

Infectious Diseases- Biology 3311

Dr. Lee Ann Frederick

MWF 11:00-11:50

122 Life Science

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465 Life Science

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Faculty Profile: <https://www.uta.edu/mentis/public/#profile/profile/edit/id/4019/>

Office Hours: MWF 12:30-1:30; TR 1:00-2:00 or by appointment

Course Description: This course will cover key concepts that relate to the emergence, spread, and control of infectious disease epidemics.

STUDENT LEARNING OUTCOMES:

- Understand the basic disease dynamics of infectious organisms including: history, symptoms, diagnosis, transmission, and prophylaxis.
- Knowledge of current topics in infectious diseases including: emerging diseases, drug resistance, eradication of diseases, evolution of virulence, vaccine controversy, bioterrorism, epidemiology and recent outbreaks.
- *Critical Thinking Skills:* to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
- *Communication Skills:* to include effective development, interpretation and expression of ideas through written and oral communication.
- *Teamwork:* to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.

Required Materials: There are no mandatory resources for this course. However the following books will be referenced throughout the course: *Harrison's Infectious Diseases*, 2nd Ed.; *Viruses, Plagues, & History*, Oldstone; *Spillover*, Quammen; *The Coming Plague*, Garrett; *Killer Germs*, Zimmerman & Zimmerman. There will also be articles assigned throughout the semester that will be provided. You should have read the articles *before* class to participate in class discussions.

GRADING: Your grade will consist of 550 total points and be based on the following:

- A. 3 Lecture Exams, each 100 pts (50 multiple choice questions)
- B. Final Exam- based on student presentation, 100 pts (100 multiple choice questions)
- C. 2 Case Studies- each 25 pts
- D. Presentation- 100 pts

MAKE UP EXAMINATIONS: In the case that you miss a lecture exam due to an *excused* absence, your final exam will count twice. **There are no make-up exams.** Excused absences include getting sick (doctor's note), car accident (police report), or a death in the immediate family (copy of obituary). If you have an excused school absence (ROTC, athletic event, University organization event) or work excuse you will take the exam early. Unexcused absences will count as a zero.

EXAMINATIONS: All exams are multiple choice and require a scantron form 882-ES, #2 pencil, and an ID. There are three lecture exams and a final exam. The lecture exams are 50 multiple choice questions. **If you know you have a schedule conflict with an exam date, you must notify your professor within the first two weeks of class to take the exam early.** Exams are curved up to an average of 70% if needed. ID's are required for every exam. Students who arrive unprepared will be deducted points. If you forget your ID or a scantron, it is minus one point for each.

CASE STUDIES: Students will work in groups of five to answer questions on a clinical case study. One answer sheet will be submitted per group. Each case study is worth 25 points.

Title IX: *The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos. For information regarding Title IX, visit www.uta.edu/titleIX.*

ATTENDANCE POLICY: At the University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section, **attendance is highly recommended**. Excessive absences can potentially affect your course grade. If you miss class, **YOU** are responsible for obtaining missed information, class notes, etc. There is no textbook to study on your own and you are responsible for everything covered in class including case study material, documentaries watched, student presentations and lecture material.

STUDENT WITH DISABILITIES: If you require an accommodation based on disability, I would like to meet with you in the privacy of my office, during the first week of the semester, to make sure you are appropriately accommodated.

AMERICANS WITH DISABILITIES ACT: The university of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation: reference Public Law 93112--The Rehabilitation "Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act - (ADA), pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

As a faculty member, I am required by law to provide "reasonable accommodation" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels.

ACADEMIC INTEGRITY: It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Suspected violations of university's standards for academic integrity will be referred to the Office of Student Conduct. Discipline may include suspension or expulsion from the University. "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." All students enrolled in this course are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

In this course if you are caught cheating you will receive an automatic F for your overall course grade.

BLACKBOARD: **You are responsible for checking Blackboard on a regular basis.** All class notes, grades and information, including this syllabus can be found on Blackboard. If you have any questions, **please check Blackboard first**, if you still cannot find the information you are looking for, then you may email me.

To access blackboard: elearn.uta.edu

MAVMAIL: All students are assigned an email account; information about activating and using it is available at www.uta.edu/email. **Students are responsible for checking their email regularly.** ***Email Note:** When emailing me, be sure to **include your entire name and what class you are in**. I will not read the email if this information is not available. Be professional and courteous. You should always address your professors as: Professor or Dr. and include your full name.

STUDENT SUPPORT SERVICES: UTA has established a variety of programs to help students meet the challenges of college life. Support to students includes advising, counseling, mentoring, tutoring, supplemental instruction, and writing assistance. For a complete list of academic support services, visit the Academic Assistance resource page of the Office of Student Success Programs, www.uta.edu/uac/studentsuccess/academic-assistance. To help students address personal, academic and career concerns, individual counseling is also available. For more information, students are encouraged to contact Counseling Services www.counseling.uta.edu at (817) 272-3671 or visit a counselor in 216 Davis Hall or send a message to resources@uta.edu.

SOAR TUTORING: SOAR (Students Obtaining Academic Readiness) is located in 132 Hammond Hall and offers free academic support for qualifying students and low-cost services for all students, including Cost Share Tutoring.

FINAL REVIEW WEEK: A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week unless specified in the class syllabi. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. Classes are held as scheduled during this week and lectures and presentations may be given.

DROP POLICY: Students may drop classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their **academic advisor** to drop a class or withdraw. **Undeclared** students must see an advisor in the University Advising Center on the second floor of Davis Hall.

It is the student's responsibility to officially withdraw if they do not plan to attend after registering. *You* are responsible for seeing that all of the proper paperwork is completed and submitted to the appropriate university officials. If this paperwork is not completed, you will receive a letter grade corresponding to your earned grade, including zeros for all missed work. Students will not be automatically dropped for non-attendance. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. Contact the Financial Aid Office for more information.

As a result of recent legislation passed by the Texas Legislature, any student who enrolls in a public institution of higher education as a first-time freshman in Fall 2007 or later will be limited to six dropped courses during the course of their academic career. This applies to UTA course work and course work completed at other Texas public institutions. In addition, a student can only attempt the same course two times. On the third attempt, the student will be charged the equivalent of out-of-state tuition for the course.

Grade Replacement Policy: Students enrolling in a course with the intention of replacing a previous grade earned in the same course must declare their intention to do so at the Registrar's office by Census Date of the semester in which they are enrolled. Grade replacement will not be allowed if the above procedure is not followed.

Student Feedback Survey: At the end of each term, students enrolled shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit, which is located out the doors to the left or right. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist handicapped individuals.

BOMB THREATS: If anyone is tempted to call in a bomb threat, be aware that UTA will attempt to trace the phone call and prosecute all responsible parties. Every effort will be made to avoid cancellation of presentations/tests caused by bomb threats. Unannounced alternate sites will be available for these classes. Your instructor will make you aware of alternate class sites in the event that your classroom is not available.

AFTER HOURS SAFETY ESCORT: The Sam Mav Escort service provides a service to assist students, faculty, staff and campus visitors to reach their destinations after regular business hours. The hours of service are 7:00 p.m. to 1:00 a.m., Sunday through Saturday. 817-272-3381

Tentative Lecture Schedule: As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. –Dr. Frederick

This is an outline, this course has never been taught; I don't know how fast/slow we will move through material!! You need to come to class and check your email daily to stay on top of the class schedule. Saying you "didn't know" is not an excused absence in this course! It is your job to stay on top of announcements and emails and come to class!

Exam Dates- will not change

Case study/movie dates- are NOT set! I will announce those dates in class.

31-Aug	Intro, pathogenesis	23-Oct	Bubonic plague
2-Sep	Viruses, smallpox	26-Oct	Tuberculosis
4-Sep	Smallpox	28-Oct	Cholera
9-Sep	Chicken pox, measles	30-Oct	Movie??
11-Sep	Mumps, rubella, MMR vaccine	2-Nov	Typhoid fever, typhus
14-Sep	Vaccines	4-Nov	Scarlet fever, Strep- group A/B
16-Sep	Polio, enterovirus 68/71	6-Nov	Case study 2??
18-Sep	Yellow fever	9-Nov	Staph- antibiotic resis
21-Sep	Exam 1	11-Nov	Botulism, <i>E. coli</i> , Salmonella, Listeria
23-Sep	Hanta, Dengue	13-Nov	Lyme disease, malaria
25-Sep	Lassa	16-Nov	Exam 3
28-Sep	Ebola, Marburg	18-Nov	Presentations
30-Sep	Movie??	20-Nov	
2-Oct	Influenza	23-Nov	
5-Oct	HIV	25-Nov	
7-Oct	West Nile	27-Nov	
9-Oct	Rabies	30-Nov	
12-Oct	SARS, MERS, emerging diseases	2-Dec	
14-Oct	Hepatitis	4-Dec	
16-Oct	Case study	7-Dec	
19-Oct	Exam 2	9-Dec	
21-Oct	Anthrax	16-Dec	Final Exam 11:00