



**DEPARTMENT OF ANIMAL SCIENCE**

**COURSE OUTLINE – FALL 2016**

**AH 141 ANATOMY AND PHYSIOLOGY I – 4.5 (5.5-0-0.5) 96 HOURS**

**16 Weeks**

<b>INSTRUCTOR:</b>	Dr. S. Klassen	<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 proper anatomical and physiological terminology. Instruction of cellular biology and physiology will progress into an understanding of organization of cell into tissues, organs and body systems. A working knowledge of body systems will include basic components and functions, gross anatomical features, common abnormalities, interactions with other systems, surgical and diagnostic imaging considerations and location and/or palpation in live animals or cadavers. The student will learn the names, location and function of important anatomical structures in common domestic animal species with an emphasis on the application of practical anatomical knowledge required for mastery of subsequent courses in medical and surgical nursing, x-ray technology, etc.

**PREREQUISITE(S)/COREQUISITE:**

- Must be registered in the GPRC Animal Health Technology Program

**REQUIRED TEXT/RESOURCE MATERIALS:**

- Colville & Bassert, *Clinical Anatomy & Physiology for Veterinary Technicians*, 3<sup>rd</sup> ed. Mosby
- Pasquini, Spurgeon, Pasquini, *Anatomy of Domestic Animals*, Sudz Publishing

**DELIVERY MODE(S):****Lecture and Lab****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 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

## EXAMINATIONS

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.

A supplemental exam **will not** necessarily be available for this course.

A final mark of 60% or higher is needed to pass this course. Midterm and final exams will **not** be available to the students for viewing after they are completed.

	Mark Distribution
<b>A. Quizzes &amp; Assignments</b>	<b>30%</b>
<b>B. Midterm Exam</b>	<b>25%</b>
<b>C. Final Written Exam (includes lecture &amp; lab material)</b>	<b>35%</b>
<b>D. Final Practical Exam</b>	<b>10%</b>
	<b>100%</b>

A minimum of 60% must be obtained in order to successfully pass AH141.

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

***NOTE: Not all of these units will be covered in AH141. The course content continues in AH240.***

### **A. Introduction to Anatomy & Physiology**

Upon successful completion of this unit, you will be able to define and identify anatomy and physiology, and terms of direction and planes of reference as they refer to animal anatomy

### **B. Cells & Tissues**

Upon successful completion of this unit, you will be able to define and discuss cellular physiology and the organization of cells into tissues.

### **C. Skeletal System**

Upon successful completion of this unit, you will be able to identify the components of the skeletal systems of common domestic animals, and discuss the composition and function of bones.

### **D. Muscular System**

Upon successful completion of this unit, you will be able to identify some of the muscles and muscle groups of common domestic animals, and discuss the composition and function of muscles.

### **E. Integumentary System**

Upon successful completion of this unit, you will be able to define integument and identify its components, and discuss the functions of the integumentary system.

### **F. Cardiovascular System**

Upon successful completion of this unit, you will be able to identify the components of the cardiovascular system and discuss their functions.

### **G. Respiratory System**

Upon successful completion of this unit, you will be able to identify the components of the respiratory system and discuss their functions.

### **H. Nervous System**

Upon successful completion of this unit, you will be able to identify the components of the nervous system and discuss their functions.

## **I. Special Senses**

Upon successful completion of this unit, you will be able to identify the main anatomical features of the ear, eye, and nasal cavity, and discuss the functions of each of the special senses.

## **J. Digestive System**

Upon successful completion of this unit, you will be able to identify the components of the digestive system and discuss their functions.

## **K. Urinary System**

Upon successful completion of this unit, you will be able to identify the components of the urinary system and discuss their functions.

## **L. Endocrine & Immune Systems**

Upon successful completion of this unit, you will be able to identify the components of the immune and endocrine systems, and discuss their functions.

## **M. Reproductive System**

Upon successful completion of this unit, you will be able to identify the components of the reproductive systems of the male and female, and discuss their functions.

### **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:**

Students may be required to print off their own notes packages, available on the Student Drive under Animal Health.

YEAR: August 29, 2016

