and abscess care		
Sample collection		
Collect urine sample		
Catheterize male dogs (GROUP)  Called a side desired and a side d		
Collect voided urine sample     Data to bladden (or all prices)		
Palpate bladder (small animal)  Parform protection (small animal) (GROUP)		
Perform cystocentesis (small animal) (GROUP)  Call act and accepting a skin accepting as		
Collect and examine skin scrapings		
Prepare mare for vaginal examination &		
cervical culture (NE)		
LABORATORY ANIMAL PROCEDURES		
Explain basic principles of animal research		
protocols		

Rodents and Rabbits	
(Rodents include rats, mice, guinea pigs, hamsters,	
and gerbils. Essential skills must be performed	
using one or more of these species).	
Recognize common species/breeds of rodents and	
rabbits	
Restrain and determine sex of common	
species/breeds of rodents and rabbits	
Perform basic care procedures, e.g. feeding,	
watering, breeding, identification and handling	
Administer drugs or medicaments, using	
appropriate sites and routes	
Collect blood samples (GROUP)	

TASK	INCLUDED IN COURSE	INSTRUCTOR
Perform oral dosing (GROUP)		
Know anaesthetic and recovery procedures		
Explain common disease signs		
Clean & medicate ear (rabbit) (NE)		
Avian and Exotic Procedures		
(Includes birds, reptiles amphibians and ferrets)		
Recognize and restrain common species of birds		
Recognize and restrain reptiles, amphibians and ferrets ( NE)		
Demonstrate understanding of basic avian and		
exotic animal care procedures (e.g., feeding,		
watering, basic grooming (beak, wing, nail		
trimming) breeding, identification, caging &		
aquarium care)		
Perform a physical examination (bird)		
Perform a physical examination (reptiles, amphibians and ferrets)(NE)		
Administer or inject drugs using appropriate		
sites & routes for each species (NE)		
Collect appropriate body tissues or fluids		
from live animals and perform laboratory		
procedures (NE)		
Anaesthetize avian and exotic animals (NE)		
RADIOLOGY AND DIAGNOSTIC IMAGING		
Implement & follow recommended radiation safety		
Measures		
Implement radiographic quality control measures		

Prepare and use radiographic technique charts	
(GROUP)	
Take diagnostic radiographs using stationary and	
portable radiographic equipment (film or digital)	
Position and take radiographic images of	
horses, dogs and cats	
Position and take radiographic images of birds	
(NE)	
Perform radiographic techniques utilized in	
assessing canine hip dysplasia (GROUP)	
Demonstrate an understanding of the	
modifications of diagnostic imaging techniques	
as they apply to birds, rodents, rabbits and	
exotics	
Create diagnostic dental radiographic images	
Perform various contrast media studies (perform	
one of: GI series, pneumocystogram, intravenous	
urogram or other) (GROUP)	
Process diagnostic radiographs	
Automatic processing of exposed film (hand)	
and digital are NE)	
Label, file & store film	
Complete radiographic logs, reports, files and	
records.	

TASK	INCLUDED IN	INSTRUCTOR
	COURSE	
Demonstrate proper maintenance of radiographic		
equipment		
<ul> <li>Recognize faulty equipment operation</li> </ul>		
Use and care of ultrasound equipment (NE)		
Use and care of endoscopic equipment (NE)		
LABORATORY PROCEDURES		
Prepare laboratory samples for shipment		
Prepare laboratory samples for diagnostic analysis		
Maintain laboratory equipment		
Perform quality control procedures		
Explain basic principles of laboratory safety		
Urinalysis		
Perform urinalysis:		
<ul> <li>Determine physical properties (eg. color,</li> </ul>		
clarity, specific gravity)		

Test chemical properties		
Examine and identify sediment		
TASK	INCLUDED IN COURSE	INSTRUCTOR
Hematologic Evaluations		
Collect samples		
Perform CBC:		
Haemoglobin		
Hematocrit		
Total protein (refractometer)		
White cell count		
Red cell count		
Microscopic examination of blood films:		
1. prepare blood film and stain		
2. perform leukocyte differential: normal vs.		
abnormal		
3. perform erythrocyte morphologic evaluation,		
normal vs. abnormal		
4. estimate platelet count		
5. calculate absolute values		
6. perform white blood cell correction for		
nucleated red cells		
Perform reticulocyte count		

TASK	INCLUDED IN COURSE	INSTRUCTOR
Calculate haematologic indices		
Coagulation tests – perform one of the following (GROUP):		
Buccal mucosal bleeding time, activated clotting		
time (ACT), prothrombin time (PT), partial		
thromboplastin time (PTT), fibrinogen assay		
Identify blood parasites:		
Dirofiliaria sp/Acanthocheilonema (formerly		
Dipetalonema sp) – direct, antigen kit (Knots,		
filter – both NE)		
Hemotropic Mycoplasma sp		
(Hemoplasmas)(formerly Haemobartonella sp		
and Eperythrozoon sp)		
Perform blood chemistry tests (BUN, glucose,		
common enzymes)		
Collect and prepare serum samples and perform		
serologic tests (ELIZA, slide/card agglutinations)		

Collect samples	
Test for external parasites	
1. Prepare sample	
2. Identify: - Fleas	
- Flies	
- Lice	
- Mites	
- Ticks	
Test for internal parasites	
1. Prepare floatation solutions (NE)	
2. Perform faecal flotations	
3. Perform faecal sedimentation	
4. Perform direct smears	
5. Scotch tape retrieval of pinworm ova (NE)	
6. Baermann tests	
Identify common parasitic forms, their ova and	
apply knowledge of common parasite life cycles	
- Nematodes	
- Trematodes	
- Cestodes	
- Protozoa	
Perform coprologic tests (NE)	
Perform Microbiologic Procedures	
Collect representative samples	
Culture bacteria & perform sensitivity tests	
Identify common animal pathogens using	
commercially available media and reagents	
(GROUP).	
Perform common biochemical tests (GROUP)	
Perform staining procedures	
Conduct mastitis testing (CMT, bacterial culture)	
(GROUP)	

TASK	INCLUDED IN COURSE	INSTRUCTOR
Perform Cytologic Procedures		
Collect, prepare and evaluate ear cytology		
Collect, prepare and evaluate canine vaginal smears (GROUP)		

Assist in collecting, preparing and appropriately	
evaluating transudate, exudates & cytologic	
specimens (joint, cerebrospinal, airway and	
body cavity) (NE)	
Perform fine needle tissue aspirates and impression	
smears (NE)	
Prepare and stain bone marrow specimens	
(differentiate between benign and malignant) (NE)	
Perform semen evaluation (NE)	
Explain timing and types of pregnancy testing (NE)	
Assist with artificial insemination (NE)	
Necropsy Procedures	
Perform a postmortem examination or dissection on	
non-preserved animal (GROUP)	
Collect samples, store and ship according to	
laboratory protocols (GROUP)	
Explain how to handle rabies suspects	
& samples safely	
Handle disposal of dead animals (NE)	
Perform euthanasia procedures (NE)	