2016-2017 Graduate Calendar

The information published in this Graduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2016-2017 academic years, including the Summer Semester 2016, Fall Semester 2016 and the Winter Semester 2017.

For your convenience the Graduate Calendar is available in PDF format.

If you wish to link to the Graduate Calendar please refer to the Linking Guidelines.

The University is a full member of:

• The Association of Universities and Colleges of Canada

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January 31, 2017	Revision



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Disclaimer

The Office of Graduate Studies has attempted to ensure the accuracy of this on-line Graduate Calendar. However, the publication of information in this document does not bind the university to the provision of courses, programs, schedules of studies, fees, or facilities as listed herein.

Limitations

The University of Guelph reserves the right to change without notice any information contained in this calendar, including any rule or regulation pertaining to the standards for admission to, the requirements for the continuation of study in, and the requirements for the granting of degrees or diplomas in any or all of its programs.

The university will not be liable for any interruption in, or cancellation of, any academic activities as set forth in this calendar and related information where such interruption is caused by fire, strike, lock-out, inability to procure materials or trades, restrictive laws or governmental regulations, actions taken by the faculty, staff or students of the university or by others, civil unrest or disobedience, Public Health Emergencies, or any other cause of any kind beyond the reasonable control of the university.

The University of Guelph reaffirms section 1 of the Ontario Human Rights Code, 1981, which prohibits discrimination on the grounds of race, ancestry, place of origin, colour, ethnic origin, citizenship, creed, sex, sexual orientation, handicap, age, marital status or family status.

The university encourages applications from women, aboriginal peoples, visible minorities, persons with disabilities, and members of other under-represented groups.

Collection, Use and Disclosure of Personal Information

Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (FIPPA) http://www.e-laws.gov.on.ca/DBLaws/Statutes/English/90f31_e.htm. This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes. Certain personal information is disclosed to external agencies, including the Ontario Universities Application Centre, the Ministry of Training, Colleges and Universities, and Statistics Canada, for statistical and planning purposes, and is disclosed to other individuals or organizations in accordance with the Office of Registrarial Services Departmental Policy on the Release of Student Information. For details on the use and disclosure of this information call the Office of Registrarial Services at the University at (519) 824-4120 or see https://www.uoguelph.ca/registrar/

Statistics Canada - Notification of Disclosure

For further information, please see Statistics Canada's web site at http://www.statcan.gc.ca and Section XIV Statistics Canada.

Address for University Communication

Depending on the nature and timing of the communication, the University may use one of these addresses to communicate with students. Students are, therefore, responsible for checking all of the following on a regular basis:

Email Address

The University issued email address is considered an official means of communication with the student and will be used for correspondence from the University. Students are responsible for monitoring their University-issued email account regularly.

Home Address

Students are responsible for maintaining a current mailing address with the University. Address changes can be made, in writing, through the Office of Graduate Studies.

Name Changes

The University of Guelph is committed to the integrity of its student records, therefore, each student is required to provide either on application for admission or on personal data forms required for registration, his/her complete, legal name. Any requests to change a name, by means of alteration, deletion, substitution or addition, must be accompanied by appropriate supporting documentation.

Student Confidentiality and Release of Student Information Policy Excerpt

The University undertakes to protect the privacy of each student and the confidentiality of his or her record. To this end the University shall refuse to disclose personal information to any person other than the individual to whom the information relates where disclosure would constitute an unjustified invasion of the personal privacy of that person or of any other individual. All members of the University community must respect the confidential nature of the student information which they acquire in the course of their work. Complete policy at http://www.uoguelph.ca/policies.

