Course Syllabus

School of Public Health

PubH 6181/VMED 5165

Surveillance for Foodborne Diseases and Food Safety Hazards Fall 2018

| Credits: | 2 | | |
|--|--|--------------------------|--|
| Meeting Days: | Mondays | | |
| Meeting Time: | 3:30 pm-5:30 pm | | |
| Meeting Place: | Moos Health Sci Tower 2-520 | | |
| Instructor: | Craig Hedberg | Instructor: | Scott Wells |
| Office Address: | 1242 Mayo Bldg. | Office Address: | 136 Andrew Boss Laboratory / Meat Science |
| | 420 Delaware Street S.E. | | |
| | Minneapolis, MN 55455 :: (612) 626-4757 | | 1354 ECKIES AVE, |
| Office Phone: | | St. Paul, MN 55108 | |
| Fax: | (612) 626-4837 | Office Phone: | (612) 625-8166 |
| Emoile h | hadha005@umn adu | E-mail: Office Hours: | wells023@umn.edu |
| Contraction Contractico Contra | Available by appointment | | Available by appointment |
| | | | |

I. Course Description

This course focuses on 1) principles and methods for surveillance of food-borne illnesses in humans, 2) surveillance and monitoring of illnesses and pathogens in animals that affect public health, 3) investigation of outbreaks, and 4) application of surveillance, monitoring, and outbreak investigation for the assessment of food safety hazards. Specific emphases will be placed on 1) the integration of epidemiologic and laboratory methods for surveillance, 2) the connections between animal and human health, and 3) the integration of surveillance systems and development of programs to protect the public health and animal health. The link between surveillance and timely decision-making and action is demonstrated.

II. Course Prerequisites

None.

III. Course Goals and Objectives

Upon completion of this course, students will be able to:

- 1. Describe surveillance methodology and implications for sampling, representativeness, and estimation.
- 2. Explain the reasons for integrating epidemiologic and laboratory methods in conducting food-borne illness surveillance and outbreak investigations.
- 3. Describe the relationship between animal and human health and the impact on surveillance systems.
- 4. Discuss the roles and relationships of public health and regulatory agencies at federal, state, and local levels in conducting food-borne disease surveillance.

5. Describe the relationship between surveillance systems and program activities.

IV. Methods of Instruction and Work Expectations

All quizzes and assignments will be accessed through the course web-site on Moodle.

The course is comprised of lectures, exercises, critical reviews of literature, group discussions, and group presentations. There will be three written quizzes and a final examination. The total points available will be 100 points, distributed as follows:

| 5 Assignments/ exercises | 25 points |
|--------------------------|-----------|
| 5 Article critiques | 25 points |
| 3 Quizzes | 15 points |
| Group project | 25 points |
| Final examination | 10 points |

Assignments and exercises are used to explore the structure and performance of public health surveillance for foodborne diseases. Each student will have to obtain copies of the foodborne disease reporting rules for two states, and obtain and analyze a report of a foodborne disease outbreak investigation conducted within those states. In class exercises will explore data collection and analysis.

Article critiques are intended to give students practice in critically reading and analyzing articles published in professional and scientific journals. Although the peer-review system has been established to ensure that only scientifically valid and important results are published, there is considerable variability in the level of review articles actually receive before being published. Learning to read critically is a great skill.

Instructions for article critique: Briefly Summarize the Following Questions

- 1. What is the problem being addressed?
- 2. What methods have the investigators used to address the problem?
 - a. Observational or experimental?
 - b. Population-based or not?
- 3. Do the authors state a specific hypothesis that they are testing?
- 4. How are subjects identified and recruited?
- 5. Are the methods appropriate to address the problem?
- 6. Do conclusions reasonably follow results in relationship to hypothesis?
- 7. Do the authors make specific recommendations regarding prevention of the problem being addressed?

Keep the responses under one total page. If specific questions are not addressed in the article, note in critique.

Quizzes and the final examination are tools that help provide assessment of student learning.

The group project is an exercise in synthesizing information, developing strategies to solve problems related to surveillance, and developing proposals to implement those strategies. It is done in a group because epidemiology is a "team sport", and requires multidisciplinary skills to be effective.

V. Course Text and Readings

The texts for this course are both available on-line:

GUIDELINES FOR FOODBORNE DISEASE OUTBREAK RESPONSE Available at: http://cifor.us/clearinghouse/cifor-guidelines-for-foodborne-disease-outbreak-response

FDA's "Bad Bug Book" Available at:

http://www.fda.gov/downloads/Food/FoodSafety/FoodbornellIness/FoodbornellInessFoodbornePathogensNa turalToxins/BadBugBook/UCM297627.pdf

WHO ESTIMATES OF THE GLOBAL BURDEN OF FOODBORNE DISEASES http://apps.who.int/iris/bitstream/10665/199350/1/9789241565165_eng.pdf?ua=1

Additional course readings will be available online.

VI. Course Outline/Weekly Schedule

Week 1 (9/10/2018) Course Overview, Introduction to Foodborne Diseases

Objectives:

- Understand course expectations
- Identify common foodborne illnesses

Read before class:

CIFOR Guidelines: Chapter 2 http://cifor.us/products/guidelines

Marder EP, Griffin PM, Cieslak PR, et al. Preliminary Incidence and Trends of Infections with Pathogens Transmitted Commonly Through Food — Foodborne Diseases Active Surveillance Network, 10 U.S. Sites, 2006–2017. MMWR Morb Mortal Wkly Rep 2018;67:324–328. DOI: http://dx.doi.org/10.15585/mmwr.mm6711a3

Scallan E, Hoekstra RM, Angulo FJ, Tauxe RV, Widdowson MA, Roy SL, Jones JL, Griffin PM. Foodborne Illness Acquired in the United States—Major Pathogens. Emerg Infect Dis 2011;17:7-15. <u>https://wwwnc.cdc.gov/eid/article/17/1/p1-1101_article</u>

Explore the Government Food Safety Website: <u>http://www.foodsafety.gov</u>

Reporting Rule Assignment (5 points): Due September 16, 2018 at 11:55 p.m.

Obtain a copy of disease reporting rules for the states that you selected in class. Outline and be prepared to discuss the following:

What foodborne diseases are reportable?

Who is required to report?

Where are reports to be submitted?

What is the timeline required for reporting?

What isolates are required to be submitted?

Summarize and submit your summary through the course Moodle site.

Week 2 (9/17/2018) Principles and Applications of Public Health Surveillance

Objectives:

Identify reporting sources for public health surveillance of foodborne diseases
Understand the dynamic nature of public health surveillance

Read before class:

Centers for Disease Control and Prevention. Updated Guidelines for Evaluating Public Health Surveillance Systems. MMWR 2001;50:(RR13):1-35.<u>http://www.cdc.gov/mmwr/PDF/rr/rr5013.pdf</u>

Explore FoodNET Fast:

https://wwwn.cdc.gov/foodnetfast/

Be prepared to discuss in class: What is the impact of CIDT on surveillance for different pathogens?

Complete article critique 1: Due September 23, 2018 at 11:55 p.m.

Whitney BM, Mainero C, Humes E, Hurd S, Niccolai L, Hadler JL. Socioeconomic Status and Foodborne Pathogens in Connecticut, USA, 2000-2011(1). Emerg Infect Dis. 2015 Sep;21(9):1617-24. <u>http://wwwnc.cdc.gov/eid/article/21/9/pdfs/15-0277.pdf</u>

Week 3 (9/24/2018) Foodborne Disease Surveillance and Outbreak Detection

Objectives:

•Compare foodborne disease surveillance systems.

•Describe how pathogen-specific surveillance is conducted by state and local health agencies. •Describe how PulseNet functions.

Read before class:

CIFOR Guidelines: Chapter 4 http://cifor.us/products/guidelines

Greene SK, Huang J, Abrams AM, Gilliss D, Reed M, Platt R, Huang SS, Kulldorff M. Gastrointestinal disease outbreak detection using multiple data streams from electronic medical records. Foodborne Pathog Dis. 2012 May;9(5):431-41. doi: 10.1089/fpd.2011.1036. Epub 2012 Mar 19. <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3377951/pdf/fpd.2011.1036.pdf</u>

Take Quiz 1: Due Sunday, September 30, 2018 at 11:55 p.m

Week 4 (10/1/2018) Outbreak Investigation

Objectives:

•Describe importance of epidemiologic, laboratory, and environmental health interactions in outbreak investigations.

In-class exercise (5 points).

Read before class:

CIFOR Guidelines: Chapter 5 http://cifor.us/products/guidelines

Crowe SJ, Mahon BE, Vieira AR, Gould LH.Vital Signs: Multistate Foodborne Outbreaks - United States, 2010-2014. MMWR Morb Mortal Wkly Rep. 2015 Nov 6;64(43):1221-5. doi: 10.15585/mmwr.mm6443a4. https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6443a4.htm

Complete article critique 2: Due Sunday, October 7, 2018 at 11:55 p.m

Petrignani M, Verhoef L, Vennema H, van Hunen R, Baas D, van Steenbergen JE, Koopmans MP.Underdiagnosis of foodborne hepatitis A, The Netherlands, 2008-2010(1.). Emerg Infect Dis. 2014 Apr;20(4):596-602. doi: 10.3201/eid2004.130753. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3966399/pdf/13-0753.pdf

Outbreak Surveillance Evaluation Assignment (10 points): Due Sunday, November 4, 2018 at 11:55 p.m.

Go to the National Outbreak Reporting System (NORS) Dashboard web site: https://wwwn.cdc.gov/norsdashboard/

Generate a spread sheet of outbreaks involving your state for 2012-2016. Determine the CIFOR Performance Measure Target Range (CIFOR Development of Target Ranges for Selected Performance Measures in the CIFOR Guidelines

http://www.cifor.us/documents/MetricsReport_Abridge_FINAL.pdf) for your state for the following CIFOR performance measures:

Foodborne illness outbreak rate.
 Outbreak etiology reported to NORS
 Outbreak vehicle reported to NORS

What was the most frequently reported etiology? Location of preparation? Vehicle?

Compare multistate outbreaks and single state outbreaks for your state in terms of number of outbreaks, size, and etiology. Which type of outbreaks have the greatest impact on the state?

Summarize and submit your summary through the course Moodle site.

Week 5 (10/8/2018) Surveillance and Monitoring of Foodborne Diseases in Animals

Objectives:

•Describe the relationship between animal and human health and the impact on surveillance systems.

•Describe surveillance methodology and implications for sampling, representativeness, and estimation.

Read before class:

Kilonzo C, Li X, Vivas EJ, Jay-Russell MT, Fernandez KL, Atwill ER. Fecal shedding of zoonotic food-borne pathogens by wild rodents in a major agricultural region of the central California coast. Appl Environ Microbiol. 2013 Oct;79(20):6337-44. doi: 10.1128/AEM.01503-13. Epub 2013 Aug 9. <u>http://aem.asm.org/content/79/20/6337.long</u>

Bahrndorff S, Rangstrup-Christensen L, Nordentoft S, Hald B. Foodborne disease prevention and broiler chickens with reduced Campylobacter infection. Emerg Infect Dis. 2013 Mar;19(3):425-30. http://wwwnc.cdc.gov/eid/article/19/3/11-1593_article

Rosenberg Goldstein RE, Cruz-Cano R, Jiang C, Palmer A, Blythe D, Ryan P, Hogan B, White B, Dunn JR, Libby T, Tobin-D'Angelo M, Huang JY, McGuire S, Scherzinger K, Lee ML, Sapkota AR. Association between community socioeconomic factors, animal feeding operations, and campylobacteriosis incidence rates: Foodborne Diseases Active Surveillance Network (FoodNet), 2004-2010. BMC Infect Dis. 2016 Jul 22;16:354

http://bmcinfectdis.biomedcentral.com/articles/10.1186/s12879-016-1686-9

Week 6 (10/15/2018) Animal Laboratory-based Surveillance and Surveillance of Diseases Under Eradication Programs in Animals

Objectives:

- Describe how laboratory-based surveillance is conducted for diseases of animals.
- Describe how surveillance is used in animal disease eradication programs.

Read before class:

Amezcua R, Pearl DL, Friendship RM. Comparison of disease trends in the Ontario swine population using active practitioner-based surveillance and passive laboratory-based surveillance (2007-2009). Can Vet J. 2013 Aug;54(8):775-83. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3711168/

Ribeiro-Lima J, Enns EA, Thompson B, Craft ME, Wells SJ. From network analysis to risk analysis--An approach to risk-based surveillance for bovine tuberculosis in Minnesota, US. Prev Vet Med. 2015 Mar 1;118(4):328-40. doi: 10.1016/j.prevetmed.2014.12.007. Epub 2014 Dec 19.

Glaser L, Carstensen M, Shaw S, Robbe-Austerman S, Wunschmann A, Grear D, Stuber T, Thomsen B. Descriptive Epidemiology and Whole Genome Sequencing Analysis for an Outbreak of Bovine Tuberculosis in Beef Cattle and White-Tailed Deer in Northwestern Minnesota. PLoS One. 2016 Jan 19;11(1) <u>http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0145735</u>

Week 7 (10/22/2018) Food and Environmental Microbiology

Objectives:

•Describe principle methods, limitations and timelines for detecting important foodborne pathogens.

•Discuss importance of sampling plans for detecting foodborne pathogens in food products.

Read before class:

CIFOR Guidelines: Chapter 5 <u>http://cifor.us/products/guidelines</u>

Crowe SJ, Mahon BE, Vieira AR, Gould LH.Vital Signs: Multistate Foodborne Outbreaks - United States, 2010-2014. MMWR Morb Mortal Wkly Rep. 2015 Nov 6;64(43):1221-5. doi: 10.15585/mmwr.mm6443a4. https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6443a4.htm

Complete article critique 4: Due Sunday, October 28, 2018 at 11:55 p.m

Trevino-Garrison I, DeMent J, Ahmed FS, Haines-Lieber P, Langer T, Ménager H, Neff J, van der Merwe D, Carney E. Human illnesses and animal deaths associated with freshwater harmful algal blooms-Kansas.Toxins (Basel). 2015 Jan 30;7(2):353-66. doi: 10.3390/toxins7020353. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4344628/pdf/toxins-07-00353.pdf

Week 8 (10/29/2018) Slaughter Surveillance in the US and Other Countries.

Objectives:

•Describe how slaughter surveillance adds to other monitoring systems for foodborne pathogens in animals.

•Describe how other countries approach the challenges of foodborne pathogen surveillance in food animals.

Read before class:

Humphrey HM, Orloski KA, Olea-Popelka FJ. Bovine tuberculosis slaughter surveillance in the United States 2001-2010: assessment of its traceback investigation function. BMC Vet Res. 2014 Aug 15;10:182. doi: 10.1186/s12917-014-0182-y. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4145249/

Alban L et al. 2010. Description of extended pre-harvest pig Salmonella surveillance-and-control programme and it estimated effect on food safety related to pork, Zoonoses and Public Health, 57(Suppl 1):6-15. <u>http://onlinelibrary.wiley.com/doi/10.1111/j.1863-2378.2010.01367.x/pdf</u>

Review before class: Progress Report on Salmonella and Campylobacter Testing of Raw Meat and Poultry Products, CY 1998-2014. <u>http://www.fsis.usda.gov/wps/wcm/connect/7b9ba8cd-</u> <u>de00-4d8d-8cf7-7cfbe24236f7/Progress-Report-Salmonella-Campylobacter-</u> <u>CY2014.pdf?MOD=AJPERES</u>

The European Union summary report on trends and sources of zoonoses, zoonotic agents and food-borne outbreaks in 2016. <u>https://www.efsa.europa.eu/en/efsajournal/pub/5077</u> Review and prepare to discuss in class, trends for Salmonella in at least 3 EU countries.

Week 9 (11/5/2018) National Animal Health Monitoring System, National Antimicrobial Resistance Monitoring System

Objectives:

•Describe how NAHMS and NARMS contribute to foodborne disease surveillance. •Describe how NAHMS differs from human disease surveillance.

Read before class:

Karp BE, Tate H, Plumblee JR, Dessai U, Whichard JM, Thacker EL, Hale KR, Wilson W, Friedman CR, Griffin PM, McDermott PF. National Antimicrobial Resistance Monitoring System: Two Decades of Advancing Public Health Through Integrated Surveillance of Antimicrobial Resistance. Foodborne Pathog Dis. 2017 Oct;14(10):545-557. doi: 10.1089/fpd.2017.2283. Epub 2017 Aug 9. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5650714/pdf/fpd.2017.2283.pdf

The 2015 Integrated NARMS Report

https://www.fda.gov/downloads/AnimalVeterinary/SafetyHealth/AntimicrobialResistance/National AntimicrobialResistanceMonitoringSystem/UCM581468.pdf

Review websites:

NAHMS. http://www.aphis.usda.gov/animal_health/nahms/index.shtml

Salmonella Heidelberg Infections in Dairy Calves Can Be Deadly: What Producers Need to Know https://www.aphis.usda.gov/animal_health/nahms/dairy/downloads/S-Heidelberg.pdf

Take Quiz 2: Due Sunday, November 11, 2018 at 11:55 p.m.

Week 10 (11/12/2018) Food Product Traceback

Objectives for lessons:

Describe the complexity of tracing a food item to its source of production.Understand roles and relationships between federal, state, and local agencies.

Read before class:

CIFOR Guidelines: Chapter 7 http://cifor.us/products/guidelines

Smith K, Miller B, Vierk K, Williams I, Hedberg C. Product Tracing in Epidemiologic Investigations of Outbreaks due to Commercially Distributed Food Items – Utility, Application, and Considerations. <u>http://mnfoodsafetycoe.umn.edu/wp-content/uploads/2015/10/Product-Tracing-in-Epidemiologic-Investigations.pdf</u>

Week 11 (11/19/2018) Integrating Information in the Investigation of Clusters and Outbreaks

Objectives for lessons:

•Describe importance of epidemiologic, laboratory, and environmental health interactions in outbreak investigations.

Review before class:

2006-2007 FoodNet Population Survey http://www.cdc.gov/foodnet/surveys/FoodNetExposureAtlas0607_508.pdf

CIFOR. Development of Target Ranges for Selected Performance Measures in the CIFOR *Guidelines* <u>http://www.cifor.us/documents/MetricsReport_Abridge_FINAL.pdf</u>

Complete article critique 5: Due Sunday, November 25, 2018 at 11:55 p.m Nsoesie EO, Gordon SA, Brownstein JS. Online reports of foodborne illness capture foods implicated in official foodborne outbreak reports. Prev Med. 2014 Aug 11. pii: S0091-7435(14)00293-X. <u>http://ac.els-cdn.com/S009174351400293X/1-s2.0-S009174351400293X-main.pdf?_tid=76558c42-2a1e-11e4-a27b-</u> 00000aab0f27&acdnat=1408727285_1ee811fcb41413bc1cbb45ffac868c7d

Week 12 (11/26/2018) Application of Surveillance and Outbreak Investigation for the Assessment of Food Safety Hazards.

Objectives for lessons:

- Describe how results of outbreak investigations can help identify new food safety hazards.
- Describe how surveillance is conducted for food safety-related behaviors.

Read before class:

CIFOR Guidelines: Chapter 6 http://cifor.us/products/guidelines

Bell RL, Zheng J, Burrows E, Allard S, Wang CY, Keys CE, Melka DC, Strain E, Luo Y, Allard MW, Rideout S, Brown EW. Ecological prevalence, genetic diversity, and epidemiological aspects of Salmonella isolated from tomato agricultural regions of the Virginia Eastern Shore. Front Microbiol. 2015 May 7;6:415 http://journal.frontiersin.org/article/10.3389/fmicb.2015.00415/abstract

Kirkland E, Green LR, Stone C, Reimann D, Nicholas D, Mason R, Frick R, Coleman S, Bushnell L, Blade H, Radke V, Selman C; EHS-Net Working Group. Tomato handling practices in restaurants. J Food Prot. 2009 Aug;72(8):1692-8. http://www.cdc.gov/nceh/ehs/Docs/Tomato Handling Practices in Restaurants.pdf

Week 13 (12/3/2018) Attribution of foodborne illness,

Objectives for lessons:

- Describe strategies for developing models to attribute foodborne illnesses to specific food commodities
- Identify knowledge gaps that limit model development

Read before class: Guo C, Hoekstra RM, Schroeder CM, Pires SM, Ong KL, Hartnett E, Naugle A, Harman J, Bennett P, Cieslak P, Scallan E, Rose B, Holt KG, Kissler B, Mbandi E, Roodsari R, Angulo FJ, Cole D. Application of Bayesian techniques to model the burden of human salmonellosis attributable to U.S. food commodities at the point of processing: adaptation of a Danish model. Foodborne Pathog Dis. 2011 Apr;8(4):509-16. Epub 2011 Jan 16. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3123837/pdf/fpd.2010.0714.pdf

Ebel ED, Williams MS, Cole D, Travis CC, Klontz KC, Golden NJ, Hoekstra RM. Comparing Characteristics of Sporadic and Outbreak-Associated Foodborne Illnesses, United States, 2004-2011. Emerg Infect Dis. 2016 Jul;22(7):1193-200. <u>http://wwwnc.cdc.gov/eid/article/22/7/15-</u> 0833_article

Interagency Food Safety Analytics Collaboration. Foodborne illness source attribution estimates for 2013 for Salmonella, Escherichia coli O157, Listeria monocytogenes, and Campylobacter using multi-year outbreak surveillance data, United States. Atlanta, Georgia and Washington, District of Columbia: U.S. Department of Health and Human Services, CDC, FDA, USDA/FSIS. 2017 Dec. <u>https://www.cdc.gov/foodsafety/pdfs/IFSAC-2013FoodborneillnessSourceEstimates-508.pdf</u>

In class exercise 2 (5 points)

Take Quiz 3: Due Sunday, December 9, 2018 at 11:55 p.m.

Week 14 (12/10/2018) Group Project Final Reports

Upload report presentations by Wednesday, December 12, 2018 at 11:55 p.m.

Finals Week (12/17/2018)

Complete final exam by Wednesday, December 19, 2018 at 11:55 p.m.

VII. Evaluation and Grading

The University utilizes plus and minus grading on a 4.000 cumulative grade point scale in accordance with the following:

A 4.000 - Represents achievement that is outstanding relative to the level necessary to meet course requirements

A- 3.667

- B+ 3.333
- B 3.000 Represents achievement that is significantly above the level necessary to meet course requirements
- B- 2.667
- C+ 2.333
- C 2.000 Represents achievement that meets the course requirements in every respect
- C- 1.667
- D+ 1.333
- D 1.000 Represents achievement that is worthy of credit even though it fails to meet fully the course requirements
- S Represents achievement that is satisfactory, which is equivalent to a C- or better.

For additional information, please refer to: <u>http://policy.umn.edu/Policies/Education/Education/GRADINGTRANSCRIPTS.html</u>.

Course Evaluation

The SPH will collect student course evaluations electronically using a software system called CoursEval: <u>www.sph.umn.edu/courseval</u>. 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: <u>www.sph.umn.edu/grades</u>. 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 <u>onestop.umn.edu</u>.

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 <u>onestop.umn.edu</u>.

Course Withdrawal

Students should refer to the Refund and Drop/Add Deadlines for the particular term at <u>onestop.umn.edu</u> 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 <u>sph-ssc@umn.edu</u> for further information.

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.

<u>mup.//regents.umm.edu/sites/deladit/mes/policies/otddent_oolden_oode.pdf</u>.

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: <u>http://www1.umn.edu/oscai/integrity/student/index.html</u>. 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. The Disability Resource Center Student Services 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 or <u>ds@umn.edu</u> 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: <u>http://www.mentalhealth.umn.edu</u>.

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 <u>http://www.osa.umn.edu/index.html</u>.

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. *[Customize with names and contact information as appropriate for the course/college/campus.]*

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. *[Customize with names and contact information as appropriate for the course/college/campus.]*

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

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