



## DEPARTMENT OF ANIMAL HEALTH TECHNOLOGY

### COURSE OUTLINE – WINTER 2012

### AH 455 – CLINICAL PROCEDURES II

**INSTRUCTOR:** TBA  
Varies

**PHONE:** [Click here to enter text.](#)

**OFFICE:** FAS

**E-** [Click here to enter text.](#)

**MAIL:**

**OFFICE**

**HOURS:** 8-5 or as posted

#### **PREREQUISITE(S)/COREQUISITE:**

Students must complete and pass AH340, AH343, AH345, AH 346 & AH 347.

#### **REQUIRED TEXT/RESOURCE MATERIALS:**

No books at this time

#### **Student Equipment & Supplies**

- Stethoscope
- Watch with functional seconds display
- Appropriate clinic attire: scrubs or equivalent, clean shoes with covered heel and toe
- Clean coveralls
- Warm winter jacket and boots
- Calculator

**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 cooperation at all times.

**CREDIT/CONTACT HOURS:**

134 hours contact time  
8 Credits

**DELIVERY MODE(S):**

Lecture and Lab components

**OBJECTIVES (Optional):****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:**

Enrolment in the Animal Health Technology Program at Fairview College Campus 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.

## Student Evaluation

**Student are evaluated on timeliness, sanitation, presentation, clinic duties, medical records, and attitude. 80% or above is needed for a passing mark. Students must also complete both the large and small animal competencies lists. These competencies lists may include a written evaluation of the knowledge required during the labs.**

### GRANDE PRAIRIE REGIONAL COLLEGE

#### GRADING CONVERSION CHART

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

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

## **EXAMINATIONS and Other Information:**

### **\* Learning Outcome Guides**

#### **A. Clinic Procedures**

##### **II**

Upon successful completion of this Learning Outcome Guide, you will be able to demonstrate clinical and nursing procedures and general sanitation required of an AHT in a mixed animal practice.

1. complete Fairview College Competencies Check List as clinical situations allow
2. demonstrate positive professional deportment in a clinic setting
3. demonstrate communication, team work and interpersonal skills appropriate to a professional environment
4. demonstrate initiative and willingness to complete tasks

#### **B. Lab: Local Anesthetic Procedures - Cattle**

Upon successful completion of this Learning Outcome Guide, you will be able to demonstrate and explain a number of auxiliary procedures for local anesthesia and restraint in bovine veterinary practice

1. explain the technique (method) for the following anesthetic procedures: Peterson eye block, infusion retrobulbar eye block, intravenous limb block, ring block of the lower leg, interdigital nerve block, ring block of the teat, infusion block of the teat canal and inverted "L" block for ventral abdominal surgery
2. discuss the indications for the following local anesthetic procedures: Peterson eye block, intravenous limb block, interdigital block and ring block of the teat
3. describe the site for a Peterson eye block

4. demonstrate and explain the Reuff's and McBurney's methods of casting ropes on a cow
5. describe the aftercare of a digital amputation on a cow

### **C. Lab: Cattle Hoof Trimming**

Upon successful completion of this Learning Outcome Guide, you will be able to identify and discuss various hoof trimming instruments and their use

1. operate a large animal tilt table and state safety precautions for its use
2. discuss other restraint methods for bovine hoof trimming
3. identify common hoof trimming instruments for cattle
4. discuss general principles of properly trimming the bovine hoof
5. recognize signs to prevent trimming the hoof too deep or too short

### **D. Lab: Breeding Soundness Evaluation - Bulls**

Upon successful completion of this Learning Outcome Guide, you will be able to discuss and apply principles used in the Breeding Soundness Evaluation of male animals (bulls)

1. discuss the impact of age, scrotum circumference and the four different collecting methods of semen samples in the bull
2. recognize and create the "check list" items needed during Breeding Soundness Evaluations
3. discuss the principle behind the "Live/Dead" stain, assesment and classification of gross motility, and factors that may adversely affect semen collection, both motility and/or morphology
4. discuss the power magnification used in morphology

- assesment, and five possible head defects and five possible mid-piece or tail effects which may occur in sperm cells
5. discuss and use the breeding soundness evaluation form established by the WCABP and the minimal standards required to classify a bullas "satisfactory" under this evaluation system

#### **E. Lab: Equine Castration**

Upon successful completion of this Learning Outcome Guide, you will be able to assist with an equine castration

1. assist with preparation of an equine castration, including site set-up and equipment and drugs used
2. assist with the restraint and positioning of the horse before, during and after the surgery
3. assist with the induction and monitoring of the anesthetic, and have a familiarity with the drugs used during this type of a procedure in the horse
4. assist the surgeon during the surgery, and administer the appropriate drugs for aftercare
5. discuss common complications after castration in the horse

#### **F. Large Animal Review and Evaluations Part 1**

Upon successful completion of this Learning Outcome Guide, you will be able to demonstrate some of the competencies learned during the fall and winter labs

1. demonstrate some of the competencies learned in the Bovine orals and parentals lab
2. demonstrate some of the competencies learned during the Large animals restraint and IV techniques for cattle lab
3. demonstrate some of the competencies learned during the Bovine castration and dehorning lab

## **G. Large Animal Review and Evaluations Part 2**

Upon successful completion of this Learning Outcome Guide, you will be able to demonstrate some of the competencies learned during the fall and winter labs

1. demonstrate some of the competencies learned during the Large animal restraint and IV techniques for cattle
2. demonstrate some of the competencies learned during the Bovine epidural lab
3. demonstrate some of the competencies learned during the Paravertebral anesthesia lab
4. demonstrate some of the competencies learned during the Bovine laparotomy lab
5. demonstrate some of the competencies learned during the Local anesthetic procedures lab

## **H. Large Animal Review and Evaluations Part 3 -**

### **Calf**

Upon successful completion of this Learning Outcome Guide, you will be able to demonstrate some of the competencies learned during the fall and winter labs

1. demonstrate some of the competencies learned during the Calf restraint and orals lab
2. demonstrate some of the competencies learned during the Calf IV lab

## **I. LAB: Canine Neuter**

Upon successful completion of this Learning Outcome Guide, you will be able to perform AHT duties for canine neuters.

