



DEPARTMENT OF ANIMAL HEALTH
COURSE OUTLINE – FALL 2014
AH345 – CLINIC PROCEDURES 1

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OFFICE

HOURS: 9:00am – 4:00pm unless otherwise posted

PREREQUISITE(S)/COREQUISITE:

Students must complete and pass AH243, AH244, AH247 & AH248.

Co-Requisites: AH 346, AH 342, AH 347 & AH 340 04/11

REQUIRED TEXT/RESOURCE MATERIALS:

- None

CALENDAR DESCRIPTION:

Review of skills learned throughout the program by performing the tasks and responsibilities of an AHT in a clinic and pharmacy setting.

The student will perform reception duties, book, admit and discharge patients, perform laboratory tests, administer medications, monitor patients and discuss cases on rounds, maintain records, files and inventories and many other duties required of an AHT in a private practice. The student is expected to demonstrate teamwork and co-operation at all times.

CREDIT/CONTACT HOURS: 5.5/91

DELIVERY MODE(S): Lab

OBJECTIVES:

Clinic Rotations Upon successful completion of this Module, you will be able to complete clinic rotations from 8:00 am to 5:00 pm.

1. Apply and use policies and procedures manual.
2. Complete competencies lists - both small and large animal.
3. Complete and manage sanitation rotations.
4. Complete and process clinic appointments

Applied Anatomy Evaluations Upon successful completion of this module, you will be able to identify and describe anatomical structures of a live animal and to review basic anatomy of equine, bovine, canine and feline species.

1. Name various joints, bones, muscles groups and body regions as requested by the instructor
2. Describe verbally, the anatomical structures outlines in the study guide.
3. Perform flexion and extension techniques of a number of joints as specified by the study guide
4. Locate and describe landmarks for finding blood vessels as specified in the study guide
5. Trace the pathway of the flow of blood through the heart and the flow of urine in the urinary tract
6. Name and describe the location of structures of the male and female reproductive tracts
7. Name and identify structures of the respiratory and digestive systems

LAB: Collection of Urine and Vaginal Samples

Upon successful completion of this Module, you will be able to collect urine samples and vaginal swabs.

1. Prepare canine patient the night before.
2. Prepare feline patient the night before.
3. Perform TPR & asymmetry evaluation of patient.
4. Perform drug calculation and give sedation to patient.
5. Prepare materials for procedure.
6. Perform urinary catheterization of male canine: collecting a urine sample for evaluation.
7. Perform vaginal sample collection on female canine: preparing sample for future evaluation.
8. Assist with cystocentesis of feline patient.
9. Identify and use instruments/devices used in urinary catheterization, vaginal sample collection and cystocentesis.
10. Assist with recovery of patients and clean-up.

LAB: Small Animal Venipuncture

Upon successful completion of this Module, you will be able to perform venipuncture on an artificial small animal limb.

1. Practice intravenous injection.
2. Practice venous blood draw.
3. Practice IV catheter placement and methods of securing.

LAB: Canine Venipuncture and Intro to IV fluid therapy

Upon successful completion of this Module, you will be able to perform canine venipuncture.

1. Prepare canine patients the night before.
2. Perform TPR & asymmetry evaluation of patients.
3. Perform drug calculations and give sedation to patients.
4. Prepare materials for venipuncture procedure.
5. Identify and use instruments/devices used in venipuncture.
6. Perform cephalic catheterization; jugular and lateral saphenous venipuncture.
7. Assist with recovery of patients and clean-up.

LAB: Feline Venipuncture/Neuter Upon successful completion of this Module, you will be able to perform feline venipuncture.

1. Prepare feline patients the night before.
2. Perform TPR & asymmetry evaluations of the patients.
3. Perform drug calculations and give sedation to patients.
4. Prepare materials for venipuncture.
5. Identify and use instruments/devices used in venipuncture.
6. Perform jugular, cephalic, and femoral venipuncture.
7. Perform as an AHT during cat neuters.
Assist with recovery of patients and clean-up.

LAB: Intro to Anesthesia

Upon successful completion of this Module, you will be able to demonstrate and follow proper procedure for using a gas anesthetic machine for general anesthetic in dogs.

1. Recognize and demonstrate the different parts of the anesthetic machine and the oxygen supply to it, and how the rebreathing system is assembled for use.
2. Demonstrate and follow the leak testing procedure used for testing a rebreathing system.
3. Demonstrate pre-anesthetic dog examination and the administration of a pre-med.
4. Recognize and demonstrate the different induction techniques used in dog anesthesia.
5. Demonstrate and follow proper intubation procedures, including the endotracheal tube selection, preparation and installment with connection to the anesthetic machine.
6. Recognize and interpret the symptoms of the different stages of anesthetic depth.
7. Demonstrate the use of the different settings of flow meter, vaporizer, pop-off valve to influence the depth of anesthetic.
8. Demonstrate proper procedure for removing the animal from the anesthetic machine and extubation on awakening.
9. Demonstrate the use of an esophageal stethoscope and Doppler for patient monitoring.

