

DEPARTMENT OF ANIMAL SCIENCE

COURSE OUTLINE – Fall 2023

AH344: APPLIED IMMUNOLOGY – 1.5 (2-0-0) 32 Hours for 16 Weeks

Northwestern Polytechnic acknowledges that our campuses are located on Treaty 8 territory, the ancestral and present-day home to many diverse First Nations, Metis, and Inuit people. We are grateful to work, live and learn on the traditional territory of Duncan's First Nation, Horse Lake First Nation and Sturgeon Lake Cree Nation, who are the original caretakers of this land.

We acknowledge the history of this land and we are thankful for the opportunity to walk together in friendship, where we will encourage and promote positive change for present and future generations.

INSTRUCTOR:	Chris Mizzi DVM	PHONE:	780-835-6617
OFFICE:	AS133	E-MAIL:	cmizzi@nwpolytech.ca
OFFICE HOURS:	As posted (780-228-3018cell)		

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:

- Must be registered in the NWP 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 High flex

LEARNING OUTCOMES:

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

TRANSFERABILITY:

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.alberta.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:

	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.

GRADING CRITERIA:

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

Grading Chart for courses with Alpha Grading:

Alpha Grade	4-point Equivalent	Percentage Guidelines	Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	95-100	C+	2.3	67-69
A	4.0	85-94	C	2.0	63-66
A-	3.7	80-84	C-	1.7	60-62
B+	3.3	77-79	D+	1.3	55-59
B	3.0	73-76	D	1.0	50-54
B-	2.7	70-72	F	0.0	00-49

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).

A final mark of 60% or higher is needed to pass this course.

COURSE SCHEDULE/TENTATIVE TIMELINE:

As posted

STUDENT RESPONSIBILITIES:

Enrolment at NWP assumes that the student will become a responsible citizen. 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 ACADEMIC MISCONDUCT:

Academic Misconduct will not be tolerated. For a more precise definition of academic misconduct and its consequences, refer to the Student Rights and Responsibilities policy available 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 are required to print off their own note packages, available on the D2L BrightSpace under the appropriate course heading.