

**Department of Veterinary Preventive Medicine
Veterinary Public Health Specialization**

**Epidemiology of Zoonoses and diseases common to animals and humans.
(Formerly: VPM 796.04 Zoonotic Diseases)**

**VPM 721
4 Credit Hours**

**Course Syllabus
Fall Quarter 2007**

Course Leaders:

Dr. Armando E Hoet, Sisson Hall, A100Q, 292-0684, hoet.1@osu.edu (Team Leader)

Dr. Thomas Wittum, Sisson Hall, A100S, 292-8157, wittum.1@osu.edu

Description:

This course is focused on describing the basic epidemiology of common and important Zoonotic diseases. Instruction will emphasize the use of such knowledge in the establishment of preventive and control strategies specific for these zoonoses. The importance of safeguarding animal and public health from such diseases will be highlighted throughout the course. This course is divided into two major sections; the aim of the first section is to develop an understanding of important concepts on animal infectious diseases, such as definitions and categories of zoonoses, causation and disease association, regulatory agencies and zoonotic diseases, diagnostic techniques, and other related topics. The second section will be a comprehensive review of the most common zoonotic diseases that can be transmitted to humans. For each disease, students will learn the etiologic agent, epidemiology, the most common manifestations of the disease in humans and animals, diagnostic procedures for detection, as well as preventive and control measures related to each zoonoses. Special topics about VPH and small animal populations, wildlife, and laboratory animals will be also covered.

Course Objectives

After completion of this course, the students should:

- understand basic concepts and definitions of zoonoses and diseases common to animals and humans.
- know the most common zoonotic diseases with respect to their etiology, epidemiology, as well as specific preventive and control measures.

Course Format:

The teaching strategy of this course will be based primarily on lectures. Throughout the course several Faculty from the Veterinary Preventive Medicine Department and invited guest lecturers will teach the different classes. Their names and contact information can be found below in the Course Syllabus. Assigned readings could be used to expand the information in a specific pertinent topic.

Course Syllabus:

Week	Date	Lecture	Instructor	Contact Information
I	September 20	Introduction to VPH 1	(0.5 hr) Dr. Hoet	hoet.1@osu.edu
		Basics about pathogens	(0.5 hr) Dr. Hoet	
	September 20	General Concepts in Infectious Animal Diseases	(1 hr) Dr. Hoet	
II	September 25	Definition and Classification of Zoonoses	(2 hr) Dr. Hoet	
	September 27	Recognition of an Infectious Disease	(1 hr) Dr. Wittum	wittum.1@osu.edu
	September 27	Regulatory Agencies and Zoonotic Diseases	(1 hr) Dr. Hoet	
III	October 02	Diagnostic Techniques and Infectious Diseases	(1 hr) Dr. Hoet	Homework Assignment
	October 02	Properties of Diagnostic and Screening Tests	(1 hr) Dr. Wittum	
	October 04	Avian Influenza	(2 hrs) Dr. Lee	lee.2854@osu.edu
IV	October 09	Rabies: Etiologic agent and the disease	(1 hr) Dr. Hoet	
	October 09	Rabies: Prevention and Control	(1 hr) Dr. Smith	Kathy.Smith@odh.ohio.gov
	October 11	Anthrax	(1 hr) Dr. Meiring	meiring.5@osu.edu
	October 11	1 st Exam	(1 hr)	Basic to Screen. 7.5 hrs
V	October 16	Prion Diseases	(2 hr) Dr. Shulaw	shulaw.1@osu.edu
	October 18	Hantavirus	(1 hr) Dr. Hoet	
	October 18	Leptospirosis	(1 hr) Dr. Hoet	
VI	October 23	Arthropod-borne Viral Encephalitis	(1 hr) Dr. Saville	saville.4@osu.edu
	October 23	Surveillance of arthropod-borne diseases and mosquito control	(1 hr) Dr. Ortiz	Diana.Ortiz@odh.ohio.gov
	October 25	Rocky Mountain Spotted Fever and Q Fever	(1 hr) Dr. Rajala-Shultz	rajala-schultz.1@osu.edu
	October 25	Lyme Disease and Tularemia	(1 hr) Dr. Rajala-Shultz	
VII	October 30	Brucellosis and eradication programs	(1 hr) Dr. Hoet	
	October 30	Zoonotic Tuberculosis	(1 hr) Dr. Shulaw	
	November 1	Malaria	(1 hr) Dr. Wittum	
	November 1	2 nd Exam	(1 hr)	AI to Leptospira 9 hrs
VIII	November 6	Plague	(1 hr) Dr. Wittum	
	November 6	Toxoplasmosis	(1 hr) Dr. Monahan	monahan.19@osu.edu
	November 8	Companion Animals and Zoonotic Issues	(2 hrs) Dr. Lord	lord.19@osu.edu
IX	November 13	Public Health Issues in Laboratory Animal Populations	(2 hrs) Dr. Hickman and Dr. Kraly	hickman-davis.2@osu.edu kraly.4@osu.edu
	November 15	3 rd Exam	(1 hr)	Encephal to Toxo 9 hrs
	November 15	SARS	(1 hr) Dr. Saif	saif.2@osu.edu
X	November 20	Emerging Diseases in Wild Animal Populations	(2 hrs) Dr. Denison	dennis.129@osu.edu
	November 22	Thanksgiving Day	No Classes	
XI	November 27	Mycoses	(1 hr) Dr. Hillier	hillier.4@osu.edu
	November 27	MRSA	(1 hr) Dr. Hoet	
	December 4-6	4 th Exam	(1 hr)	Companion to MRSA

