



This course will serve as an excellent introductory course in infectious diseases for students who will be pursuing future graduate studies in Biology as well as for those who will be pursuing careers in medicine and public health.

**Educational outcomes: Listed at the end of syllabus**

**Attendance:** Attendance in lecture is mandatory and is part of the participation grade. The textbook is only a jumping-off point for the material we will cover in this course. The lectures will provide more detailed information and context to the subject. **You will have difficulty passing this course if you do not attend lecture.**

**Lecture Conduct:**

- Arrive on time.
- **Turn off/silence cell phones during class.**
- Don't talk during lecture **BUT** do ask questions
- Unless it's an emergency (and using your cell phone does not constitute an emergency) do not get up in the middle of lecture, leave and come back.
- **Do not leave class early** unless it's an emergency.
- During exams **NOBODY** can leave the exam and re-enter the exam room. If a student leaves, their exam will be graded as is; the student will not be allowed to finish the exam.

**Dropping the course:** The last day to drop the course is June 12, 20 yent leave

**Students with disabilities:** Students requiring special accommodations because of disability should discuss their needs with me as soon as possible. Those needing accommodations that are not registered with the Special Services Program must contact the Access Office for Students with Disabilities located in Farber Hall. The phone numbers are 245-2498 (voice) and 219-1348 (tty).

**Procedure for exams:**

No books, electronic devices, or notebooks will be allowed during exams and students using such items will be asked to leave and will receive a zero for the exam.

Cell phones must be turned off and they must be out of sight during the

addition you are to *analyze* and *evaluate* the study. In order to fully complete this assignment you should address the following questions in your critique:

- 1) **What was the purpose of this study?**
- 2) **What was known about the subject prior to the study (background)?**
- 3) **What questions did the researchers seek to answer?**
- 4) **What was the experimental design and methods? Were they novel or unique?**
- 5) **What were the results of the study?**
  
- 7) **How could the study be improved or what might be some follow-up experiments that the researchers could perform?**

Spelling and grammar will count!! **There will be a 10% reduction in grade for each day the assignment is late.**

**Participation (5%): This course will emphasize both lecture and discussion.** Attendance is mandatory. You should be prepared to ask questions and discuss the material. In addition to attendance all students will be expected to monitor ongoing disease outbreaks using resources available on the internet (<http://www.promedmail.org/>; <http://www.cdc.gov/mmwr/>; etc) and share information about ongoing outbreaks (you will stand and make a 1-2 minute presentation).

**You will lose participation points if you miss more than 2 lectures. Please contact me if you know you will need to miss a class during the term.**

**Grade Scale:** For Biology majors, a grade of C or higher is required for this course.

- A 90-100%
- B 80-89%
- C 70-79%
- D 60-69%
- F < 60%

### Summer XXXX TENTATIVE LECTURE SCHEDULE

| Topics  | Chapters               |
|---|------------------------|
| Unit 1 – Introduction and Bacterial Diseases            |                        |
| Course Intro<br>Brief History of Infectious Diseases    | Beltz 1                |
| How humans and pathogens interact                       | Beltz 2                |
| Lyme Disease  | Beltz 3                |
| Anthrax   | TBA                    |
| Plague  | TBA                    |
| Tuberculosis  | Beltz 10               |
| Cholera   | TBA                    |
| <b>EXAM #1</b>  | <b>To be announced</b> |
| <b>UNIT 2 Viral Infections</b>                          |                        |
| Ebola, Marburg, and Nipah virus                         | Beltz 12               |
| HIV and AIDS  | Beltz 16               |
| Epidemic and Pandemic Influenza                         | Beltz 19               |
| SARS and MERS   | Beltz 21               |
| Small pox and Monkey pox                                | Beltz 23               |
| <b>EXAM #2</b>  | <b>To be announced</b> |
| <b>UNIT 3 Vectorborne: viral and parasitic diseases</b> |                        |
| Arboviruses   | Beltz 15,22            |
| Malaria   | Beltz 24               |
| American Trypanosomiasis                                | Beltz 27               |
| African Trypanosomiasis                                 | TBA                    |
| Leishmaniasis   | TBA                    |
| Bioweapons  | Beltz 30               |
| <b>EXAM #3</b>  | <b>To be announced</b> |

4. Students will express themselves clearly, logically and precisely in writing and in speaking, and they will demonstrate competence in reading and listening. They will display the ability to write coherently in standard English; to speak well; to read, to understand, and to interpret the content of written materials in various disciplines; and to listen effectively and to understand different modes of communication.

7. Students will demonstrate the ability to analyze, to evaluate, and to make inferences from oral, written and visual materials. They will be skilled in inquiry, logical reasoning, and critical analysis. They will be able to acquire and evaluate relevant information, analyze arguments, synthesize facts and information, and offer logical arguments leading to creative solutions to problems.

9. Students will demonstrate understanding of the physical universe and the nature of science, and they will use scientific methods and/or mathematical reasoning and concepts to solve problems.