

**SCHOOL OF APPLIED SCIENCE AND TECHNOLOGY
ANIMAL HEALTH TECHNOLOGY**

COURSE OUTLINE – Winter 2023

AH 245 Parasitology– 3.5 (3-0-2) 80 Hours for 16 Weeks

Northwestern Polytechnic (NWP) 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:	Rhonda Shaw	PHONE:	780-835-6702
OFFICE:	FAS137	E-MAIL:	rshaw@nwpolytech.ca
OFFICE HOURS:	Contact instructor for appointment		

CALENDAR DESCRIPTION:

Life cycles of significant nematodes, trematodes, cestodes, arthropods and protozoa are covered. Instruction includes pathogenesis of common veterinary parasites, treatment and control measures and human health implications. The students will learn to prepare samples and identify these parasites and their ova or oocysts using common laboratory techniques.

PREREQUISITE(S)/COREQUISITE:

- Must be registered in the NWP Animal Health Technology Program
- AH141, AH173 and AH174

REQUIRED TEXT/RESOURCE MATERIALS:

- William J. Foreyt, *Veterinary Parasitology*, Blackwell, 2001, 5th Edition
- Charles M. Hendrix and Ed Robinson, *Diagnostic Parasitology for Veterinary Technicians*, Elsevier, 2017, 5th Edition
- Lab Coat, scrubs (Lab #1-5), closed toe shoes

DELIVERY MODE(S):

Lab / Lecture

Quizzes, midterm, final exams will be supervised and in-person. Students must have a computer with a webcam and reliable internet connection. Technological support is available through

HelpDesk@nwpolytech.ca

COURSE OBJECTIVES / LEARNING OUTCOMES:

A. Module 1: Introduction to Parasitology

Upon successful completion of this Learning Outcome Guide, you will be able to develop and communicate knowledge related to an Introduction of Parasitology.

B. Module 2: Phylum Arthropoda

Upon successful completion of this Learning Outcome Guide, you will be able to discuss and demonstrate knowledge of the Phylum Arthropoda, which includes the Class Insecta and Arachnida.

C. Module 3: Phylum Platyhelminthes

Upon successful completion of this Learning Outcome Guide, you will be able to discuss and demonstrate knowledge of the Phylum Platyhelminthes which include Trematodes and Cestodes.

D. Module 4: Phylum Nematoda

Upon successful completion of this Learning Outcome Guide, you will be able to discuss and demonstrate knowledge of the Phylum Nematoda.

E. Module 5: Kingdom Protista

Upon successful completion of this Learning Outcome Guide, you will be able to discuss and demonstrate knowledge of the Kingdom Protista.

F. Practical Parasitology Laboratory Module

Upon successful completion of this Learning Outcome Guide, you will be able to identify and describe flies, lice, fleas, ticks, mites and common parasitic ova, oocysts and microfilaria.

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.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:

EXAMINATIONS	Mark Distribution
A. Quizzes	15%
B. Midterm Exam	25%
C. Theory Final Exam	30%
D. Lab Final Exam	20%
E. Lab Reports / Assignments / Prep / Cleanup	10%
	100%

* A minimum of 60% must be obtained to successfully pass AH 245

GRADING CRITERIA:

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

AHT GRADING						
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

COURSE SCHEDULE/TENTATIVE TIMELINE:

See course objectives for tentative timeline.

Course schedules are posted.

STUDENT RESPONSIBILITIES:

Enrolment at NWP 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 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

For your safety and the safety of others there will be zero tolerance of anyone showing up for the sessions under the influence of alcohol or other medications which may cause physical impairment or disruptive behaviour. Sessions missed for the above reasons will also be considered as missed without a valid excuse and result in a 5% deduction of final mark for every session missed.

Attendance is mandatory for labs and guest speakers. A 5% deduction for each incidence, off final mark will occur if a student has an unexcused absence from a lab or guest speaker. Deductions will occur if a student is late for labs or guest speakers, without a valid excuse. A 0% grade will be given for any late assignments / lab reports or missed quizzes. A valid reason requires prior notification to the instructor and acceptable third party written note (doctor, etc.). Exceptions to this are at the discretion of the instructor. Missed labs / guest speakers are not available for make-up.

Having a valid reason for missing a lecture, lab or quiz / exam does not change the student's responsibility to acquire the information that was missed nor your obligation to complete required assignments / reports / quizzes / exams by the date required.

½ marks will be deducted for spelling errors on assignments, quizzes and exams. Please treat all exams, quizzes and assignments as medical records and only correct answers using medical corrections. Illegible writing will result in deducted marks. No electronic devices are to be used in exams or quizzes. Having an electronic device present during an exam or quiz will result in dismissal from class and an automatic 0% assigned for that quiz or exam.

No supplemental final exam option for this course.

Revision Date: Sept 2022