Grading and Exams:

The grade points will be distributed in four exams, which will be based on the lectures course (34.5 hrs). Final course grades will be composed as follows:

1 st Exam	(7.5 hrs)	20%
2 nd Exam	(9 hrs)	25 %
3 rd Exam	(9 hrs)	25 %
4 th Exam	(9 hrs)	25 %
Class participation		5 %

The following grading scheme will be used: 90-100% =A; 80-89% =B; 70-79% =C; 65-69 =D; 0-64 =E

Meeting Place and Time:

A180 Sisson Hall

Department of Veterinary Medicine

Tuesdays and Thursdays from 8:30 to 10:18 am

Recommended Reading:

- Acha, P.N., Szyfres B. Zoonoses and Communicable Diseases common to Man and Animals. 3rd Edition. Volume I. Bacterioses and Mycoses. Scientific and Technical Publication No. 580. Pan American Health Organization. Washington, DC. 2003.
- Acha, P.N., Szyfres B. Zoonoses and Communicable Diseases common to Man and Animals. 3rd Edition. Volume II. Chlamydioses, Rickettsioses, and Viroses. Scientific and Technical Publication No. 580. Pan American Health Organization. Washington, DC. 2003.
- Acha, P.N., Szyfres B. Zoonoses and Communicable Diseases common to Man and Animals. 3rd Edition. Volume III. Parasitoses. Scientific and Technical Publication No. 580. Pan American Health Organization. Washington, DC. 2003.
- Heymann, D.L. Control of Communicable Diseases Manual. 18th edition. American Public Health Association. Washington, DC. 2004.

Accommodation for Special Needs

If you need an accommodation based on the impact of a disability, you should contact me to arrange an appointment as soon as possible. At the appointment we can discuss the course format, anticipate your needs and explore potential accommodations. I rely on the Office for Disability Services for assistance in verifying the need for accommodations and developing accommodation strategies. If you believe you need accommodation and have not previously contacted the Office for Disability Services, I encourage you to do so (more information available at <http://www.ods.ohio-state.edu/>).

Academic Integrity

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other education and scholarly activities. Thus, The Ohio State University, the College of Veterinary Medicine, the College of Public Health, and the Committee on Academic Misconduct (COAM) expect that all students have read and understood the University's *Code of Student Conduct* and the School's *Student Handbook*, and that all students will complete all academic and scholarly assignments with fairness and honesty. The *Code of Student Conduct* and other information on academic integrity and academic misconduct can be found at the COAM web pages (<http://oaa.osu.edu/coam/home.html>). Students must recognize that failure to follow the rules and guidelines established in the University's *Code of Student Conduct*, the *Student Handbook*, and in the syllabi for their courses may constitute "Academic Misconduct."

The Ohio State University's *Code of Student Conduct* (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the University, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Please note that the use of material from the Internet without appropriate acknowledgement and complete citation is plagiarism just as it would be if the source were printed material. Further examples are found in the *Student Handbook*. Ignorance of the *Code of Student Conduct* and the *Student Handbook* is never considered an "excuse" for academic misconduct.

If I suspect a student of academic misconduct in a course, I am obligated by University Rules to report these suspicions to the University's Committee on Academic Misconduct. If COAM determines that the student has violated the University's *Code of Student Conduct* (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in the course and suspension or dismissal from the University. If you have any questions about the above policy or what constitutes academic misconduct in this course, please see me.