

**PubH 4030: Communicable Disease Control**  
**Fall Semester 2017**

**Instructor**

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BNR 327  
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Office Hours: Tues/Thurs 1:30 – 2:30pm  
Please email or stop by to schedule a visit at another time

**Schedule**

3 credit hours – Tuesday, Thursday 12:00pm – 1:15pm  
Merrill Cazier Library 421

**Required Textbook**

*The Microbial Challenge*, 3<sup>rd</sup> Edition. Krasner R.I. and T. Shors. 2014.

**Course Material**

Syllabus, Lecture Notes, Assignments, and Grades will be located on USU Canvas.

**Course Outcomes**

This course is designed to introduce students in public health and related health science fields to communicable diseases, from terminology, disease transmission, public health impact, and epidemiologic tools for control.

**The overall objectives of this class are as follows:**

- Gain factual knowledge (facts, terms, methods, trends) about the major infectious diseases that shape human society
- Learn basic principles, generalizations, and theories about communicable diseases and their control
- Develop skills, competencies, and views valuable for careers in public health and health education

**Grading**

Your final grade for the course will be determined by combining the points you receive for each of five major components. The final grade for the course will be determined as follows:

15% - Exam #1  
15% - Exam #2  
15% - Exam #3  
15% - Small Group Project  
15% - Quizzes  
25% - Cumulative final exam

Question material for quizzes, midterms and the final exam will come from the textbooks, course notes and lecture discussions.

Approximate grading scale:

A:	≥ 93%
A-:	≥ 90%
B+:	≥ 87%
B:	≥ 83%
B-:	≥ 80%
C+:	≥ 77%
C:	≥ 73%
C-:	≥ 70%
D+:	≥ 67%
D:	≥ 60%

Greater than 60% is required to pass

**Quizzes**

Daily quizzes will possibly be administered anytime during the lecture using an iClicker and/or through CANVAS (outside of lecture hours). Please register your iClicker ASAP. If a quiz will be administered through CANVAS, I will announce it in class and will provide instructions as to when it will need to be completed. Quizzes will consist of 5 questions (1 point per question). A student will

score a zero if they are absent or does not complete the quiz. Your lowest quiz scores for the semester will be dropped in the total point tabulation of the quizzes. An average quiz score will be calculated to determine 15% of the student's final quiz grade.

### **Exams**

**Three exams** will be issued during the term. Each exam will consist of 15% of your final grade. Please pay close attention to the course outline when studying for the exams. Each exam will be divided into 3 parts: 1. True/False, 2. Multiple Choice, and 3. Short Answer. Each of these exams will be issued through the USU Testing Center. You will have approximately 2 days to take each exam. Please schedule your test times as soon as possible. Students will have 75 minutes to complete the entire exam.

Exam #1 – 09/26 & 09/27

Exam #2 – 10/31 & 11/01

Exam #3 – 11/30 & 12/01

The **final exam** is scheduled to be available through the USU Testing Center on 12/13 & 12/14. You will have 1 hour and 50 minutes to complete the exam. The exam will consist of 25% of your final grade. The final exam format will be exactly like the previous exams. This final will be a comprehensive exam, including new material from the guest lecturer, and the laboratory tour. This exam will also be issued online as the previous exams.

### **Small Group Project**

Students will be required to complete a small group project which they will present in front of the class. This assignment will contribute to 15% of their final grade.

- Divide up into groups of 3-4 students (no more) and sign up for a presentation day
- Select an emerging infectious disease
- Write a script, story byline etc. for your presentation and submit by October 1<sup>st</sup>.
- Schedule, perform, or show your presentation between (October 31<sup>st</sup> or November 30th)
- Small group project description: Plan, produce, and show or perform a 3 to 5 minute Public Service Announcement (or “infomercial”) about the science, public health, social aspects, and control of an emerging infectious disease.

### **Course Evaluation**

Please complete online course evaluations during the last 2 weeks of the course. I do read them and use them to improve the course.

### **Course Fees**

There are no course fees associated with this course.

### **Classroom Environment and Civility**

As part of an academic university community, we encourage learning in an unbiased, open, respectful, and civil environment. Individual views, philosophies, and learning opportunities of all participants in this class – students, instructors and visitors alike - will be treated with respect and courtesy. Activities that distract from this environment (e.g. cell phone conversations, newspaper reading, etc) and other behaviors and activities that impede the learning environment are not acceptable and could be subject to disciplinary action as detailed in Article V of The Code of Policies and Procedure for Students at Utah State University (April 10, 2009). Sexist, homophobic, racist, or discriminatory remarks of any kind will not be tolerated.

### **Academic Integrity**

Policies regarding cheating on written examinations and plagiarism detailed in Article VI The Code of Policies and Procedure for Students at Utah State University (April 10, 2009) will be strictly followed.

### **Special Needs**

Students with physical, sensory, emotional or medical impairments may be eligible for reasonable accommodations in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. All accommodations are coordinated through the Disability Resource Center (DRC) in Room 101 of the University Inn, 797-2444 voice, 797-0740 TTY, or toll free at 1-800-259-2966. Please contact the DRC as early in the semester as possible. Alternate format materials (Braille, large print or digital) are available with advance notice.

**2017 COMMUNICABLE DISEASE CONTROL COURSE SCHEDULE**

<b>Day</b>	<b>Date</b>	<b>Lecture Topic</b>	<b>Readings in The Microbial Challenge</b>
T	29-Aug	Introduction - Identifying the Challenge	Chap. 1
TH	31-Aug	Microbes	Chap. 2
T	5-Sep	Concepts of Microbial Disease	Chap. 7
TH	7-Sep	Epidemiology	Chap. 8
T	12-Sep	Epidemiology	Chap. 8
TH	14-Sep	Bacteria and antibiotics	Chap. 4, Chap 6, Chap. 13, p. 398-406
T	19-Sep	Bacterial diseases (except STDs)	Chap. 9, p.201-226;231-243
TH	21-Sep	Bacterial diseases (except STDs)	Chap. 9, p.201-226;231-243
<b>T</b>	<b>26-Sep</b>	<b>Bacterial diseases (except STDs) (EXAM #1 09/26 &amp; 09/27)</b>	Chap. 9, p.201-226;231-243
TH	28-Sep	Viruses	Chap. 5, p.95-113
T	3-Oct	Viral diseases	Chap. 10, p. 255-285
TH	5-Oct	Viral diseases	Chap. 10, p. 255-285
T	10-Oct	Influenza, related viral diseases, and antivirals - <b>Dr. Craig Day</b>	Guest Lecture Notes, Chap. 10, 260-272, Chap. 13, 407-408
TH	12-Oct	STDs (minus HIV)- <b>Dr. John Malouf, USU Wellness Center</b>	Chap.9, p.226-231. Chap. 10, p. 272-274. Chap. 11, p. 315-316. Chap. 16, p. 466-482
T	17-Oct	HIV/AIDS - <b>Scott White, State of Utah Health Epidemiologist</b>	Presentation Notes
<b>TH</b>	<b>19-Oct</b>	<b>No Class - Friday Class Schedule</b>	
T	24-Oct	Tuberculosis and Prions	Chap. 5, p. 118-120. Chap. 10, p. 290-294. Chap. 16, 482-493
TH	26-Oct	Helminth diseases - <b>Dr. John Malouf, USU Wellness Center</b>	Chap. 11 p. 316-333
<b>T</b>	<b>31-Oct</b>	<b>Student Presentations and Exam Review (EXAM #2 10/31 &amp; 11/01)</b>	
TH	2-Nov	Fungi and Fungal diseases	Chap. 11, p. 333-341
T	7-Nov	Protozoa & Protozoan diseases	Chap. 11 p. 297-316
TH	9-Nov	Vector-Borne Diseases (bacteria, virus, parasite, helminth)	Class Notes, Chap. 9, p. 243-251. Chap. 10, p. 285-290. Chap. 11, p. 304-316
T	14-Nov	Vector-Borne Diseases continued	
TH	16-Nov	Control: Immunity, vaccination, antibiotics	Chap. 12, 13
T	21-Nov	Control of microbial diseases: Clean water, food safety, disinfection, sanitation, sterilization - <b>Dr. Craig Day</b>	Chap. 13
<b>TH</b>	<b>23-Nov</b>	<b>Holiday (Thanksgiving) No Class</b>	
T	28-Nov	Public Health & communicable diseases - <b>Dr. Allvn Nakashima Utah State Epidemiologist</b>	Guest Lecture Notes, Chap. 14
<b>TH</b>	<b>30-Nov</b>	<b>Student Presentations &amp; Exam Review (EXAM #3 11/30-12/01)</b>	
T	5-Dec	Practical applications of disease control - <b>Dr. John Bailey</b>	Class Presentation Notes
TH	7-Dec	<b>Logan Regional Hospital - Laboratory Visit &amp; Tour</b>	<b>12pm-1:30pm every 30 mins</b>
<b>TH</b>	<b>14-Dec</b>	<b>Comprehensive Final Exam: Wednesday 12/13 or Thursday 12/14 - USU Testing Center</b>	