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 Bonnie A. Mallard Bosc, MSc, PhD Guelph - Professor Éva Nagy DVM, PhD, DSc Budapest - Professor Nicole Nemeth DVM, PhD Colorado State University - Assistant Professor Andrew S. Peregrine BVMS, PhD, DVM (Hons.) Glasgow, Diplomate EVPC, Diplomate ACVM - Associate Professor Brandon L. Plattner BSc, DVM Kansas State, PhD Iowa State, Diplomate ACVP - Assistant Professor Shayan Sharif DVM Tehran, PhD Guelph - Professor DVM Tehran, PhD Guelph - Professor 		
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Éva Nagy DVM, PhD, DSc Budapest - ProfessorDegree RequirementsNicole Nemeth DVM, PhD Colorado State University - Assistant ProfessorStudents must complete at least 1.5 credits of prescribed courses with at least a 'B ' average,and must satisfactorily write and defend a research thesis. Prescribed courses and additional courses are selected by the student in consultation with the advisor and advisory committee based on the student's background and their research and career objectives. The Academic and Professional Skills in Pathobiology course PABI*6430 and the MSc Seminar in Pathobiology course and PABI*6440 are prescribed for all MSc students. The thesis research is planned by the student in consultation with the advisor. Research plans and progress must be approved by the advisory committee of graduate faculty members.DVM Tehran, PhD Guelph - ProfessorStudents must complete at least 1.5 credits of prescribed courses with at least a 'B' average,and must satisfactorily write and defend a research thesis. Prescribed courses and additional courses are selected by the student in consultation with the advisory committee based on the student's background and their research and career objectives. The Academic and Professional Skills in Pathobiology course PABI*6430 and the MSc Seminar in Pathobiology course and PABI*6440 are prescribed for all MSc students. The thesis research is planned by the student in consultation with the advisor. Research plans and progress must be approved by the advisory committee of graduate faculty members.		
DVM, PhD, DSc Budapest - Professor Nicole Nemeth DVM, PhD Colorado State University - Assistant Professor Andrew S. Peregrine BVMS, PhD, DVM (Hons.) Glasgow, Diplomate EVPC, Diplomate ACVM - Associate Professor Brandon L. Plattner BSc, DVM Kansas State, PhD Iowa State, Diplomate ACVP - Assistant Professor Shayan Sharif DVM Tehran, PhD Guelph - Professor DVM Tehran, PhD Guelph - Professor		•
Nuclei VenienDVM, PhD Colorado State University - Assistant ProfessorAndrew S. PeregrineBVMS, PhD, DVM (Hons.) Glasgow, Diplomate EVPC, Diplomate ACVM - AssociateProfessorBrandon L. PlattnerBSc, DVM Kansas State, PhD Iowa State, Diplomate ACVP - Assistant ProfessorShayan SharifDVM Tehran, PhD Guelph - Professor		
Andrew S. Peregrine BVMS, PhD, DVM (Hons.) Glasgow, Diplomate EVPC, Diplomate ACVM - Associate Professor Brandon L. Plattner BSc, DVM Kansas State, PhD Iowa State, Diplomate ACVP - Assistant Professor Shayan Sharif DVM Tehran, PhD Guelph - Professor	Nicole Nemeth	
Andrew S. Peregrine BVMS, PhD, DVM (Hons.) Glasgow, Diplomate EVPC, Diplomate ACVM - Associate Professor Brandon L. Plattner BSc, DVM Kansas State, PhD Iowa State, Diplomate ACVP - Assistant Professor Shayan Sharif DVM Tehran, PhD Guelph - Professor Committee based on the student's background and their research and career objectives. The Academic and Professional Skills in Pathobiology course PABI*6430 and the MSc Seminar in Pathobiology course and PABI*6440 are prescribed for all MSc students. The thesis research is planned by the student in consultation with the advisor. Research plans and progress must be approved by the advisory committee of graduate faculty members.	DVM, PhD Colorado State University - Assistant Professor	• •
BVMS, PhD, DVM (Hons.) Glasgow, Diplomate EVPC, Diplomate ACVM - Associate Professor Brandon L. Plattner BSc, DVM Kansas State, PhD Iowa State, Diplomate ACVP - Assistant Professor Shayan Sharif DVM Tehran, PhD Guelph - Professor	•	
Brandon L. Plattner BSc, DVM Kansas State, PhD Iowa State, Diplomate ACVP - Assistant Professor Shayan Sharif DVM Tehran, PhD Guelph - Professor		The Academic and Professional Skills in Pathobiology course PABI*6430 and the MSc
BSc, DVM Kansas State, PhD Iowa State, Diplomate ACVP - Assistant Professor Shayan Sharif DVM Tehran, PhD Guelph - Professor 		
Shayan Sharif a seminar presentation and a final oral examination by a committee of graduate faculty members. DVM Tehran, PhD Guelph - Professor members.		
DVM Tehran, PhD Guelph - Professor members.	•	
January 31, 2017 2016-2017 Graduate Calendar		
January 31, 2017 2016-2017 Graduate Calendar		
	January 31, 2017	2016-2017 Graduate Calendar

las Ogden Liverpool, DPhil Oxford - Senior Research Scientist, Public Health Agency of
a
Parmley Saskatchewan, PhD Guelph - Veterinary Epidemiologist, Public Heath Agency of a, Guelph
Prescott MA, VETMB, PhD Cambridge - University Professor Emeritus, Pathobiology, rsity of Guelph
Stephen , PhD Saskatchewan - Professor, Centre for Coastal Health, Nanaimo
a Slavic Zagreb, MSc, PhD Guelph - Veterinary Bacteriologist, Animal Health Laboratory, rsity of Guelph
A. Smith DVSc Guelph - Retired Faculty, Pathobiology, University of Guelph
Program
ISc program is offered in four fields: 1) comparative pathology; 2) immunology; erinary infectious diseases; and 4) veterinary pathology. The primary objective is vide students with training in conceptual and laboratory aspects of research, combined dvanced training in a field of knowledge relating to manifestations, basic mechanisms ost resistance for diseases of vertebrates.
ission Requirements
cants should have either a an honours degree in biological sciences with at least a rage during the final 2 years of the program, or a DVM (or equivalent) degree with at a 'B' average over the four years of the program. In either case, performance in nt biomedical science courses, (e.g. microbiology, immunology, biochemistry, ular biology, etc.) at a level above the minimum 'B' average is normally expected. asion requires a statement of the applicant's interests and objectives and supportive of reference. An appropriate faculty advisor must be identified, as well as potential as of funds for research and for provision of a stipend for the student. Applications e submitted at any time. Initial enrolment can be in the Fall, Winter or Summer ters, with a preference for the Fall.
ree Requirements
hts must complete at least 1.5 credits of prescribed courses with at least a 'B ' ge, and must satisfactorily write and defend a research thesis. Prescribed courses and onal courses are selected by the student in consultation with the advisor and advisory ittee based on the student's background and their research and career objectives. cademic and Professional Skills in Pathobiology course PABI*6430 and the MSc ar in Pathobiology course and PABI*6440 are prescribed for all MSc students. The research is planned by the student in consultation with the advisor. Research plans ogress must be approved by the advisory committee. The thesis defence includes in ar presentation and a final oral examination by a committee of graduate faculty ers.
2016-2017 Graduate Calendar
2010-2017 Graduate Calendar

PhD Program

The PhD program is offered in four fields: 1) comparative pathology; 2) immunology; 3) veterinary infectious diseases; and 4) veterinary pathology. The program is designed primarily for students who aspire to a career involving research on the biology of mechanisms of diseases in vertebrates. The program provides advanced training in conceptual and laboratory aspects of independent research, combined with advanced training in one or more fields of knowledge. The major emphasis is on the generation and critical evaluation of scientific knowledge relating to the causes, mechanisms and/or consequences of diseases affecting a particular species, organ system or biological process or to the understanding of host resistance and basic mechanisms of health or disease in vertebrates. DVM (or equivalent) graduates may obtain some of the practical experience required for specialty certification in veterinary anatomic pathology, clinical pathology, laboratory animal science, microbiology or parasitology.

