



DEPARTMENT OF ANIMAL SCIENCE

COURSE OUTLINE – FALL 2018

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

16 Weeks

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|----------------------|--|----------------|-------------------|
| INSTRUCTOR: | Chris Mizzi DVM | PHONE: | (780) 835-6617 |
| OFFICE: | AS133 | E-MAIL: | cmizzi@gprc.ab.ca |
| OFFICE HOURS: | See posted on door (cell 780-228-3018) | | |

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 GPRC Animal Health Technology Program

REQUIRED TEXT/RESOURCE MATERIALS:

- Essential Calculations for Veterinary Nurses and Technicians, Lake & Green, 3rd ed.

DELIVERY MODE(S):

Lecture

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)

A list of institutions to which this course transfers (For example: UA, UC, UL, AU, GMU, CU, CUC, KUC. Please note that this is a sample and it must be replaced by your specific course transfer)

*Warning: Although we strive to make the transferability information in this document up-to-date and accurate, the student has the final responsibility for ensuring the transferability of this course to Alberta Colleges and Universities. Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at Alberta Transfer Guide main page <http://www.transferralberta.ca> or, if you do not want to navigate through few links, at <http://alis.alberta.ca/ps/tsp/ta/tbi/onlineSearch.html?SearchMode=S&step=2>

** 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

(The following criteria may be changed to suite the particular course/instructor)

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

EVALUATIONS:

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| 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 |

| EXAMINATIONS | Mark Distribution |
|-------------------------------------|-------------------|
| A. Quizzes & Assignments | 40% |
| B. Final Exam | 60% |
| | |
| | |
| | |
| | 100% |

*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 College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <http://www.gprc.ab.ca/about/administration/policies/>

**Note: all Academic and Administrative policies are available on the same page.

ADDITIONAL INFORMATION:

- Any material handed in to an instructor must be in blue or black pen, no white out, medical corrections only. 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: 2018