LAB: Monitoring of Anesthesia

Upon successful completion of this Module, you will be able to perform and maintain general anesthesia monitoring for legal documentation in patient records.

1. Prepare canine patients the night before.
2. Perform TPR & asymmetry evaluations of the patients.
3. Perform drug calculations and give sedation to patient.
4. Prepare and use anesthetic monitoring equipment on patients.
5. Assist with recovery of patients and clean-up.

LAB: Feline Anesthesia

Upon successful completion of this Module, you will be able to demonstrate and follow proper procedure for using a gas anesthetic machine for general anesthetic in cats.

1. Recognize and demonstrate the different parts of the anesthetic machine and the oxygen supply to it, and how the Bain system is assembled for use.
2. Demonstrate and follow the leak testing procedure used for testing a Bain system.
3. Demonstrate pre-anesthetic cat examination and the administration of a pre-med.
4. Induce cats using a mask and gas, or injectable anesthesia.
5. Intubate cats correctly and carefully, being aware of the danger of laryngospasm.
6. Assist with recovery of patients and clean-up.

LAB: Sterile Technique #1

Upon successful completion of this Module, you will be able to demonstrate methods used in preparing the operating room, gown packs, drape packs and instrument packs for use in aseptic surgery.

1. Prepare the operating room for aseptic surgery.
2. Identify components of a gown pack, drape pack and small animal instrument pack.
3. Prepare a gown pack, drape pack and small animal instrument pack.
4. Open each pack aseptically with no break in sterility.
5. Operate and maintain the autoclave.

LAB: Sterile Technique #2

Upon successful completion of this Module, you will be able to demonstrate and explain the fundamentals of gowning and gloving techniques adhering to principles of asepsis.

1. Apply and remove cap and mask aseptically.
2. Perform a personal scrub.
3. Demonstrate and follow aseptic gowning procedures.
4. Demonstrate and follow aseptic gloving procedures.

Lab: Sterile Technique #3 - Scrub Nurse

Upon successful completion of this Module, you will be able to prepare and perform as Scrub Nurse.

1. Organize materials while waiting for anesthesiologist.
2. Express the patient's bladder as soon as the patient is stabilized under anesthetic.
3. Prepare and apply patient for OVH shave, vacuuming and lint rolling.
4. Perform surgical scrub of patient.
5. Transport patient to the O.R.
6. Perform final scrub.
7. Assist Surgical Assistant.
8. Assist in lab clean up and preparation of surgical packs.

Lab: Sterile Technique #3 - Surgical Assistant

Upon successful completion of this Module, you will be able to prepare and perform as Surgical Assistant.

1. Prepare appropriate surgical packs.
2. Prepare the O.R.
3. Choose and prepare all equipment.
4. Prepare and perform personal scrub, gowning and gloving
5. Prepare instrument tray
6. Perform draping of the patient.
7. Assist the surgeon.
8. Assist in lab clean up.
9. Prepare and autoclave packs for the next day.

LAB: Review Lab for Small Animal Competencies

Upon successful completion of this Module, you will be able to demonstrate and display proficiency in the subjects of the small animal labs given in the fall, with the ability to improve those areas you feel unsure of as yet

1. Recall the topics of previous labs you feel unsure about
2. Practice those areas you feel unsecure on, and any other you would want to revisit
3. Demonstrate adequate proficiency in those areas of uncertainty

LAB: Small Animal Competencies

Upon successful completion of this Module, you will be able to demonstrate adequate knowledge and execution of all subjects practiced in the small animal labs

1. demonstrate all aspects of giving a small animal general anesthetic, including but not limited to pre-anesthetic exam, pre-medication, induction, monitoring and maintaining a surgical plane of anesthetic, disconnection and recovery, including aftercare; sanitation rotations

LAB: Sheep Upon successful completion of this learning outcome guide, you will be able to perform a physical exam, provide proper restraint and proper administration of medications, to the ovine patient.

LAB: Equine Vaccination: Upon successful completion of this module, you will be able to perform equine vaccination, deworming and blood collection utilizing safety precautions.

LAB: Cattle Handling: Upon successful completion of this module, you will be able to perform various procedures involved in processing cattle.

LAB: Goats Upon successful completion of this learning outcome guide, you will be able to perform a physical exam and a hoof trim on a goat, as well as discuss a proper vaccine protocol.

