



**DEPARTMENT OF ANIMAL SCIENCE**

**COURSE OUTLINE – FALL 2018**

**AH345 CLINICAL PROCEDURES I – 2(0-0-5.5) 88HOURS**

**16 Weeks**

<b>INSTRUCTOR:</b>	Christy Barlund, DVM Chris Mizzi, DVM Bonnie Danielson- Keller, RVT Tiffany Duncan, RVT Susan Klassen, DVM Rhonda Shaw, RVT	<b>PHONE:</b>	780 835-6701 780 835-6617 780 835-6686  780 835-6779 780-835-6633 780-835-6702
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<b>OFFICE HOURS:</b>	See posted schedules		

**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.

**PREREQUISITE(S)/COREQUISITE:**

- Must be registered in the GPRC Animal Health Technology Program
- PREREQUISITE AH141, AH173, AH240, AH246,
- COREQUISITE AH340, AH342, AND AH348

**REQUIRED TEXT/RESOURCE MATERIALS:**

None required, handouts supplied as needed

**DELIVERY MODE(S):**

Lab and clinic rotation components

**COURSE OBJECTIVES/LEARNING OUTCOMES:**

**See posted lab and clinic schedule**

- Sterile Prep #1
  - Upon successful completion of this Module, you will be able to describe and demonstrate the appropriate use of surgical instruments and supplies; prepare facilities equipment for aseptic procedures.
- Sterile Prep #2
  - Upon successful completion of this Module, you will be able to prepare and perform aseptic surgical scrub, describe and demonstrate appropriate operating room conduct and maintain operating room asepsis
- Urine and Vaginal Sample Collection
  - Upon successful completion of this Module, you will be able to describe and demonstrate the collection of urine samples from a dogs and cats and perform canine vaginal sample collection.
- Applied Anatomy Evaluation
- Canine Venipuncture and Intro to IV fluid therapy

Upon successful completion of this Module, you will be able to discuss and perform venipuncture, intravenous catheterization and initiate and maintain manual IV fluid therapy in the canine.

- Sterile Technique #3
  - Upon successful completion of this Module, you will be able to describe and demonstrate the preparation of and equipment for the patient for general surgery, describe and demonstrate draping of a patient, describe and demonstrate how to properly pass instruments and supplies during general surgery.
- Intro to Anesthesia
  - Upon successful completion of this Module, you will be able to describe and demonstrate the assembly of an anesthetic machine with basic knowledge of the function of the various parts and the ability to identify and properly assemble the anesthetic system ;Routine maintenance of the anesthetic machine; anesthetic precheck for leaks and filling of isoflurane vaporizers
- Monitoring of Anesthesia
  - Upon successful completion of this Module, you will be able to describe and demonstrate the basic principles of anesthetic monitoring using patient's Vital signs, Reflexes and machine generated parameters to determine anesthetic depth of patient and when to notify the veterinarian in charge.
- Feline Anesthesia
  - Upon successful completion of this Module, you will be able to describe and demonstrate set-up of gas anesthetic machine for feline patients; Recognize and interpret the physiological parameters found on the patient in the pre-anesthetic exam; Demonstrate the use of different pre-medications; Demonstrate different induction methods used in cats; Demonstrate proper intubation technique in cats; Demonstrate maintaining proper anesthetic depth through interpretation of the

symptoms of the different stages of anesthetic and appropriate use of flow meter, vaporizer and pop-off valve; Demonstrate proper monitoring of the patient physiological parameters and recording them on an anesthetic log; Demonstrate proper disconnection and extubation procedure; Recognize and describe the danger posed by laryngeal spasms in the cat.

- Feline Venipuncture/Neuter
  - Upon successful completion of this Module, you will be able to discuss and perform venipuncture, intravenous catheterization and prepare materials for feline neuter procedures.
- Review Lab for Small Animal Lab
- Competencies/Evaluation
- Suture
  - Upon successful completion of this Module, you will be able to identify common suture material, suture patterns and knots used in veterinary practice.
  
- Clinic rotations
  
- Sheep Lab
  - Upon successful completion of this Module, you will be able to describe and demonstrate restraint of sheep for veterinary procedures such as SQ, IM or IV medications; and collect blood from the jugular vein using the vacutainer system.
- Equine Vaccination
  - Upon successful completion of this Module, you will be able to describe and demonstrate Identification of horses for legal purposes; normal values of vital signs for the horse; IM injection, IV Venipuncture and oral

deworming and the student will be able to describe restraint of a horse using a twitch and administration of intranasal vaccines.