1. demonstrate and follow the different preparations for the patient, anesthesia and instruments.
2. demonstrate and explain the premedication given to the



- patient.
3. demonstrate and follow standard preparation procedure for site preparation.
  4. demonstrate assistance procedures required during surgery.
  5. demonstrate and follow appropriate recovery & aftercare for the patient.

**J. LAB: Feline IV Fluid Therapy**

Upon

successful completion of this Learning Outcome Guide, you will be able to perform and maintain intravenous fluid therapy in the feline patient.

1. prepare the feline patient the night before.
2. perform TPR and asymmetry evaluations of the patients.
3. perform drug calculations and sedation of the patient.
4. prepare and use surgical maintenance IV fluid calculations for the patients.
5. prepare materials for IV fluid delivery of patient.
6. identify and use instruments/equipment used in IV fluid delivery.
7. perform IV catheterization and IV fluid delivery.
8. assist with recovery of patient and clean-up.

**K. Lab: Canine Spay**

Upon successful completion of this Learning Outcome Guide, you will be able to perform AHT duties for a canine ovariohysterectomy

1. demonstrate the set up for a dog spay, including asymmetry exam, anesthetic machine set-up and

- instrument preparation
2. demonstrate the immediate preparations, including calculating and administering of premedication, IV catheterization and calculation of fluid administration, anesthetic parameters and other drugs administered
  3. demonstrate proper induction, maintenance, monitoring, and recovery of a general anesthetic
  4. demonstrate and follow standard preparation procedure for the site preparation and transportation
  5. demonstrate and follow proper procedure during surgery assistance
  6. demonstrate and follow appropriate aftercare for the patient, including pain assessment and wound aftercare
  7. demonstrate and follow proper documentation of the procedure, including updating medical file, surgery log and restricted drug use logs

**L. LAB: Orthopedic Prep**

Upon successful completion of this Learning Outcome Guide, you will be able to demonstrate and display surgical assistant and surgical scrub techniques employed in orthopedic surgery.

1. prepare the canine patient the night before.
2. perform pre-anesthetic exam and bloodwork
3. perform drug calculations and sedation of the patient.
4. prepare and perform IV catheterization and IV fluid delivery.
5. demonstrate and follow standard preparation procedure for site preparation.
6. demonstrate draping procedure as required.

7. demonstrate and follow appropriate aftercare for the patient.

### **M. Lab: Review Lab for Small Animals**

Upon successful completion of this Learning Outcome Guide, you will be able to demonstrate and display proficiency in the subjects of the small animal labs given in the winter, with the ability to improve those areas as required.

1. recall the topics of previous labs you feel require further persual.
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.

### **N. Small 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 dog and cat procedures in a small animal clinic

1. demonstrate any competencies not previously signed off on your small animal or anesthetic and surgical assistance lists
2. demonstrate your ability to combine all the required competencies to achieve the continuity of procedures required in a small animal practice

### **O. Anesthetic Emergency Lab**

Upon successful completion of this Learning Outcome Guide, you will be able to demonstrate and explain procedures used to prevent and treat cardiac and/or respiratory arrest or other anesthetic emergencies in dogs or cats

1. discuss common effects from stress put on clinic personel

- during an emergency
- 2. demonstrate and explain common procedure during a respiratory arrest
- 3. demonstrate and explain common procedures during a cardiac and respiratory arrest, with one and more people available

**P. Clinic Rotations**

Upon successful completion of this Learning Outcome Guide, you will be able to complete clinic rotations from 7:30 am to 5:00 pm.

- 1. apply and use policies and procedures manual
- 2. complete competencies lists
- 3. complete and manage sanitation rotations
- 4. complete and process clinic appointments

**Q. Anesthetic support during procedures**

Upon successful completion of this Learning Outcome Guide, you will be able to demonstrate the safe administration of a general anesthetic for different procedures in small animals, using both the rebreathing and non-rebreathing system

- 1. demonstrate a pre-anesthetic examination on a properly prepared dog, including TPR, blood and urinalysis, fasting rules and bathing
- 2. demonstrate the correct assembly, working, testing and general care of the anesthetic machine.
- 3. demonstrate the calculation and correct administration of pre-med medication, a pre induction check-up, appropriate anesthetic induction, maintaining a surgical plane through the monitoring of the patient and use of correct Oxygen

- flowrates and vaporizer settings, recovery and extubation.
4. demonstrate and explain appropriate responses during possible problems that may occur during anesthetics, including the animal not being in an appropriate depth of anesthesia (too light or too deep)
  5. demonstrate good recording technique throughout the procedure resulting in good documentation of the anesthetic procedure.

## 9. Additional Information

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 AND the instructor(s) 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. 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 practice competencies. 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 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 clinic schedule.

For further clarification of deductions and grading, see the Clinic Rotation Policies & Procedures Manual.

## **STUDENT RESPONSIBILITIES:**

### **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.

### **COURSE SCHEDULE/TENTATIVE TIMELINE:**

\*overall gradepoint average has to be 2.0 or higher to be successful in the AHT program.

Created by: <Instructor Name>      Date:

Signature:

Approved by: Trisha Holubowich      Date:

Signature:

