PATHOBIOLOGY (PABI)

PABI*6000  Bacterial Pathogenesis  Fall Only  [0.50]
An overview of key concepts in bacterial pathogenesis with emphasis on veterinary and zoonotic pathogens.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6030  Applied Clinical Pathology I  Summer, Fall, and Winter  [0.50]
Introduction to laboratory procedures and interpretation of data arising from hematology, cytology, clinical chemistry, urinalysis and hemostasis analysis of clinical material. Intended for students training in clinical pathology and DVM graduates licensed by CVO.
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6040  Applied Clinical Pathology II  Unspecified  [0.50]
A continuation of PABI*6030 with greater depth in the interpretation of data and increased understanding of ancillary diagnostic methods applied in clinical case material. Intended for students training in clinical pathology and DVM graduates licensed by CVO.
Prerequisite(s): PABI*6030
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6041  Applied Clinical Pathology III  Unspecified  [0.50]
A continuation of PABI*6040 with independent and comprehensive interpretation of diagnostic test results, and analysis of laboratory quality assurance quality control procedures. Intended for students training in clinical pathology and DVM graduates licensed by CVO.
Prerequisite(s): PABI*6030 and PABI*6040
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6050  Applied Avian Pathology I  Fall Only  [0.50]
Examination and interpretation of gross and microscopic lesions of domestic poultry. Intended for students training in anatomic pathology and Veterinarians licensed by CVO.
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6060  Applied Avian Pathology II  Winter Only  [0.50]
A continuation of PABI*6050, emphasizing seasonal differences in diseases as well as diseases more commonly associated with winter conditions. Intended for students training in anatomic pathology and Veterinarians licensed by CVO.
Prerequisite(s): PABI*6050
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6070  Applied Avian Pathology III  Summer Only  [0.50]
A continuation of PABI*6060, emphasizing seasonal differences in diseases as well as diseases more commonly associated with summer conditions. Intended for students training in anatomic pathology and Veterinarians licensed by CVO.
Prerequisite(s): PABI*6050 and PABI*6060
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6080  Diagnostic Pathology I  Summer, Fall, and Winter  [0.50]
An introductory course of diagnostic pathology, including all body systems but emphasizing diseases affecting the whole body and respiratory, urinary and digestive (including liver and pancreas) systems. Intended for students in training in anatomic pathology and Veterinarians licensed by CVO, engaged in applied anatomic pathology training.
Prerequisite(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6090  Diagnostic Pathology II  Summer, Fall, and Winter  [0.50]
An intermediate course that builds on the skills acquired in PABI*6080 and further enhances diagnostic veterinary pathology skills to include diseases of the nervous, endocrine and musculoskeletal systems. Intended for students training in anatomic pathology and Veterinarians licensed by CVO, engaged in applied anatomic pathology training.
Prerequisite(s): PABI*6080
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6091  Diagnostic Pathology III  Summer, Fall, and Winter  [0.50]
An advanced course that builds on the skills acquired in PABI*6090 and further enhances diagnostic veterinary pathology skills to include diseases of all organ systems. Intended for students training in anatomic pathology and Veterinarians licensed by CVO, engaged in applied anatomic pathology training.
Prerequisite(s): PABI*6080 and PABI*6090
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6100  Immunobiology  Fall Only  [0.50]
Major areas of immunobiology, including initiation, regulation, receptors, genetics, immune system development and function.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6104  Mechanisms of Disease  Winter Only  [0.50]
Molecular, cellular and tissue processes involved in the pathogenesis of adaptive, degenerative, inflammatory, infectious, proliferative and neoplastic diseases.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6190  Topics in Immunology  Winter Only  [0.50]
Aspects of immune and non-specific host resistance, diagnostic immunology and immune-mediated disease.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6221  Comparative Veterinary Pathology I  Unspecified  [0.50]
Pathological changes associated with diseases of amphibia, reptiles, wild and captive non-domestic birds, and wild mammals including fur-bearers. Intended for students training in anatomic pathology and Veterinarians licensed by CVO.
Offering(s): Offered in even-numbered years.
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph
PABI*6222 Comparative Veterinary Pathology II Unspecified [0.50]
Pathological changes associated with diseases of poultry and pet birds, fish and various laboratory animals.
Offering(s): Offered in even-numbered years.
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6300 Clinical Pathology I Unspecified [0.50]
Principles and applications of veterinary hematology and cytology, with emphasis on the hematopoietic systems. Veterinarians licensed by CVO.
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6320 Clinical Pathology II Winter Only [0.50]
In depth study of principles and applications of biochemical tests to evaluate the function of selected organ systems, including the renal, hepatic, pancreatic and endocrine systems. Veterinarians licensed by CVO.
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6330 Viral Diseases Fall Only [0.50]
A study of important viral diseases of animals, with emphasis on etiology, host responses, diagnosis and control.
Offering(s): Offered in odd-numbered years.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6350 Molecular Epidemiology of Bacterial Diseases Fall Only [0.50]
This is a basic introduction to molecular epidemiology of bacterial diseases. It provides an understanding of molecular epidemiology methodologies and of their use for improving our understanding of infectious diseases epidemiology and control. Lab component requires WHIMIS certificate.
Prerequisite(s): STAT*2040
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6430 Academic and Professional Skills in Pathobiology Summer and Fall [0.00]
Students will be introduced to fundamental elements of scientific research and communication and to various academic skills through lectures, seminars, and completion of in class activities. Throughout the course, relevant ethical, and regulatory issues will be discussed.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6440 MSc Seminar in Pathobiology Summer, Fall, and Winter [0.50]
Students registered in the MSc program will develop a written critical review of the literature and plan for their thesis research. This material will also be presented in the form of a public seminar. Students are also required to provide oral and written critical reviews of thesis plan presentations.
Prerequisite(s): PABI*6430
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6450 Doctoral Seminar in Pathobiology Summer, Fall, and Winter [0.50]
Students registered in the PhD or DVSc programs will develop a written critical review of the literature and plan for their thesis research. This material will also be presented in the form of a public seminar. Students are also required to provide oral and written critical reviews of the thesis plan presentations of other students.
Prerequisite(s): PABI*6430
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6500 Infectious Diseases and Public Health Fall Only [0.50]
Prevention and control of infectious diseases is an important aspect of public health. This course will involve detailed discussion of selected infectious diseases of public health concern, excluding zoonotic diseases. Relevant aspects of microbiology, epidemiology, clinical presentation, diagnosis and treatment will be covered, with additional emphasis on prevention and control.
Restriction(s): Restricted to Public Health students.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6550 Epidemiology of Zoonoses Winter Only [0.50]
Characterization and distribution of diseases common to people and animals.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6560 Principles and Practice of Antimicrobial Therapy Unspecified [0.50]
This course will cover antimicrobial therapy in veterinary medicine, encompassing microbial, pharmacological and clinical aspects of prudent and effective antimicrobial use. Students should hold a DVM degree or equivalent.
Offering(s): Offered in alternate years.
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6630 Applied Comparative Pathology I Unspecified [0.50]
Introductory course in the diagnostic pathology of mammals, birds, reptiles, amphibians, and fish. Cases may be restricted by animal taxa or context (e.g., free-ranging Canadian wildlife, zoological collections, aquaculture). The three-semester course in Applied Comparative Pathology builds in expected level of accomplishment. Intended for students training in anatomic pathology and Veterinarians licensed by CVO.
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph

PABI*6640 Applied Comparative Pathology II Unspecified [0.50]
Intermediate course in the diagnostic pathology of mammals, birds, reptiles, amphibians, and fish. Cases may be restricted by animal taxa or context (e.g., free-ranging Canadian wildlife, zoological collections, aquaculture). The three-semester course in Applied Comparative Pathology builds in expected level of accomplishment. Intended for students training in anatomic pathology and Veterinarians licensed by CVO.
Prerequisite(s): PABI*6630
Restriction(s): Instructor consent required.
Department(s): Department of Pathobiology
Location(s): Guelph
PABI*6650  Applied Comparative Pathology III  Unspecified  [0.50]
Advanced course in the diagnostic pathology of mammals, birds, reptiles,
amphibians, and fish. Cases may be restricted by animal taxa or context
(e.g., free-ranging Canadian wildlife, zoological collections, aquaculture).
The three-semester course in Applied Comparative Pathology builds
in expected level of accomplishment. Intended for students training in
anatomic pathology and Veterinarians licensed by CVO.
Prerequisite(s):  PABI*6630 and PABI*6640
Restriction(s):  Instructor consent required.
Department(s):  Department of Pathobiology
Location(s):  Guelph

PABI*6700  Laboratory Animal Science Unspecified  [0.50]
Basic information on various aspects of laboratory animal science,
including IACUC function, regulatory oversight, ethics, historical review
of animal research, animal models and alternatives, experimental design
and considerations, biology, management and uses of common species
in research.
Restriction(s):  Instructor consent required.
Department(s):  Department of Pathobiology
Location(s):  Guelph

PABI*6710  Applied Laboratory Animal Science I  Unspecified  [0.50]
This course will emphasize practical aspects of laboratory animal
science including research protocol review, writing and reviewing
standard operating procedures, animal monitoring, pathology procedures,
and case management.
Restriction(s):  Instructor consent required.
Department(s):  Department of Pathobiology
Location(s):  Guelph

PABI*6720  Applied Laboratory Animal Science II  Unspecified  [0.50]
Continuation of I with emphasis on biohazard and personnel safety,
monitoring for disease, quality control and diagnostic procedures.
Restriction(s):  Instructor consent required.
Department(s):  Department of Pathobiology
Location(s):  Guelph

PABI*6730  Applied Laboratory Animal Science III  Unspecified  [0.50]
Continuation of I and II, with emphasis on a comparison of programs and
procedures in other facilities in Canada, nonhuman primate medicine, and
surgical, clinical and necropsy procedures.
Restriction(s):  Instructor consent required.
Department(s):  Department of Pathobiology
Location(s):  Guelph

PABI*6740  Avian Diseases  Unspecified  [0.50]
Detailed study of recent concepts of preventive medicine, diagnosis
and therapeutics as applied to clinical recognition and control of avian
diseases.
Restriction(s):  Instructor consent required.
Department(s):  Department of Pathobiology
Location(s):  Guelph

PABI*6960  Special Topics in Pathobiology  Summer, Fall, and
Winter  [0.50]
In-depth independent study of subjects related to student’s principal area
of interest. Major paper(s), laboratory studies, and/or written and oral
examination, with or without seminar preparation.
Restriction(s):  Instructor consent required.
Department(s):  Department of Pathobiology
Location(s):  Guelph