- Cattle Handling
  - Upon successful completion of this Module, the student will be able to discuss and define vaccination procedures for cattle, how to process cattle in a chute system and the methods used for pregnancy diagnosis.
- Goat Lab
  - Students will be able to: Handle goats properly and do a physical exam; Halter a goat ; perform Subcutaneous injection and Hoof trim
- Bovine Orals & Parenterals
  - Students will be able to: Administer large volumes of fluids via stomach tube and Frick speculum; Administer small volumes of fluids via drenching; Administer boluses via balling gun; Insert a Drinkwater speculum
- Equine Dental
  - Upon successful completion of this Module, you will be able to describe and define the reasons why an equine dental is performed, how it is performed and the benefits to the horse. The student will also be able to discuss common dental problems in horses and how to use and maintain the equipment for performing equine dentals.
- Bovine Epidurals/IV
  - Upon successful completion of this Module, you will be able to describe and demonstrate restraint of cattle; gain intravenous access in a variety of anatomic locations; procedures for epidural placement in the cow.
- Bovine Paravertebral Anesthesia
  - Upon successful completion of this Module, you will be able to describe and demonstrate local anesthetic procedures designed to anesthetize the paralumbar fossa for laparotomy in the bovine species.
- Special Bovine Anesthesia Techniques

- Upon successful completion of this Module, you will be able to describe and demonstrate cornual nerve, line or an inverted L local anesthetic block and tie a leg back for restraint in the bovine species; recognize and know the names of surgical instruments used for bovine castration and dehorning; describe the process of infusing medications into the mammary gland; and demonstrate a skin scraping.
- Large Animal Evaluation

## TRANSFERABILITY: (if applicable)

A list of institutions to which this course transfers (For example: UA, UC, UL, AU, GMU, CU, CUC, KUC. Please note that this is a sample and it must be replaced by your specific course transfer)

\*Warning: Although we strive to make the transferability information in this document up-to-date and accurate, the student has the final responsibility for ensuring the transferability of this course to Alberta Colleges and Universities. Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at Alberta Transfer Guide main page <http://www.transferalberta.ca> or, if you do not want to navigate through few links, at <http://alis.alberta.ca/ps/tsp/ta/tbi/onlineSearch.html?SearchMode=S&step=2>

\*\* 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

**(The following criteria may be changed to suite the particular course/instructor)**

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**.

## EVALUATIONS:

<b>GRADING CRITERIA:</b>
<b>GRADING CONVERSION CHART for ANIMAL HEALTH TECHNOLOGY</b>
<b>OVERALL GRADE POINT AVERAGE HAS TO BE 2.0 OR HIGHER TO BE SUCCESSFUL IN THE AHT PROGRAM.</b>

Alpha Grade	4-point Equivalent	Percentage Guidelines	Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100	C+	2.3	67-69
A	4.0	85-89	C	2.0	63-66
A-	3.7	80-84	C-	1.7	60-62
B+	3.3	77-79	FAIL	1.3	55-59
B	3.0	73-76	FAIL	1.0	50-54
B-	2.7	70-72	WF	0.0	00-49

Students are evaluated on timeliness, sanitation, presentation, clinic duties, medical records, conflict resolution, team work and attitude.

-Students must complete both small and large animal competency lists and evaluations.

-80% or above is needed in all components for a passing mark.

-See Clinic Handbook for mark deductions

<b>EXAMINATIONS</b>	Mark Distribution
<b>A. Lab and Clinic</b>	100%
	<b>100%</b>

\*A minimum of 80% must be obtained in order to successfully pass AH345. If a student misses a quiz without prior notification and without a valid reason, a mark of zero will be assigned for that quiz. Late assignments not accepted. Any material handed in to an instructor must be in blue or black pen, no white out, medical corrections only. A minimum of 60% must be obtained in order to successfully pass the Applied Anatomy written theory quiz component of the Applied Anatomy Evaluation delivered during AH348 class time.

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

As posted

### **STUDENT RESPONSIBILITIES:**

Enrolment at GPRC 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.



**STATEMENT ON PLAGIARISM AND CHEATING:**

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <http://www.gprc.ab.ca/about/administration/policies/>

\*\*Note: all Academic and Administrative policies are available on the same page.

YEAR: 2018

