

**DEPARTMENT OF ANIMAL SCIENCE**

**COURSE OUTLINE – FALL 2022**

**AH 173 APPLIED MATHEMATICS - 1 (1-0-0) 16HOURS**

**16 Weeks**

Northwestern Polytechnic 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.

<b>INSTRUCTOR:</b>	Chris Mizzi DVM	<b>PHONE:</b>	(780) 835-6617
<b>OFFICE:</b>	AS133	<b>E-MAIL:</b>	cmizzi@nwpolytech.ca
<b>OFFICE HOURS:</b>	See posted on door (cell 780-228-3018)		

**DELIVERY: High Flex.** This course is delivered in person and/or via zoom. Students must have a computer with a webcam and reliable internet connection in case of a sudden change to online learning. Technological support is available through [helpdesk@nwpolytech.ca](mailto:helpdesk@nwpolytech.ca).

**CALENDAR DESCRIPTION:**

Mathematical concepts that are frequently encountered by the Animal Health Technician will be covered and a working knowledge of common measurement systems and conversions is developed. Accurate calculations using correct notation and units are required.

**PREREQUISITE(S)/COREQUISITE:**

- Must be registered in the NWP Animal Health Technology Program

**REQUIRED TEXT/RESOURCE MATERIALS:**

- Essential Calculations for Veterinary Nurses and Technicians, Lake & Green, 3rd ed. (older editions are acceptable)
- Students must have internet access as portions of this course may be online.

### **DELIVERY MODE(S): High Flex**

### **COURSE OBJECTIVES/LEARNING OUTCOMES:**

Module 1: Measurement Systems. At the end of this module students will be able to define and discuss the common units and conversions used in veterinary medicine.

Module 2: Drug Administration. At the end of this module students will be able to define and discuss veterinary terms related to medications, the ways to safely administer medications and how to interpret drug labels.

Module 3: Dose Calculations. At the end of this module students will be able to define and discuss the parts of a syringe, how to calculate drug dosages for patients, and how to safely dispense medications.

Module 4: Dilutions & Solutions. At the end of this module students will be able to properly dilute medications and chemicals, prepare solutions and work with mixed solutions.

### **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:**

**GRADING CRITERIA:**

**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

<b>EXAMINATIONS</b>	Mark Distribution
<b>A. Quizzes &amp; Assignments</b>	40%
<b>B. Final Exam</b>	60%
	<b>100%</b>

\*A minimum of 60% must be obtained in order to successfully pass AH173.

**COURSE SCHEDULE/TENTATIVE TIMELINE:**

As posted

**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:**

- Any tests/exams handed in to an instructor must be in blue or black pen. Disruptive behavior in the class will result in the student being excused from the class – this includes use of cell phones or any hand held equipment that has not been approved by the instructor.
- Any student wishing to see a marked quiz or midterm must make an appointment with the instructor to view or go over. Final exams are not available to be viewed by a student.

YEAR: 2022

