

# **ANFS 332-010 and ANFS 332-080 Introduction to Animal Diseases**

## **Fall 2015 Syllabus**

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**Instructor:** Dr. Mark Parcels  
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### **Background**

ANFS 332 is a 3 credit lecture course designed to provide a broad overview of animal infectious diseases of agricultural and companion animals. The course provides a fundamental understanding of basic principles of disease and health as they relate specifically to production and companion animals. The main focus of this course will be on understanding the basics of pathogen-host interactions.

### **Learning Outcomes/Objectives**

This course is designed to address University General Education Goals # 1 – 5, and Departmental Learning Goals 1 – 4.

#### **University General Education Goals**

1. Read critically, analyze arguments and information, and engage in constructive ideation.
2. Communicate effectively in writing, orally, and through creative expression.
3. Work collaboratively and independently within and across a variety of cultural contexts and a spectrum of differences.
4. Critically evaluate the ethical implications of what they say and do.
5. Reason quantitatively, computationally, and scientifically.

#### **Departmental Learning Goals**

1. Students will demonstrate oral communication skills important for communicating scientific ideas.
2. Students will demonstrate written communication skills important for communicating scientific ideas.
3. Students will use critical thinking and reasoning, skeptical inquiry and scientific approach to solve problems.
4. Students will demonstrate knowledge of the major core concepts in the animal and food sciences.

These Learning Goals will be addressed in the context of the Overall Course Goals, below:

### Overall Course Goals

- a) Learn basic principles of microbiology, virology, parasitology, immunology, and pathology
- b) Become knowledgeable about basic diagnostic techniques
- c) Study specific examples of infectious diseases (bacterial, viral, protozoan, vector-borne) of agricultural and companion animal species
- d) Contribute to Lectures through group presentation activities
- e) Develop an appreciation of the zoonotic potential of animal diseases
- f) Research and construct a lecture on animal diseases not covered by the instructor

### Evaluation of Learning Outcomes

In order to assess the general education, departmental and overall course learning goals, student learning will be assessed by:

- (A) Five multiple choice, matching and short answer exams
- (B) A peer-reviewed group presentation on a disease topic area
- (C) Individual powerpoint presentation on a specific aspect of a disease within their group presentation topic area
- (D) Five short quizzes on specific key concepts
- (E) Participation in process-oriented guided inquiry learning (POGIL) exercises
- (F) Specific course and topic evaluations (Sakai-based)

### Meeting Location and Times

Lecture:     M W F 9:05 – 9:55 (Sections 010 and 080) in 319 Willard Hall  
               W       3:35 – 4:35 (Section 080) in 310 Gore Hall

### Attendance

Accurate notes and the ability to perform well in examinations can **ONLY** be obtained by attending lecture. **Attendance may be taken during lecture.** Each student will be allowed two unexcused absences from lecture without penalty. After two unexcused absences, students will be penalized 1/3 of a letter grade (i.e. from a B+ to a B) per unexcused absence.

Excused absences include religious holidays, medical (with an official medical excuse), athletics, marching band, or a death in the family. See the Official Student Handbook for the official criteria. It is your responsibility to notify me and to document an excused absence. It is also your responsibility to sign the attendance sheet when it is available in class.

## Academic Integrity

All students will adhere to the University's Policy of Academic Honesty by doing their own work on every quiz, test, and assignment. ***Academic dishonesty in any form will not be tolerated in this course and will be processed fully through the University Judicial System. The Academic Honesty Policy can be found in the Student Guide to University Policies at <http://www.udel.edu/stuguide/14-15/code.html>.***

## Students with Disabilities

Any student who requires accommodation/s based upon the impact of a disability should contact me. You will be referred to the Americans with Disabilities Act (ADA) Office for students with physical or emotional disabilities and/or the Academic Enrichment Center (AEC) for students with learning disabilities or ADHD.

## Text and Course Material

There are no required texts for this course. All lecture materials (presentations, handouts, primary literature, etc., will be posted on the course Sakai site ([www.udel.edu/sakai](http://www.udel.edu/sakai)).

As a reference, The Merck Veterinary Manual can be accessed on-line at <http://www.merckmanuals.com/vet/index.html>. For reference to specific topics in Animal Diseases, students are encouraged to explore PubMed at the National Center for Biotechnology Information (NCBI) at: <http://www.ncbi.nlm.nih.gov/pubmed/>

Lectures will also be recorded and available for review on UDCapture at <http://udcapture.udel.edu/2015f/anfs332-010/>

## Lecture Outline

- I. Principles of Disease
- II. Immunology
- III. The Study of Infectious Diseases
- IV. Bacterial Diseases
- V. Viral Diseases
- VI. Parasitic and Vector-borne Diseases
- VII. Infectious Malignancies

## Grading

The +/- grading system will be employed.

Exams: 5 @ 100 points each	500
Individual Disease Project	100
Group Exercise assignment	100
Quizzes/Homework	100

Timed quizzes will be taken on Sakai

**Total Points** **700**

## Exam Policy

It is course policy **NOT** to schedule make-up exams. Only under extremely extenuating circumstances will make-up exams be administered. You must schedule a make-up exam **BEFORE** the scheduled exam date.

## Tutor and Support Services

Do not wait until after the first exam to worry about learning the course material! The Office of Academic Enrichment offers tutorial help and study groups. Go to the Office of Academic Enrichment (150 S. College Ave.) and sign up for free ANFS 332 group tutoring. The OAE will not form a tutor group unless enough students sign up! **I will hold review sessions in 049 Townsend prior to exam.**