

DEPARTMENT OF ANIMAL SCIENCE

COURSE OUTLINE – FALL 2022

AH 344 APPLIED IMMUNOLOGY – 1.5 (2-0-0) 32 HOURS

16 Weeks

Grande Prairie Regional College respectfully acknowledges that we are located on Treaty 8 territory, the traditional homeland and gathering place for many diverse Indigenous peoples. We are honoured to be on the ancestral lands of the Cree, Dene/Beaver and Métis, whose histories, languages, and cultures continue to influence our vibrant community. We are grateful to have the opportunity to work, learn, and live on this land.

INSTRUCTOR:	Dr.S.Klassen DVM	PHONE:	(780) 835-6633 or CELL: (780)864-0718
OFFICE:	FAS 141	E-MAIL:	sklassen@nwpolytech.ca
OFFICE HOURS:	As posted		

FALL 2022 DELIVERY: Mixed or High-Flex Delivery: this course will largely be delivered onsite with the possibility of some remote lectures via ZOOM. Students must have a computer with a webcam and reliable internet connection. Exams will occur onsite/in-person as well but may require a computer to complete. Technological support is available through helpdesk@nwpolytech.ca

CALENDAR DESCRIPTION:

A review of the purpose, functions and normal variations of the immune system is covered. Disorders of the immune system will be classified into broad categories and includes discussion of clinical signs, diagnostic procedures and treatment principles of some common immunological conditions. Students will learn the concepts and application of basic immunological tests and vaccination procedures. Principles of blood grouping and transfusions are covered

PREREQUISITE(S)/COREQUISITE: NEW

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

REQUIRED TEXT/RESOURCE MATERIALS:

No specific text required, but Anatomy and Lab Procedures textbooks have some pertinent information and readings may be assigned.

DELIVERY MODE(S):

Lecture

TRANSFERABILITY: (if applicable)

Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at the Alberta Transfer Guide main page <http://www.transferalberta.ca>.

** 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**

EVALUATIONS:

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

GRADING CONVERSION CHART for ANIMAL HEALTH TECHNOLOGY

OVERALL GRADE POINT AVERAGE HAS TO BE 2.0 OR HIGHER TO BE SUCCESSFUL IN THE AHT PROGRAM.

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 & ATTENDANCE

Please review GPRC's Examination and Grading policies.

Attendance will be assigned a mark in this class: attendance will be taken in each lecture, and each lecture missed will result in a deduction from the attendance mark regardless of the reason for the absence. If a student misses a quiz or exam, they will not be able to make it up and will be awarded a mark of zero (at the instructor's discretion).

Cell phone use is NOT allowed in class (marks WILL be deducted for this), and use of personal computers, except for exam purposes, is discouraged and must be cleared with the instructor before use. If a computer is used, the student must sit at the back of the class so as not to distract other students.

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, nor will quizzes be available unless the instructor reviews them in class.

		Mark Distribution
	A. Quizzes & Assignments	20%
	B. Midterm Exam	30%
	C. Final Exam	40%
	D. Attendance	10%
		100%

*A minimum of 60% overall must be obtained in order to successfully pass AH344.

COURSE SCHEDULE/TENTATIVE TIMELINE:

The Immune System: Structure & Function:

Upon successful completion of this unit, you will be able to define and discuss structures and functions of the immune system.

Disorders of the Immune System:

Upon successful completion of this unit, you will be able to describe and discuss disorders of the immune system.

Use of Immunological Concepts in Veterinary Medicine:

Upon successful completion of this unit, you will be able to define and discuss common testing methods using immunological concepts as well as other means of using the immune system to combat or prevent disease.

Blood Typing and Transfusions:

Upon successful completion of this unit, you will be able to describe and discuss blood typing and its importance for blood transfusions.

Vaccinations and Vaccines:

Upon successful completion of this unit, you will be able to discuss vaccination and its importance, and describe the various types of vaccines.

Vaccines and Disease Prevention:

Upon successful completion of this unit, you will be able to describe the diseases for which vaccines are available and apply the use of vaccines to prevent the diseases

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 Northwestern Polytechnic Calendar at <https://www.nwpolytech.ca/programs/calendar/> or the Student Rights and Responsibilities policy which can be found at <https://www.nwpolytech.ca/about/administration/policies/index.html>.

**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 or in D2L BrightSpace under the appropriate course heading.

YEAR: 2022