Admission Requirements

The usual requirement for admission to the PhD program is the completion of an approved MSc degree with a minimum 'B+' average and strongly supportive letters from referees familiar with the background of the applicant. Performance in relevant biomedical science courses, (e.g. microbiology, immunology, biochemistry, molecular biology, etc) at a level above the 'B+' average is normally expected. Students may apply for admission into the PhD program before completing the MSc program, providing that they have a minimum 'A' average and a demonstrated capacity for independent research. Some students with demonstrated potential for independent research and a superior academic record during their baccalaureate or DVM programs may be admitted directly into the PhD program.

Admission requires a statement of the applicant's interests and objectives and supportive letters of reference. An appropriate faculty advisor must be identified, as well as potential sources of funds for research and provision of a stipend for the student. Applications may be submitted at any time. Initial enrolment can be in the Fall, Winter or Summer semesters, with a preference for the Fall.

Degree Requirements

Students must have successfully completed the Academic and Professional Skills in Pathobiology course PABI*6430 and the Doctoral Seminar in Pathobiology course PABI*6450, and have obtained at least a 'B ' average in all courses prescribed by the advisory committee. There are no other specific course requirements. Prescribed courses and additional courses are selected by the student in consultation with the advisor and advisory committee based on the student's background, their research and career objectives. Students are required to satisfactorily complete a qualifying examination before the end of the fifth semester if they possess an MSc degree, or before the end of the seventh semester if they possess an honours baccalaureate or DVM degree. The qualifying examination is conducted by a committee of graduate faculty members with expertise in the areas of study, and includes written and oral components. The qualifying examination covers a breadth of knowledge of topics related to the student's research area, and depth of knowledge within this research area. To successfully complete the examination, students must have a broad general understanding of one of the departmental fields of study, and a current and detailed understanding of one or two additional areas in their field of study. The advisory committee identifies selected areas of study by the end of the second semester. In addition, the advisory committee is required to confirm that the student has demonstrated both ability and promise in research. This is based on performance in the research project and in courses and other academic activities.

The thesis research is planned by the student in consultation with the advisor. The proposed thesis research is developed and defended as part of the course PABI*6450, the Doctoral Seminar in Pathobiology. Research plans and progress must be approved by the advisory committee. The program is completed with the satisfactory presentation and defence of a thesis, which includes a seminar presentation and a final oral examination by a committee that includes an external examiner and members of the graduate faculty.

See also the Degree Regulations in the Graduate Calendar.

DVSc Program

The Department of Pathobiology participates in the DVSc program which provides advanced training in a specialty discipline of veterinary medicine, combined with course work and a thesis-based research project. Specialty training is offered in the areas of veterinary anatomic pathology, veterinary clinical pathology, veterinary clinical microbiology, laboratory animal science, wildlife and zoo animal medicine and pathology, avian and exotic medicine and pathology, and fish pathology. The research project addresses an applied aspect of an important disease problem in vertebrates. The program provides practical training for candidates preparing for specialty board certification in veterinary anatomic pathology, veterinary clinical pathology, laboratory animal science or veterinary clinical microbiology. Refer to the Degree Regulations in the Graduate calendar for more information.

Admission Requirements

Applicants require a DVM (or equivalent) degree with high academic standing from a program that provides eligibility for the practice of veterinary medicine in Ontario. Alternatively, applicants with a DVM (or equivalent) degree can be admitted after completion of an acceptable graduate diploma, MSc, or PhD degree with an upper 'B' average. Admission requires the identification of a faculty advisor and a source of personal support for the student. If these have not been arranged by the applicant, a statement of the applicant's interests and objectives and supportive letters of reference are required to assist with the identification of an appropriate faculty advisor and potential sources of funds for research and student stipend. Several stipends for DVSc candidates are available intermittently for training in some disciplines. As these funds become available, stipends are awarded to the most qualified applicant(s) based on completed applications for admission to the DVSc program. Applications may be submitted at any time. Initial enrolment can be in the Fall, Winter or Summer semesters.

Degree Requirements

The degree requires a minimum of nine semesters of full-time study; the completion of at least 2.5 credits in courses prescribed by the student's advisory committee including completion of the department's graduate seminar course, with an overall average of at least 'B-', and satisfactory completion of a qualifying examination, thesis and final oral examination.

See also the Degree Regulations in the Graduate Calendar.

Collaborative Specializations

Toxicology

The Department of Pathobiology participates in the MSc collaborative specialization in toxicology. The faculty members' research and teaching expertise includes aspects of toxicology; they may serve as advisors for MSc students.

Please consult the Toxicology listing for a detailed description of the MSc collaborative specialization.

Graduate Diploma Program

The diploma program is offered in four fields: 1) comparative pathology; 2) immunology; 3) veterinary infectious diseases; and 4) veterinary pathology. The objective is to provide advanced practical training in a field of veterinary pathology to veterinarians working in industry, government or in private practice. The program emphasizes practical and course-based applied training in anatomic pathology, clinical pathology, avian medicine and pathology, laboratory animal science, or wildlife and zoo animal pathology. The Diploma program does not normally result in eligibility for specialty certification.

Admission Requirements

Applicants require a DVM (or equivalent) degree with acceptable academic standing. Admission requires the prior identification of a faculty advisor and a source of personal support for the student.

Diploma Requirements

The Graduate Diploma requires three semesters of full time study and completion of 1.5 credits of prescribed courses, including 0.5 credits in an applied course and no more than 0.5 credits in a Special Topics course. The remaining credits may be in the defined area of study, as prescribed by the faculty advisor. Diploma students must satisfactorily pass a final oral comprehensive examination on knowledge in their field of study. It will be conducted by faculty members in the Department of Pathobiology. There is no thesis, but students are required to write a paper that the advisor considers ready for submission to a peer reviewed scientific journal.

See also the Graduate Diploma Regulations of the Faculty of Graduate Studies.

Courses

General

PABI*6440 Graduate Seminar in Pathobiology S,F,W [0.50]

Following discussions of approaches to scientific research and communication, students will develop and submit a thorough written critical review of the literature on an agreed upon topic, and a detailed research proposal in the same topic area. This material will also be presented in the form of a public seminar.

Department(s): Department of Pathobiology

PABI*6960 Special Topics in Pathobiology F,W,S [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