LAB: Bovine Orals & Parenterals Upon successful completion of this learning outcome guide, you will be able to administer/assist with, oral and parenteral treatments/medications of cattle.

LAB: Equine Dental Upon successful completion of this learning outcome guide, you will be able to discuss the dental care of horses with clients, and be able to assist with Equine Dental procedures.

LAB: Bovine Epidurals/IV Upon successful completion of this Learning Outcome Guide, you will be able to perform caudal epidural analgesic injection and perform and maintain intravenous injection and fluids in the bovine and/or equine patient.

LAB: Bovine Paravertebral Anesthesia Upon successful completion of this Learning Outcome Guide, you will be able to perform an approved approach for anesthesia of the flank in the bovine patient as preparation for common standing abdominal surgical procedures.

LAB: Special Bovine Anesthesia Techniques Upon successful completion of this Learning Outcome Guide, you will be able to observe and/or perform other pain control techniques used as preparation for common standing surgical procedures in bovine practice.

Large Animal Evaluation Upon successful completion of this Learning Outcome Guide, you will be able to demonstrate your ability to appropriately and efficiently perform AHT duties relating to common large animal procedures in a mixed/large animal clinic.

TRANSFERABILITY: ** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A⁺	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A⁻	3.7	80 – 84	FIRST CLASS STANDING
B⁺	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B⁻	2.7	70 – 72	
C⁺	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C⁻	1.7	60 – 62	MINIMAL PASS*
F	1.3	55 – 59	FAIL
	1.0	50 – 54	
	0.0	0 – 49	
WF	0.0	0	FAIL, withdrawal after the deadline

*overall grade average has to be 2.0 or higher to be successful in the program.

STUDENT EVALUATION:

Students are evaluated on timeliness, sanitation, presentation, clinic duties, medical records, conflict resolution, team work and attitude. 80% or above is needed for a passing mark. Students must also complete both small and large animal competency lists. These lists may include a written evaluation of the knowledge acquired during the labs. There will be several practical evaluations during the progression of this course. Failure of a practical evaluation will result

in a minimum 15% deduction or failure of the course at the instructors' discretion.

STUDENT RESPONSIBILITIES: Enrolment at Grande Prairie Regional College assumes that the student will become a responsible citizen of the College. As such, each student will display a positive work ethic, take pride in and assist in the maintenance and preservation of Institute property, and assume responsibility for his/her education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting instructor expectations concerning attendance, assignments, deadlines, and appointments.

ADDITIONAL INFORMATION:

Any material handed in to an instructor must be in permanent blue or black pen, no white out, medical corrections only. Disruptive behavior in the class will result in the student being excused from the class – this includes use of cell phones or any hand held equipment that has not been approved by the instructor.

Any student wishing to see a marked quiz or midterm must make an appointment with the instructor to view or go over. Final exams are not available to be viewed by a student.

For your safety, the safety of others, and the safety of the animals there will be zero tolerance of anyone showing up for clinic under the influence of alcohol or other medication which may cause physical impairment or disruptive behaviour. If you are on a standard or prescribed medication, please consult your instructor before the lab. Attendance is mandatory at all clinic/lab sessions, valid reason for absence is required - the instructors must be notified prior to the clinic/lab that will be missed. Clinic/lab rotations missed without a valid excuse will result in a 8% deduction for a first offence, 10% for second and following offences as per the GPRC Clinic Policy and Procedures Manual. Having a valid reason does not change the student's responsibility to acquire the information dispensed during clinic/ lab, nor the student's obligation to finish required assignments/quizzes/tests or achieve competencies practiced. A student who misses two or more clinic/lab sessions without prior

approval of absence may receive an incomplete or failure grade. If a student group does not have the required clinic/lab set up completed by the time the clinic/lab is to commence up to 5% may be deducted, from each of the group member's grade, for every occurrence of this nature. Failure to complete the required clean-up after each clinic/lab will result in 5% deducted from each group member's final grade. If an anesthetist does not adequately prepare the animal for the required lab 8-10 % will be deducted and the clinic/lab may be cancelled. If a student does not come prepared for the clinic/lab they will be excused from the clinic/lab and deducted as missed without a valid reason. If a student wishes to reschedule attendance to a clinic/lab (ie: join another group), they are required to seek permission from the instructors and coordinator prior to the scheduled clinic/lab. Other deductions apply according to the GPRC Clinic Policy and Procedures Manual.

STATEMENT ON PLAGIARISM AND CHEATING:

Please refer to pages 49-50 of the College calendar regarding plagiarism, cheating and the resultant penalties. These are serious issues and will be dealt with severely.

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