



**DEPARTMENT OF ANIMAL SCIENCE**

**COURSE OUTLINE – FALL 2016**

**AH 342 LABORATORY PROCEDURES II – 3.5 (3-0-3) 96 HOURS**

**16 Weeks**

<b>INSTRUCTOR:</b>	Dr. S. Klassen DVM	<b>PHONE:</b>	(780)-835-6633
<b>OFFICE:</b>	AS 141	<b>E-MAIL:</b>	sklassen@gprc.ab.ca
<b>OFFICE HOURS:</b>	9:00am - 4:00pm or as posted		

**CALENDAR DESCRIPTION:**

Students will develop knowledge and skills covered in previous lab courses, as well as learning to collect, prepare and evaluate samples for clinical chemistry and cytology.

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

- Must be registered in the GPRC Animal Health Technology Program
- AH141
- AH174
- AH240
- AH242
- AH249

**REQUIRED TEXT/RESOURCE MATERIALS:**

- Hendrix, *Laboratory Procedures for Veterinary Technicians*, Mosby
- Sink & Feldman, *Laboratory Urinalysis and Hematology*, Teton NewMedia,

**DELIVERY MODE(S):**

Lab

Lecture

**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.transferralberta.ca> or, if you do not want to navigate through few links, at <http://alis.alberta.ca/ps/tsp/ta/tbi/onlineearch.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>

<b>Alpha Grade</b>	<b>4-point Equivalent</b>	<b>Percentage Guidelines</b>		<b>Alpha Grade</b>	<b>4-point Equivalent</b>	<b>Percentage Guidelines</b>
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

**STUDENT EVALUATION AND ATTENDANCE:**

Please review GPRC’s Examination and Grading policies.

Attendance will not be assigned a mark in this class, but if a student misses a class or a lab (including quizzes and exams) or anything else that happens in class (eg. assignments and/or quizzes and/or exams and/or handouts, whether scheduled or not), these will not necessarily be provided to the student or made up in any way. The student will be assigned a mark of zero for those assignments/exams/ etc. missed. If the student contacts the instructor PRIOR to missing a class/lab/exam/etc., and if the student has an acceptable excuse (the validity of the excuse is at the discretion of the instructor and will require documentation such as a note from a doctor), the student may be excused without penalty and may be given access to the missed material. Overall excessive absence, coming to class late, or leaving during class, may result in mark deductions at the instructor's discretion. For further clarification on the attendance policy, see the AHT Program guidelines in the orientation booklet and the GPRC Policies and Procedures.

Absence from a laboratory will result in a mark of zero for any assignments or reports assigned in that lab, and also in a deduction of 5% off the final mark for the course for each lab missed unless the student contacts the instructor PRIOR to the lab and the instructor deems the absence as valid

(see the attendance policy). Labs will not be made up later. Students must attend the labs AS SCHEDULED unless PRIOR arrangements have been made with the instructor. Students changing labs without approval by the instructor will be marked as absent.

Marks will be deducted for inadequate clean-up and inappropriate dress (including no lab coat) in labs. Students MUST wear a clean lab coat to all labs; scrubs alone are not adequate. Open-toed shoes and dangling jewelry are considered safety hazards and are not allowed in labs.

Supplemental final exam is NOT available for the lab exam and may not be available for the written final exam.

Midterm and final exams will not be available to the students for viewing after they are completed.

		<b>Mark Distribution</b>	
<b>A.</b>	Quizzes & Assignments (including lab assignments)	30%	
<b>B.</b>	Midterm Exam	20%	
<b>C.</b>	Final Lecture Exam	35%	
<b>D.</b>	Final Lab Exam	15%	
		<b>100%</b>	

\*A minimum of 60% must be obtained in order to successfully pass AH 342.

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

### **Hematology Review**

Upon successful completion of this unit, you will have reviewed and be able to apply clinical hematology principles and tests.

### **Sample Collection**

Upon successful completion of this unit, you will be able to discuss and demonstrate safe and effective biological sample collection and storage methods.

## **Urinary Tract & Urinalysis**

Upon successful completion of this unit, you will be able to discuss the function of the urinary tract and evaluate the function using urinalysis and other diagnostic tests.

## **Enzymology & Enzyme Assays**

Upon successful completion of this unit, you will be able to define and apply enzymology and enzyme assays.

## **Liver & Kidney Function Tests**

Upon successful completion of this unit, you will be able to discuss the functions of the liver and kidneys, and describe and apply the tests used to evaluate these functions.

## **Blood Glucose & Pancreas Function**

Upon successful completion of this unit, you will be able to evaluate and discuss the functions of the pancreas and importance of blood glucose levels.

## **Skeletal Muscle & Brain Function**

Upon successful completion of this unit, you will be able to evaluate and discuss damage to the skeletal muscle and brain.

## **Adrenal, Thyroid, & Parathyroid Gland Function**

Upon successful completion of this unit, you will be able to evaluate and discuss the functions of the adrenal, thyroid, and parathyroid glands.

## **Vaginal Cytology**

Upon successful completion of this unit, you will be able to evaluate and discuss vaginal cytology in the dog.

## **Semen Evaluation**

Upon successful completion of this unit, you will be able to evaluate and discuss the quality of animal semen.

## **Basic Cytology** (*optional – time permitting*)

Upon successful completion of this unit, you will be able to identify the basic characteristics of normal and abnormal cytology of various samples.

**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.

**ADDITIONAL INFORMATION:** (optional)

YEAR: August 29, 2016
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