VAPH 633: Animal Diseases in Comparative Medicine
(3-0) Credit 3.

Course Description: Selected infectious disease transmitted between lower animals and humans, including epidemiology. Roles and responsibilities of today's scientist as a member of the public health team, community health team and the community. Current and potential zoonotic diseases are discussed, with emphasis on the host, agent, and environmental factors that are determinants of disease occurrence, including the basis for successful intervention and preventive medicine programs.

When and where taught: Spring of 2006. Tuesday/Thursday@ 2:30-3:45 in Room 330 of the Veterinary Administration Building.

Instructors: Leon H. Russell, D.V.M., MPH, Ph.D., Professor of Epidemiology, of Veterinary Integrative Biosciences, of Medical Microbiology & Immunology, and of Food Science & Technology. Mike Gibson, BS, Ph.D. Lecturer of Epidemiology, of Veterinary Integrative Biosciences

Text: None required.

Suggested References: (Others will be given during the course):


4) Webb site: <www.uchsc.edu/sm/animal/zoo.html>

5) http://www.cdc.gov/ncidod/EID/index.htm
   (Emerging Infectious Diseases. December 2005 issue is on zoonoses)


7) ProMed:http://www.promedmail.org

8) CDC, Diseases:http://www.cdc.gov/node.do/id/0900f3ec8000e035
1. (1/17) **Zoonoses: Responsibilities, Intervention, Prevention and Control of Disease**
   The types of zoonotic diseases, epidemiology, and general methods of control.

2. (1/23-27) **Rabies**
   A model for the study of zoonotic diseases.
   Includes the history and epidemiology, and methods of control.

3. (1/30-2/3) **Bite transmitted disease agents and diseases.**
   *Pasteurella multocida, Capnocytophaga canimorsus, Bartonella henselae, Francisella tularensis, and others.* The inter-relationship of reservoir, transmission, and exposure potentials in disease occurrence and the spectrum of diseases.

4. (2/6-2/10) **Zoonoses of Livestock**
   Anthrax, Tuberculosis and leptospirosis and brucellosis. The inter-relationships of agent, host, and environmental factors in the causation of disease.

5. (2/13-17) **Zoonoses of Birds and Poultry**
   Avian Chlamydiosis, histoplasmosis campylobacteriosis, and salmonellosis. Includes problems associated with exotic (pet) birds and integrated commercial poultry production.

6. (2/20-25) **Vector-borne Diseases**
   Lyme borreliosis, Rocky Mountain spotted fever, ehrlichiosis and the encephalitides. Effectiveness of public health programs.

7. (2/27-3/3) **Vector-borne Diseases**
   Bubonic plague, associated with emerging new, as well as old, zoonotic diseases.

8. (3/6-10) **Vector-borne Diseases**
   Leishmaniasis, yellow fever, dengue fever and other "exotic" zoonotic diseases.
9.(3/20-3/24) **Mycotic Diseases**

10.(3/27-3/31) **Protozoan Zoonoses**
Toxoplasmosis, cryptosporidiosis, and giardiasis. Food and water transmitted agents.

11.(4/3-4/7) **Helminthic Zoonoses**
Toxocarial larva migrans, Baylisascaris larva migrans and hydatid disease. Aberrant hosts.

12/13. (4/10-4/14) **Emerging ZOONOTIC Diseases**
Hantavirus Pulmonary Syndrome, Hemorrhagic Fevers, Ebola Fever, Monkey Pox, Leprosy, and others.

14/15. (4/17-4/21) **Miscellaneous zoonotic diseases**

15/16. (4/24-4/28) **Miscellaneous zoonotic diseases**