



DEPARTMENT OF ANIMAL HEALTH TECHNOLOGY

COURSE OUTLINE – AH 141

ANATOMY AND PYSIOLOGY

INSTRUCTOR: Dr. S. Klassen **PHONE:** 780-835-6703
OFFICE: FAS 149a **E-MAIL:** sklassen@gprc.ab.ca

OFFICE HOURS: 9:00am - 4:00pm

PREREQUISITE(S)/COREQUISITE: AHT program entrance requirements

REQUIRED TEXT/RESOURCE MATERIALS:

- Colville & Bassert, *Clinical Anatomy & Physiology for Veterinary Technicians*, Mosby, 2002
- Pasquini, Spurgeon, Pasquini, *Anatomy of Domestic Animals*, Sudz Publishing, 2003 , 10th Edition

CALENDAR DESCRIPTION:

The AHT student 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.

CREDIT/CONTACT HOURS:

Credits: 6.0

Contact Hours: 96

DELIVERY MODE(S):

Lectures and Labs

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:

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.

EXAMINATIONS:

To pass this course, students must achieve a minimum grade of 50% on the final written exam (applies to the supplemental, as well) and a minimum overall grade of 60% in the entire course. Attendance will not be assigned a mark in this class, but if a student misses a class or a lab (including quizzes and exams), any assignments and/or quizzes and/or exams and/or handouts, whether scheduled or not, that occur or are distributed in the class or lab that was missed, will not 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.

If the requirements to pass the course have not been met, a supplemental exam is available for the final written exam only, and only if the overall grade for the course is above 50%.

Mark Distribution

A. Skeleton Assignment	10%
B. Quizzes & Assignments	30%
C. Midterm Exam	20%
D. Final Written Exam (includes lecture & lab material)	30%
E. Final Practical Exam	10%
	100%

STUDENT RESPONSIBILITIES:

Enrolment at the Northern Alberta Institute of Technology assumes that the student will become a responsible citizen of the Institute. 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:

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:

A. Introduction to Anatomy & Physiology

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

G. Respiratory System

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

H. Nervous System

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

I. Special Senses

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

K. Urinary System

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

Created by: Instructor name Date: Signature:

Approved by: Chair name Date: Signature: