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Department of Veterinary Medicine

**DVM 714** 

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11. Suppose Services:
Describe the student support services such as tutoring (local and/or regional) appropriate for the course.
12. Disabilities Services: Note that the phone# and location have been updated. http://www.uaf.edu/disability/ the Office of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF students have equal access to the campus and course materials.
State that you will work with the Office of Disabilities Services (208 Whitneer Bldg, 474-5655) to provide reasonable
accommodation to students with disabilities.
5/21/2013

#### DVM 714 PREVENTATIVE VETERINARY MEDICINE

#### SYLLABUS - FALL 2016

# Department of Veterinary Medicine, University of Alaska Fairbanks

1. Course Information:

Title: Preventative Veterinary Medicine

Number: DVM 714

Credit:

Prerequisites: Successful completion of first year veterinary courses

Location: TBI

Meeting time: Monday 10am-noon, Wednesday 10am-noon

2. Instructor Contact Information:

Name: Dr. Lisa Lunn

Office Location: 182A Arctic Health Research Building

Office Hours: By appointment
Office Phone: 907-474-7926
Email: Ilunn2@alaska.edu

Email is the best way to reach the instructor. You should receive a response to your email within 24 hours of when it is received. If you do not receive a reply within this time frame, assume the email was not

received and please resend your message.

### Course Reading/Materials:

There are no required textbooks for this course. Course material will consist of written notes and PowerPoints. All course materials will be posted on Blackboard.

## 4. Course Description:

The course will provide a basic understanding of the principles of host/disease/agent interaction and essential steps in disease outbreak investigation. The beginning of the course will focus on calculation and interpretation of different measures of association among population-based data and will introduce concepts that are fundamental to accurate interpretation of diagnostic test results. Clinical and herd-based scenarios will be used for discussion of epidemiologic principles and features of zoonotic diseases that impact patient safety. We will cover issues that impact patient safety in clinical practice, infectious disease control programs, and biosecurity. The course will end with discussions of specific biosecurity and infectious disease control issues of relevance to global public health and to the health and safety of the nation's livestock.

#### Course Goals:

The goals for this course are to provide professional veterinary students with the foundations about basic disease mechanisms and principles of biosecurity, enabling them to apply this knowledge as clinical practitioners of the veterinary profession.

# 6. Student Learning Outcomes:

Upon successful completion of the course the student should have an understanding of:

• The fundamental concepts of the host-disease agent interaction, as well as the essential steps in disease outbreak investigation.

- Definition of epidemiology, the "5W's of investigation", epidemiologic triad, and the different types of hosts, pathogenicity, infectivity, and virulence
- Distinguishing between contagious and non-contagious agents, direct and indirect transmission
- Understand "R value" and how to calculate attack and case fatality risk
- Describe and provide analysis in disease outbreak investigation, construct an epidemic curve from outbreak data
- Understand types and distribution of data; differences between interval, ordinal, nominal data and normal, skewed distributions
- Calculation and interpretation of different measures of association among population-based data, as well as concepts that are fundamental to accurate interpretation of diagnostic test results.
  - Understand association and causation; definition of risk, risk factor, component, sufficient, necessary causes
  - Describe Koch's postulates; calculate and interpret relative risks, odds ratios, attributable risks, and attributable fractions
  - Evaluation risk factors for disease by calculating and interpreting measures of association
  - Calculate and interpret standard parameters of diagnostic tests (sensitivity, specificity)
  - Differentiate between application of clinical tests for diagnostics and for screening
  - o List the elements that determine sample size
  - o Describe sources of bias in a study
- Specific scenarios wherein epidemiologic principles are applied to develop effective preventive strategies for common infectious and non-infectious diseases and how these applications apply to veterinary practice.
  - Differentiate between medical errors originating from errors in logic (reasoning) from those originating from systematic (organizational / operational) flaws; be able to describe methods to mitigate each type of error
  - Be able to diagram a clinical event (e.g. patient admission for an elective procedure) into its component steps and identify potential hazards associated with each step
  - Be able to construct a flow chart, communication script, redundancy protocol, or checklist for prevention of error in a common clinical event
  - o List core and non-core vaccines for dogs and cats identifying benefits and risks
  - List and describe the factors that influence the severity of the nematode burden in a livestock population
  - Describe the major clinical signs (humans and animals), routes of transmission, high-risk groups, reservoirs, endemic areas (US), and preventive strategies for tularemia, Q fever, and anthrax
  - List the consequences of nosocomial infections for veterinary practices and/or hospitals; identify common disease agents associated with nosocomial infections in veterinary teaching hospitals
- Issues that impact patient safety in clinical practice, infectious disease control
  programs, and biosecurity.
  - Discuss concerns for zoonotic infection with MRSA and MRSP, and control measures for spread in animal populations
  - Summarize the basis for concern about antimicrobial resistance in human and veterinary medicine; list and describe the Principles of Judicious Use

- for Veterinarians
- Explain how they may help practicing veterinarians prevent further spread of resistant bacteria
- Describe epidemiological features of foodborne diseases

### Instructional Methods:

The course is designed to utilize didactic lectures, small group discussions, and case-based teaching. Students are expected to read assigned material before the start of class so that classroom time can be spent on active discussion and problem solving of assigned material. On-line quizzes and homework assignments will be utilized throughout the course to assess student learning. Blackboard (classes.uaf.edu) will be used for publishing of class notes, PowerPoints, supplemental reading material, as well as audio/visual teaching aids.

#### 8. Course Calendar:

For details, refer to the section "Tentative Lecture Schedule" at the end of this syllabus.

### 9. Course Policies:

- Attendance: Students are expected to attend all classes and actively participate in discussions. Requests for excused absences must first be discussed with the instructor for the section to be missed. It is the responsibility of the student to provide an excused absence form to the instructor for signature. In the event of emergencies resulting in absence, it is the student's responsibility to contact the Department office and register the cause as soon as possible.
- Classroom Behavior: Any type of behavior in the classroom that is disruptive, distractin
  g, or disrespectful to the instructor or to students will not be tolerated and will result in
  dismissal from the classroom. This includes, but is not limited to, disrespectful
  comments, use of tobacco products, consumption of food, and use of cell phones or
  wireless devices for purposes other than note taking. Browsing of the internet (unless
  part of a required class activity) and text messaging is prohibited during class time.
- Plagiarism: Plagiarism is the overt or covert use of other people's work or ideas without
  acknowledgment of the source. This includes using ideas or data from a classmate or
  colleague without permission and acknowledgement, including sentences from journal
  articles in your writing without citing the author, or copying parts of a website into your
  essay. Plagiarism and cheating are serious offenses that violate the student code of
  conduct which may result in a grade of "F" in the course and/or referral to the university
  disciplinary committee.

## 10. Evaluation:

Students will have the opportunity to earn 200 points in the course.

- Section quizzes: 100 points
  - There will be four (4) post-section quizzes that reflect assigned reading material. Each quiz is worth twenty-five (25) points.
- Homework assignments: 100 points
  - There will be four (4) post-section homework assignments. The homework will involve application of section material as it relates to a case-based scenario.
     Each homework assignment is worth twenty-five (25) points.
- Final examination: 100 points

- o The final examination will be cumulative in nature. The format will include short answer/essay assessments as well as multiple choice questions.
- Grading Scale: Grades will be calculated as follows

	des will be ca -point scale	alculated on
A+	96-100	%
Α	92-95.9	%
A-	88-91.9	%
B+	84-87.9	%
В	80-83.9	%
B-	76-79.9	%
C+	72-75.9	%
C	68-71.9	%
C-	64-67.9	%
D	60-63.9	%
F	<60	%

## 11. Support Services:

If you require more assistance than can be provided in class, and office hours, you may want to contact Student Support Services (<a href="http://www.uaf.edu/sssp/">http://www.uaf.edu/sssp/</a>) or the Department of Veterinary Medicine for assistance.

## 12. Disability Services:

All students, including those with disabilities, are welcome in this course. Equal access to the course will be provided to all students. If you have a disability (including learning disabilities) it is your responsibility to inform the instructor during the first week of class so that you're specific need may be accommodated. If you have not already done so, you will also need to contact UAF's Office of Disability Services by email at <a href="mailto:uaf-disabilityservices@alaska.edu">uaf-disabilityservices@alaska.edu</a>, by phone at (907)474-5655, or by TTY at (907)474-1827.

Tentative Lecture Schedule:

Week	Lecture Topics
1	Course introduction and outline: What is epidemiology and preventative medicine Disease patterns in populations – general, companion animal, livestock and wildlife
2	Disease outbreak investigation - general companion animal livestock and wildlife
3	Types and distribution of data Statistics for the practitioner
4	<b>EXAM 1</b> Association and Causation, Measures of Association, Interpreting diagnostic tests
5	Interpreting diagnostic tests 3 Sample size and power Study Design 1
6	EXAM 2 Prevention of logical and systematic errors in clinical practice,

	Sources of clinical errors: case scenarios, Understanding and implementing infection control: rabies
7	Applied population medicine: small animal vaccination strategies, pet overpopulation, ruminant example
8	Tularemia, Anthrax and Q Fever, Epidemiology of wildlife diseases: a pathologist's perspective, Components of biosecurity program
9	Companion animal zoonoses, Farm animal zoonoses, Applied population medicine: exotic mammals, avian / reptile example
10	Zoonoses of exotic animals: infection control at zoos, Applied population medicine: calves disease investigation examples
11	Applied population medicine: tuberculosis in livestock, humans and wildlife, Applied wildlife research, Infection control problems: case examples
12	<b>EXAM 3,</b> Understanding and implementing infection control: MRSA, Veterinary practice and human health: antimicrobial resistance
13	Foodborne diseases EXAM 4
14	Conducting Field Investigation: dairy and beef example
	Final Examination as scheduled by University