Comparative Pathology		PABI*6700 Laboratory Animal Science U [0.50]	
PABI*6050 Applied Avian Pathology I F [0.50]		Basic information on various aspects of laboratory animal science, including IACUC	
Examination and	d interpretation of gross and microscopic lesions of domestic poultry.	function, regulatory oversight, ethics, historical review of animal research, animal models and alternatives, experimental design and considerations, biology, management and uses	
Restriction(s):	Instructor consent required. Veterinarians licensed by CVO. Students	of common species in research.	
	who are not DVM students and/or do not have a protective rabies titre	<i>Restriction(s):</i> Instructor consent required.	
Department(s):	need instructors permission. Department of Pathobiology	Department(s): Department of Pathobiology	
· · ·	blied Avian Pathology II W [0.50]	PABI*6710 Applied Laboratory Animal Science I U [0.50]	
	of PABI*6050, emphasizing seasonal differences in diseases as well as	This course will emphasize practical aspects of laboratory animal science including	
	ommonly associated with winter conditions.	research protocol review, writing and reviewing standard operating procedures, animal	
Prerequisite(s):		monitoring, pathology procedures, and case management.	
Restriction(s):	Instructor consent required. Veterinarians licensed by CVO. Students	Restriction(s): Instructor consent required. Department(s): Department of Pathobiology	
	who are not DVM students and/or do not have a protective rabies titre		
Department(s):	need instructors permission. Department of Pathobiology	PABI*6720 Applied Laboratory Animal Science II U [0.50]	
	blied Avian Pathology III S [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.	
	of PABI*6060, emphasizing seasonal differences in diseases as well as ommonly associated with summer conditions.	Department(s): Department of Pathobiology	
	PABI*6050 and PABI*6060	PABI*6730 Applied Laboratory Animal Science III U [0.50]	
Restriction(s):	Instructor consent required. Veterinarians licensed by CVO. Students	Continuation of I and II, with emphasis on a comparison of programs and procedures in	
	who are not DVM students and/or do not have a protective rabies titre	other facilities in Canada, nonhuman primate medicine, and surgical, clinical and necropsy	
Department(s):	need instructors permission. Department of Pathobiology	procedures.	
		Restriction(s): Instructor consent required.	
	nparative Veterinary Pathology I U [0.50]	Department(s): Department of Pathobiology	
	anges associated with diseases of amphibia, reptiles, wild and captive rds, and wild mammals including fur-bearers.	PABI*6740 Avian Diseases U [0.50]	
Offering(s):	Offered in even-numbered years.	Detailed study of recent concepts of preventive medicine, diagnosis and therapeutics as	
Restriction(s):	Instructor consent required. Students who are not DVM students and/or	applied to clinical recognition and control of avian diseases.	
	do not have a protective rabies titre need instructors permission.	Restriction(s): Instructor consent required. Department(s): Department of Pathobiology	
Department(s):	Department of Pathobiology	Immunology	
	nparative Veterinary Pathology II U [0.50]		
	nges associated with diseases of poultry and pet birds, fish and various	PABI*6100 Immunobiology F [0.50]	
laboratory anima		Major areas of immunology, including initiation, regulation, receptors, genetics, immune system development and function.	
Offering(s): Restriction(s):	Offered in even-numbered years. Instructor consent required.	Department(s): Department of Pathobiology	
Department(s):	Department of Pathobiology	PABI*6190 Topics in Immunology W [0.50]	
PABI*6630 App	blied Comparative Pathology I S,F,W [0.50]	Aspects of immune and non-specific host resistance, diagnostic immunology and	
	urse in diagnostic pathology of mammals, birds, reptiles, amphibians,	immune-mediated disease.	
and fish. Cases n	nay be restricted by animal taxa or context (e.g., free-ranging Canadian	Department(s): Department of Pathobiology	
wildlife, zoological collections, aquaculture). The three Applied Comparative Pathology		Veterinary Infectious Diseases	
	expected level of accomplishment.	PABI*6000 Bacterial Pathogenesis F [0.50]	
Restriction(s):	Veterinarians licensed by CVO. Students who are not DVM students and/or do not have a protective rabies titre need instructors permission.	An overview of key concepts in bacterial pathogenesis with emphasis on veterinary and	
Department(s):	Department of Pathobiology	zoonotic pathogens.	
PABI*6640 Apr	blied Comparative Pathology II S,F,W [0.50]	Department(s): Department of Pathobiology	
	urse in diagnostic pathology of mammals, birds, reptiles, amphibians,	PABI*6330 Viral Diseases F [0.50]	
and fish. Cases n	nay be restricted by animal taxa or context (e.g., free-ranging Canadian	A study of important viral diseases of animals, with emphasis on etiology, host responses,	
	ical collections, aquaculture). The three Applied Comparative Pathology	diagnosis and control.	
	expected level of accomplishment	Offering(s): Offered in odd-numbered years. Department(s): Department of Pathobiology	
Prerequisite(s): Restriction(s):	PABI*6630 Veterinarians licensed by CVO. Students who are not DVM students		
contenentis).	and/or do not have a protective rabies titre need instructors permission.	PABI*6350 Molecular Epidemiology of Bacterial Diseases F [0.50]	
Department(s):	Department of Pathobiology	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	
PABI*6650 Applied Comparative Pathology III S,F,W [0.50]		our understanding of infectious diseases epidemiology and control.	
Advanced course in the diagnostic pathology of mammals, birds, reptiles, amphibians,		Prerequisite(s): STAT*2040 Statistics I	
and fish. Cases may be restricted by animal taxa or context (e.g., free-ranging Canadian		Restriction(s): Lab component: limited number of participants and WHIMIS certificate	
	ical collections, aquaculture). The three Applied Comparative Pathology expected level of accomplishment.	compulsory.	
Prerequisite(s):		Department(s): Department of Pathobiology	
<i>Prerequisite(s):</i> <i>Restriction(s):</i>	Veterinarians licensed by CVO. Students who are not DVM students	PABI*6550 Epidemiology of Zoonoses W [0.50]	
	and/or do not have a protective rabies titre need instructors permission.	Characterization and distribution of diseases common to people and animals.	
Department(s):	Department of Pathobiology	Department(s): Department of Pathobiology	

