



EFFECTIVE: JANUARY, 2008
CURRICULUM GUIDELINES

A. Division: **Education** Effective Date: January, 2008

B. Department / Program Area: **Science & Technology** / **Animal Health Technology** Revision New Course

If Revision, Section(s) Revised:
 Date of Previous Revision:
 Date of Current Revision:

C: AHTT 1205 **D: Immunology & Veterinary Diseases** **E: 3**

Subject & Course No.	Descriptive Title	Semester Credits
F: Calendar Description: This course introduces students to several of the causes of disease, investigates the body's defence mechanisms towards pathogens, and provides an overview of the causes, signs, treatment and prevention of common diseases in both small and large animals. Inflammation and tumour development, as well as immunity and resistance are covered. Specific modes of disease transmission and prevention (including both small and large animal vaccine schedules) are detailed.		
G: Allocation of Contact Hours to Type of Instruction / Learning Settings Primary Methods of Instructional Delivery and/or Learning Settings: Lecture Number of Contact Hours: (per week / semester for each descriptor) 4 hours/week: 2 X 2 hour lectures Number of Weeks per Semester: 15 weeks	H: Course Prerequisites: None	
	I: Course Corequisites: None	
	J: Course for which this Course is a Prerequisite None	
	K: Maximum Class Size: 30	
L: PLEASE INDICATE: <input type="checkbox"/> Non-Credit <input checked="" type="checkbox"/> College Credit Non-Transfer <input type="checkbox"/> College Credit Transfer: SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bctransferguide.ca)		

M: Course Objectives / Learning Outcomes:

Upon completion of Immunology & Veterinary Diseases 1205, student will be able to:

1. Describe common causes of diseases and understand the body's defence mechanisms towards pathogens.
2. Explain the diagnosis, control and treatment of transmissible disease processes.
3. Illustrate the mechanism of inflammation and cells involved in the inflammatory response.
4. Compare and contrast cell-mediated vs. humoral immunity.
5. Describe the process of tumour formation and classification, resistance to tumours, and autoimmunity.
6. Understand the fundamentals of preventative medicine.
7. Identify types of vaccines, and describe basic small and large animal vaccine protocols and schedules.
8. Provide a brief description of common diseases prevented through vaccination
9. Describe common diseases/disorders of the gastrointestinal and endocrine systems
10. Describe common diseases/disorders of the cardio-pulmonary systems
11. Describe common diseases/disorders of the neuro-musculo-skeletal systems
12. Describe common diseases/disorders of the urogenital systems
13. Describe common diseases/disorders of the skin and sensory systems

N: Course Content:

The major topics in this course include the following:

1. Causes of disease
 - pathogens: parasites, bacteria, viruses, fungi, protozoa
 - inflammation and response to injury
 - healing and repair of damaged tissues
 - factors predisposing to disease
 - oncology: tumour formation and classification
 - autoimmunity and immune-mediated diseases
2. Defence mechanisms:
 - physical & chemical barriers
 - cell-mediated immunity
 - humoral immunity
 - maternal antibody & neonatal immunity
 - hypersensitivity reactions: Type I - IV
3. Preventative health programs
 - paediatric programs
 - vaccination programs for small and large animals
 - discussion of core vaccines
 - recommended vaccine protocols
 - common small and large animal diseases prevented through vaccination

4. Common diseases/disorders of the following small and large animal body systems:

- gastrointestinal
- endocrine
- cardiopulmonary
- nervous
- musculoskeletal
- urogenital
- integumentary
- sensory

O: Methods of Instruction:

The course involves two hours of classroom instruction two times per week.

P: Textbooks and Materials to be Purchased by Students:

McCurin, D.M. & Bassert, J.M., 2006, *Clinical Textbook for Veterinary Technicians*. 6th ed., Elsevier.

Sirois, M., 2004, *Principles and Practice of Veterinary Technology*. Mosby, 2nd ed.

Tilley, L.P. & Smith, F.W.K., 2004, *The 5-Minute Veterinary Consult: Canine & Feline*. 5th ed., Lipincott Williams & Wilkins.

Tizard, I.R., 2004, *Veterinary Immunology: An Introduction*. 7th ed., Saunders.

Q: Means of Assessment:

TYPE OF EVALUATION	PERCENTAGE (total 100%)
Quiz # 1	10
Quiz # 2	10
Quiz # 3	10
Classroom Assignments & Projects	30
Preparation, Participation & Attendance	10
Final Examination	30

**Grades: A+ 95-100, A 90-94, A- 85-89, B+ 80-84, B 75-79, B- 70-74,
C+ 65-69, C 60-64, C- 55-59, P 50-54, F 0-49.**

R: Prior Learning Assessment and Recognition: specify whether course is open for PLAR

No

Course Designer(s): Diane Boyle, DVM / Pauline Chow, DVM

Education Council / Curriculum Committee Representative

Dean / Director: Dr. Sandy Vanderburgh

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