

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

**Emerging Zoonotic Diseases in a Global Context**

**VPM 696**

**2 Credit Hours (G)**

**Call Number 24007**

**Course Syllabus  
Spring Quarter 2011**

**Course Leader:**

Dr. Armando E Hoet, Sisson Hall, A100Q, (614) 292-0684, [hoet.1@osu.edu](mailto:hoet.1@osu.edu)

**Course Description:**

This course is designed to provide an overview of the most important Zoonotic Diseases (ZD) emerging and re-emerging in different geographical regions of the world. Diseases will be described with special emphasis on their local and regional epidemiology, transmission, updated statistics, and any recent outbreak information. Specific preventive and control measures for each disease applied in the different geographical areas will be discussed. The most important differences with the US will be highlighted with potential impact should a particular exotic disease occur in this country. Specific risk assessment of possible entry and/or outbreak emergence of such diseases in the U.S. will be also discussed.

**Course Objectives:**

After completion of this course, students should:

- Recognize the most common emerging and re-emerging Zoonotic Diseases around the world.
- Be aware of the risk that such diseases represent to the human and animal health worldwide and in the United States, as well as their possible social, political and economical impact.

**Course Format:**

The teaching strategy for this course will be based primarily on student seminars, in which each student will be assigned a specific geographical region, from which he/she will describe the 2 most important Emerging Zoonotic Diseases in a 30-minutes presentation. Each week, one geographical region will be discussed. Students will briefly describe the epidemiological data (distribution, prevalence, incidence, outbreaks, morbidity, mortality, etc) and major epidemiological differences of such diseases, highlighting differences as well as potential risks for the U.S. Other participants will bring at least one peer reviewed paper related to a ZD of public health significance from the particular geographical area under discussion, and will share their findings from the selected paper in an open dialogue. In addition, each student (except the student presenting) will turn in an outlined summary of the article, highlighting the public health significance, and why the article was chosen. Supplemental assigned readings will be used to expand the information in a specific pertinent topic.

## Course Syllabus:

Week	Date	Topic	Lecturer	Contact Information
I	April 4	Introduction	Dr. Hoet	<a href="mailto:Hoet.1@osu.edu">Hoet.1@osu.edu</a>
		South America / Sources of Information		
II	April 11	Central America + Caribbean Islands		
III	April 18	Sub-Sahara and South Africa		
IV	April 25	North Africa and Middle East		
V	April 29	Eastern Europe and Russia		
VI	May 2	Western Europe		
VII	May 9	Asia I (China, Mongolia, Japan, Korea)		
VIII	May 16	Asia II (Vietnam, Thailand, Laos, Malasia, Cambodia, Indonesia, Philippines, Burma)		
IX	May 23	Asian Subcontinent and SW Asia (India, Pakistan, Afghanistan, Iran)		
X	May 30	Australia, New Zealand, Pacific Islands		
Final Week	June 6	Extra Section		

## **Grading and Exams:**

Each student will be evaluated on:

- 1) ORAL PRESENTATION:
  - a. Students should demonstrate their knowledge over their region and the selected zoonotic diseases through their oral presentation, presentation content, supporting material, and questions answered.
- 2) PEER REVIEWED ARTICLE & SUMMARY:
  - a. The quality of the peer reviewed article selected & presented
  - b. The quality of the summary of the article turned in
- 3) QUALITY OF QUESTIONS ASKED

The weight of each evaluation will be balanced depending of the week of the oral presentation, according to the following table:

Week	Oral Presentation (%)	Class Participation (%)
II	50	50
III	50	50
IV	55	45
V	55	45
VI	60	40
VII	60	40
VIII	65	35
IX	65	35
X	70	30

The following grading scheme will be used:

%	Letter Grade
90 – 100	A
80 – 89	B
70 – 79	C
65 – 69	D
0 – 64	E

## **Meeting Place and Time:**

A100H Sisson Hall  
Department of Veterinary Medicine  
Meeting Time: Monday 8:00 to 9:30 am.

## **Absences and Make-Up Policy**

No more than two (2) excusable absences will be permitted. At the third absence you will be dismissed from the class. If there is an excusable conflict with an oral presentation date, let the instructor know ASAP.

### **Recommended Readings and Useful Websites:**

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

### **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.