GPRC

DEPARTMENT OF ANIMAL HEALTH TECHNOLOGY

COURSE OUTLINE – AH 344
APPLIED IMMUNOLOGY

INSTRUCTOR: Dr. S. Klassen **PHONE:** 780-835-6633
OFFICE: FAS 141 **EMAIL:** sklassen@gprc.ab.ca

OFFICE HOURS: 9:00am – 4:00pm or as posted

PREREQUISITE(S)/COREQUISITE:
Students must complete and pass AH141, AH241, AH142 and AH221

1. Course Description

Course Code: AH344
Course Title: Applied Immunology
Hours: 32
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 immunologic conditions. Students will learn the concepts and application of basic immunologic tests and vaccination procedures. Principles of blood grouping and transfusions are covered.

2. Major Topics

A. The Immune System: Structure & Function
B. Disorders of the Immune System
C. Vaccination & Vaccines
D. Vaccines & Disease Prevention
E. Immunological Testing
F. Blood Typing & Transfusions

3. Texts & References

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

4. Student Evaluation

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.

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

	Mark Distribution
A. Quizzes & Assignments	25%
B. Midterm Exam	30%
C. Final Exam	45%
	100%

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5. Delivery Method

Mostly lectures and some labs.

6. Student Equipment & Supplies

- Students may be required to wear protective clothing (ie. lab coats) to labs.

7. Student Responsibilities

Enrolment at GPRC-Fairview 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 College 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.

8. Learning Outcome Guides

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.

Immunological Testing:

Upon successful completion of this unit, you will be able to define and discuss common testing methods using immunological concepts.

Blood Typing and Transfusions:

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

Created by: *Dr. S. Klassen* Date: Signature:

Approved by: *Karlee Worobetz* Date: Signature: