

School of Public Health

Syllabus and Course Information



UNIVERSITY OF MINNESOTA
Driven to DiscoverSM

PubH 7235 Section 101 Class #85729

Surveillance of Zoonotic Pathogens in Animals

May Term 2015

Credits:	1 credit
Meeting Days/Time:	June 1 9:00am-12:00pm June 2, 3, 5 8:00am-12:00pm
Meeting Place:	Blegen Hall - Room 240
Instructor:	Scott Wells, DVM, PhD Professor, Veterinary Population Medicine Division Head, Veterinary Public Health Director of Academic Programs, Center for Animal Health and Food Safety College of Veterinary Medicine, University of Minnesota Joni Scheftel, DVM, MPH, DACVPM, State Public Health Veterinarian and Supervisor, Zoonotic Diseases Unit, Minnesota Department of Health, St. Paul, MN; Adjunct faculty, College of Veterinary Medicine, University of Minnesota
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Office Hours:	By appointment

I. Course Description

Using a case-study approach focused on Q fever with a field trip to a sheep farm, this course will explore surveillance issues related to zoonotic pathogens in animals. Students will learn concepts related to animal disease traceability, monitoring and surveillance of diseases, and methods to prevent and control zoonotic diseases from a one health perspective. The case study approach will provide real-world examples for evaluating public health surveillance systems and will provide opportunities to apply surveillance principles learned. A final group assignment to addressing specific issues related to surveillance and control for a zoonotic pathogen will provide the opportunity to assess learning gained.

Competencies

The core competencies in Public Health Preparedness and Response identified in the CDC planning model that apply to this course include:

Domain 1: Model Leadership

1.4 Maintain situational awareness

Domain 2: Communicate and Manage Information

2.4 Collect data according to protocol

II. Course Prerequisites

None

III. Course Goals and Objectives

At the end of this course participants will be able to:

- 1) Summarize the complexities of infectious disease epidemiology, prevention and control when the disease affects both humans and animals.
- 2) Describe the basics of infectious disease investigation.
- 3) Explain the World Organization for Animal Health (OIE) Advanced Competency in the area of Management of Contagious Disease, which are the minimum knowledge, skills, attitudes and aptitudes required for a veterinarian to work within the Veterinary Authority. This includes having a general awareness of and appreciation for:
 - Animal disease traceability
 - Monitoring and surveillance of diseases
 - Methods to prevent and control diseases, including control of movements of animals, animal products, equipment, and people; quarantine of infected and at-risk premises/areas; humane removal of infected or exposed animals; disposal of infected carcasses in an appropriate manner; disinfection or destruction of contaminated materials; and zoning and compartmentalization.

IV. Methods of Instruction and Work Expectations

- This course combines lectures, case study, group activities, and a field trip experience.
- The course learning objectives will be met using a case study approach of Q fever, with a planned field trip to a sheep farm.
- Students will be expected to review assigned course readings prior to class, participate in class discussion, write a daily journal entry, and complete the course final group oral presentation.
- Student grades will be assigned as follows:
 1. Class participation (25% of grade). Students will be able to obtain credit for active classroom and field trip participation by asking questions, and participating in discussions and hands-on activities.
 2. Completion of daily journal entries (25% of grade). Each student will write down three key ideas from class and pose one question as a daily journal, to be completed in last 15 minutes of class or after class each day on course moodle site.
 3. Final group oral presentation (50% of grade). Students will obtain credit for completing the group oral presentation on their assigned topic, to be completed on the final day of class, to assess understanding of the course subject material.
- There will be pre-course readings (see below).
- There will be no post-course assignments.

V. Course Text and Readings

The required and optional readings are available through posted electronic links or the UMN Library, which can be accessed through the course Moodle site.

Access Course Moodle Site

- go to www.umn.edu click on the “myU” button
- login with your University ID and password
- scroll to your course and click on the Moodle site link

VI. Course Outline/Weekly Schedule/

Pre-course readings	German et al. 2001. Updated Guidelines for Evaluating Public Health Surveillance Systems, Recommendations from the Guidelines Working Group. MMWR, July 27, 2001 / 50(RR13);1-35. Available at http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5013a1.htm Q fever. http://www.cdc.gov/qfever/ Prevention and control of Coxiella burnetii infection among humans and animals: Guidance for a coordinated public health and animal health response, 2013. http://nasphv.org/documentsCompendia.html
Day 1	Course introduction and key surveillance concepts. Initial overview of MN Q fever incidents in goat and sheep flocks. Review of key surveillance and sampling concepts.
Day 2	Field trip to sheep farm and discussion with government agencies.
Day 3	Review of key animal disease management concepts.
Day 4	Group oral presentations. Course wrap-up.

VII. Evaluation and Grading

Class participation	25%
Daily assignments & journal entry	25%
Final group oral presentation	50%

This course is offered A/F or S/N

- **A/F letter grade will be determined by total effort as follows:**

A 4.000	Represents achievement that is outstanding relative to the level necessary to meet course requirements. 94-100 points/percent
A- 3.667	90-93 points/percent
B+ 3.333	87-89 points/percent
B 3.000	Represents achievement that is significantly above the level necessary to meet course requirements. 83-86 points/percent
B- 2.667	80-82 points/percent
C+ 2.333	77-79 points/percent
C 2.000	Represents achievement that meets the course requirements in every respect. 73-76 points/percent
C- 1.667	70-72 points/percent

D+ 1.333	67-69 points/percent
D 1.000	Represents achievement that is worthy of credit even though it fails to meet fully the course requirements. 63-68 points/percent
F = below 60%	Represents failure (or no credit) and signifies that the work was either (1) completed but at a level of achievement that is not worthy of credit or (2) was not completed and there was no agreement between the instructor and the student that the student would be awarded an I.

- **S Represents achievement that is satisfactory, which is equivalent to a C- or better.**

For additional information, please refer to:

<http://policy.umn.edu/Policies/Education/Education/GRADINGTRANSCRIPTS.html>.

Course Evaluation

The SPH will collect student course evaluations electronically using a software system called CourseEval: www.sph.umn.edu/courseeval. The system will send email notifications to students when they can access and complete their course evaluations. Students who complete their course evaluations promptly will be able to access their final grades just as soon as the faculty member renders the grade in SPHGrades: www.sph.umn.edu/grades. All students will have access to their final grades through OneStop two weeks after the last day of the semester regardless of whether they completed their course evaluation or not. Student feedback on course content and faculty teaching skills are an important means for improving our work. Please take the time to complete a course evaluation for each of the courses for which you are registered.

Incomplete Contracts

A grade of incomplete "I" shall be assigned at the discretion of the instructor when, due to extraordinary circumstances (e.g., documented illness or hospitalization, death in family, etc.), the student was prevented from completing the work of the course on time. The assignment of an "I" requires that a contract be initiated and completed by the student before the last official day of class, and signed by both the student and instructor. If an incomplete is deemed appropriate by the instructor, the student in consultation with the instructor, will specify the time and manner in which the student will complete course requirements. Extension for completion of the work will not exceed one year (or earlier if designated by the student's college). For more information and to initiate an incomplete contract, students should go to SPHGrades at: www.sph.umn.edu/grades.

University of Minnesota Uniform Grading and Transcript Policy - A link to the policy can be found at onestop.umn.edu.

VIII. Other Course Information and Policies

Grade Option Change (if applicable)

For full-semester courses, students may change their grade option, if applicable, through the second week of the semester. Grade option change deadlines for other terms (i.e. summer and half-semester courses) can be found at onestop.umn.edu. **The grading option for Public Health Institute courses may not be changed after the second day of class for 4-day courses. Grading options for 2 day courses may not be changed after the first day class.**

Course Withdrawal

Students should refer to the Refund and Drop/Add Deadlines for the particular term at onestop.umn.edu for information and deadlines for withdrawing from a course. As a courtesy, students should notify their instructor and, if applicable, advisor of their intent to withdraw.

Students wishing to withdraw from a course after the noted final deadline for a particular term must contact the School of Public Health Office of Admissions and Student Resources at sph-ssc@umn.edu for further information.

WITHDRAWAL POLICY FOR PUBLIC HEALTH INSTITUTE COURSES

School of Public Health students may withdraw from a 4-day course **through the second day of class** without permission and no "W" will appear on the transcript. Students enrolled in 2-day courses may withdraw only through the first day of class. **After these withdrawal deadlines pass** students are required to do the following.

- The student must contact and notify their advisor and course instructor informing them of the decision to withdraw from the course.
- The student must send an e-mail to the SPH Student Services Center (SSC) at sph-ssc@umn.edu. The email must provide the student name, ID#, course number, section number, semester, and year with instructions to withdraw the student from the course, and acknowledgement that the instructor and advisor have been contacted.
- The advisor and instructor must email the SSC acknowledging the student is canceling the course. All parties must be notified of the student's intent.
- The SSC will complete the process by withdrawing the student from the course after receiving all emails (student, advisor, and instructor). A "W" will be placed and remain on the student transcript for the course.

Student Conduct Code

The University seeks an environment that promotes academic achievement and integrity, that is protective of free inquiry, and that serves the educational mission of the University. Similarly, the University seeks a community that is free from violence, threats, and intimidation; that is respectful of the rights, opportunities, and welfare of students, faculty, staff, and guests of the University; and that does not threaten the physical or mental health or safety of members of the University community.

As a student at the University you are expected adhere to Board of Regents Policy: *Student Conduct Code*. To review the Student Conduct Code, please see:

http://regents.umn.edu/sites/default/files/policies/Student_Conduct_Code.pdf.

Note that the conduct code specifically addresses disruptive classroom conduct, which means "engaging in behavior that substantially or repeatedly interrupts either the instructor's ability to teach or student learning. The classroom extends to any setting where a student is engaged in work toward academic credit or satisfaction of program-based requirements or related activities."

Use of Personal Electronic Devices in the Classroom

Using personal electronic devices in the classroom setting can hinder instruction and learning, not only for the student using the device but also for other students in the class. To this end, the University establishes the right of each faculty member to determine if and how personal electronic devices are allowed to be used in the classroom. For complete information, please reference:

<http://policy.umn.edu/Policies/Education/Education/STUDENTRESP.html>.

Scholastic Dishonesty

You are expected to do your own academic work and cite sources as necessary. Failing to do so is scholastic dishonesty. Scholastic dishonesty means plagiarizing; cheating on assignments or examinations; engaging in unauthorized collaboration on academic work; taking, acquiring, or using test materials without faculty permission; submitting false or incomplete records of academic achievement; acting alone or in cooperation with another to falsify records or to obtain dishonestly grades, honors, awards, or professional endorsement; altering, forging, or misusing a University academic record; or fabricating or falsifying data, research procedures, or data analysis. (Student Conduct Code:

http://regents.umn.edu/sites/default/files/policies/Student_Conduct_Code.pdf) If it is determined that a student has cheated, he or she may be given an "F" or an "N" for the course, and may face additional sanctions from the University. For additional information, please see:

<http://policy.umn.edu/Policies/Education/Education/INSTRUCTORRESP.html>.

The Office for Student Conduct and Academic Integrity has compiled a useful list of Frequently Asked Questions pertaining to scholastic dishonesty: <http://www1.umn.edu/oscai/integrity/student/index.html>. If you have additional questions, please clarify with your instructor for the course. Your instructor can respond to

your specific questions regarding what would constitute scholastic dishonesty in the context of a particular class-e.g., whether collaboration on assignments is permitted, requirements and methods for citing sources, if electronic aids are permitted or prohibited during an exam.

Makeup Work for Legitimate Absences

Students will not be penalized for absence during the semester due to unavoidable or legitimate circumstances. Such circumstances include verified illness, participation in intercollegiate athletic events, subpoenas, jury duty, military service, bereavement, and religious observances. Such circumstances do not include voting in local, state, or national elections. For complete information, please see:

<http://policy.umn.edu/Policies/Education/Education/MAKEUPWORK.html>.

Appropriate Student Use of Class Notes and Course Materials

Taking notes is a means of recording information but more importantly of personally absorbing and integrating the educational experience. However, broadly disseminating class notes beyond the classroom community or accepting compensation for taking and distributing classroom notes undermines instructor interests in their intellectual work product while not substantially furthering instructor and student interests in effective learning. Such actions violate shared norms and standards of the academic community. For additional information, please see: <http://policy.umn.edu/Policies/Education/Education/STUDENTRESP.html>.

Sexual Harassment

"Sexual harassment" means unwelcome sexual advances, requests for sexual favors, and/or other verbal or physical conduct of a sexual nature. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment in any University activity or program. Such behavior is not acceptable in the University setting. For additional information, please consult Board of Regents Policy:

<http://regents.umn.edu/sites/default/files/policies/SexHarassment.pdf>

Equity, Diversity, Equal Opportunity, and Affirmative Action

The University will provide equal access to and opportunity in its programs and facilities, without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. For more information, please consult Board of Regents Policy: http://regents.umn.edu/sites/default/files/policies/Equity_Diversity_EO_AA.pdf.

Disability Accommodations

The University of Minnesota is committed to providing equitable access to learning opportunities for all students. Disability Services (DS) is the campus office that collaborates with students who have disabilities to provide and/or arrange reasonable accommodations.

If you have, or think you may have, a disability (e.g., mental health, attentional, learning, chronic health, sensory, or physical), please contact DS at 612-626-1333 to arrange a confidential discussion regarding equitable access and reasonable accommodations.

If you are registered with DS and have a current letter requesting reasonable accommodations, please contact your instructor as early in the semester as possible to discuss how the accommodations will be applied in the course.

For more information, please see the DS website, <https://diversity.umn.edu/disability/>.

Mental Health and Stress Management

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance and may reduce your ability to participate in daily activities. University of Minnesota services are available to assist you. You can learn more about the broad range of confidential mental health services available on campus via the Student Mental Health Website: <http://www.mentalhealth.umn.edu>.

The Office of Student Affairs at the University of Minnesota

The Office for Student Affairs provides services, programs, and facilities that advance student success, inspire students to make life-long positive contributions to society, promote an inclusive environment, and enrich the University of Minnesota community.

Units within the Office for Student Affairs include, the Aurora Center for Advocacy & Education, Boynton Health Service, Central Career Initiatives (CCE, CDes, CFANS), Leadership Education and Development – Undergraduate Programs (LEAD-UP), the Office for Fraternity and Sorority Life, the Office for Student Conduct and Academic Integrity, the Office for Student Engagement, the Parent Program, Recreational Sports, Student and Community Relations, the Student Conflict Resolution Center, the Student Parent HELP Center, Student Unions & Activities, University Counseling & Consulting Services, and University Student Legal Service.

For more information, please see the Office of Student Affairs at <http://www.osa.umn.edu/index.html>.

Academic Freedom and Responsibility: for courses that do not involve students in research

Academic freedom is a cornerstone of the University. Within the scope and content of the course as defined by the instructor, it includes the freedom to discuss relevant matters in the classroom. Along with this freedom comes responsibility. Students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth. Students are free to take reasoned exception to the views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled.*

Reports of concerns about academic freedom are taken seriously, and there are individuals and offices available for help. Contact the instructor, the Department Chair, your adviser, the associate dean of the college, or the Vice Provost for Faculty and Academic Affairs in the Office of the Provost.

OR:

Academic Freedom and Responsibility, for courses that involve students in research

Academic freedom is a cornerstone of the University. Within the scope and content of the course as defined by the instructor, it includes the freedom to discuss relevant matters in the classroom and conduct relevant research. Along with this freedom comes responsibility. Students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth. Students are free to take reasoned exception to the views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled.* When conducting research, pertinent institutional approvals must be obtained and the research must be consistent with University policies.

Reports of concerns about academic freedom are taken seriously, and there are individuals and offices available for help. Contact the instructor, the Department Chair, your adviser, the associate dean of the college, or the Vice Provost for Faculty and Academic Affairs in the Office of the Provost.

* Language adapted from the American Association of University Professors "Joint Statement on Rights and Freedoms of Students".