Veterinary P	athology
PABI*6030 App	lied Clinical Pathology I F,W,S [0.50]
cytology, clinica	boratory procedures and interpretation of data arising from hematology, al chemistry, urinalysis and hemostatis analysis of clinical material dents training in clinical pathology.)
Restriction(s): Department(s):	Veterinarians licensed by CVO. Department of Pathobiology
PABI*6040 App	lied Clinical Pathology II U [0.50]
	f PABI*6030 with greater depth in the interpretation of data and increased
understanding of	ancillary diagnostic methods applied in clinical case material. (Intended aining in clinical pathology).
Prerequisite(s): Restriction(s): Department(s):	PABI*6030 Veterinarians licensed by CVO. Department of Pathobiology
PABI*6041 App	lied Clinical Pathology III U [0.50]
diagnostic test r	of PABI*6040 with independent and comprehensive interpretation of results, and analysis of laboratory quality assurance quality control ended for students training in clinical pathology)
Prerequisite(s): Restriction(s): Department(s):	PABI*6030 and PABI*6040 Veterinarians licensed by CVO. Department of Pathobiology
	gnostic Pathology I S,F,W [0.50]
	course of diagnostic pathology, including all body systems but
emphasizing dis	eases affecting the whole body and respiratory, urinary and digestive and pancreas) systems. (Intended for students in training in anatomic
Restriction(s):	Instructor consent required. Veterinarians licensed by CVO, engaged in applied anatomic pathology training
Department(s):	Department of Pathobiology
PABI*6090 Dias	gnostic Pathology II S,F,W [0.50]
enhances diagno	course that builds on the skills acquired in PABI*6080 and further ostic veterinary pathology skills to include diseases of the nervous, nusculoskeletal systems. (Intended for students training in anatomic
Prerequisite(s): Restriction(s):	PABI*6080 Veterinarians licensed by CVO, engaged in applied anatomic pathology
Department(s):	training Department of Pathobiology
PABI*6091 Dia	gnostic Pathology III S,F,W [0.50]
	urse that builds on the skills acquired in PABI*6090 and further enhances
diagnostic veteri for students train	nary pathology skills to include diseases of all organ systems. (Intended ing in anatomic pathology.)
Prerequisite(s): Restriction(s):	Veterinarians licensed by CVO, engaged in applied anatomic pathology training
Department(s):	Department of Pathobiology
	chanisms of Disease W [0.50]
degenerative, inf	lar and tissue processes involved in the pathogenesis of adaptive, lammatory, infectious, proliferative and neoplastic diseases.
Department(s):	Department of Pathobiology
PABI*6300 Clin	ical Pathology I U [0.50]
hematopoietic sy	pplications of veterinary hematology and cytology, with emphasis on the /stems.
Restriction(s):	Veterinarians licensed by CVO.
Department(s):	Department of Pathobiology
	nical Pathology II W [0.50]
of selected organ	principles and applications of biochemical tests to evaluate the function systems, including the renal, hepatic, pancreatic and endocrine systems.
Prerequisite(s):	PABI*6300 Veteringging liggged by CVO
Restriction(s): Department(s):	Veterinarians licensed by CVO. Department of Pathobiology