



HS 2212: INFECTIOUS DISEASES

Syllabus

Credits: 3

Prerequisites: BIOL 1122

Course Description:

This course provides an overview of the process by which disease is transmitted. Topics to be covered include the microbiology of viruses, bacteria and other infectious agents; host-parasite relations and coevolution; vectors of transmission; and social network models of transmission. These concepts are applied to real world case studies where students learn how to prevent the spread of disease, handle highly infectious patients, and deal with the social ramifications of interventions such as quarantines.

Required Textbook and Materials:

UoPeople courses use open educational resources (OER) and other materials specifically donated to the University with free permissions for educational use. Therefore, students are not required to purchase any textbooks or sign up for any websites that have a cost associated with them. The main required textbooks for this course are listed below, and can be readily accessed using the provided links. There may be additional required/recommended readings, supplemental materials, or other resources and websites necessary for lessons; these will be provided for you in the course's General Information and Forums area, and throughout the term via the weekly course Unit areas and the Learning Guides.

- This course does not contain a main textbook; resources to all required reading will be provided in the course Learning Guide for each week.

Software Requirements/Installation:

No special requirements.

Learning Objectives and Outcomes:

By the end of this course students will be able to:

1. Give examples of infectious diseases and their routes of transmission.
2. Relate the principles of immunity to the resistance, treatment, and prevention of disease.
3. Describe the consequences of various pathogens for the individual infected or the community.
4. Apply knowledge of disease characteristics to recommend actions in various scenarios.
5. Demonstrate appropriate research, writing, and citation skills.



Course Schedule and Topics:

This course will cover the following topics in eight learning sessions, with one Unit per week.

Week 1: Unit 1 - Infectious Disease: Past and Present

Week 2: Unit 2 - Immunity, Disease Prevention, and Challenges

Week 3: Unit 3 - Infections Spread Through the Air

Week 4: Unit 4 - Infections Transmitted via Skin, Mucous Membranes, or Fomites

Week 5: Unit 5 - Infections Acquired via Body Fluids, Tissue, or Blood

Week 6: Unit 6 - Infections Spread via Sexual Contact

Week 7: Unit 7 - Infections Due to Contact with Animals, Insects, Water, or Soil

Week 8: Unit 8 - Infections Caused by Ingestion of Food, Water, or Fecal Material

Week 9: Unit 9 - Course Review and Final Exam

Learning Guide:

The following is an outline of how this course will be conducted, with suggested best practices for students.

Unit 1: Infectious Disease: Past and Present

- Read the Infectious Diseases course syllabus
- Read through the Learning Guide and Unit 1 Reading Assignment
- Complete and submit Unit 1 Written Assignment
- Take and submit Unit 1 Self-Quiz
- Complete an entry in your Learning Journal

Unit 2: Immunity, Disease Prevention, and Challenges

- Peer-assess Unit 1 Written Assignment
- Read through the Learning Guide and Unit 2 Reading Assignment
- Complete Unit 2 Discussion Assignment by posting in the Discussion Forum
- Respond to three of your fellow classmates' posts in the Discussion Forum
- Complete and submit Unit 2 Written Assignment
- Take and submit Unit 2 Self-Quiz

Unit 3: Infections Spread Through the Air

- Peer-assess Unit 2 Written Assignment
- Read through the Learning Guide and Unit 3 Reading Assignment
- Complete Unit 3 Discussion Assignment by posting in the Discussion Forum
- Respond to three of your fellow classmates' posts in the Discussion Forum
- Take and submit Unit 3 Self-Quiz
- Take and submit Units 1-3 Graded Quiz
- Complete an entry in your Learning Journal



Unit 4: Infections Transmitted via Skin, Mucous Membranes, or Fomites

- Read through the Learning Guide and Unit 4 Reading Assignment
- Complete and submit Unit 4 Written Assignment
- Take and submit Unit 4 Self-Quiz
- Complete an entry in your Learning Journal

Unit 5: Infections Acquired via Body Fluids, Tissue, or Blood

- Peer-assess Unit 4 Written Assignment
- Read through the Learning Guide and Unit 5 Reading Assignment
- Complete Unit 5 Discussion Assignment by posting in the Discussion Forum
- Respond to three of your fellow classmates' posts in the Discussion Forum
- Complete and submit Unit 5 Written Assignment
- Take and submit Unit 5 Self-Quiz

Unit 6: Infections Spread via Sexual Contact

- Peer-assess Unit 5 Written Assignment
- Read through the Learning Guide and Unit 6 Reading Assignment
- Complete Unit 6 Discussion Assignment by posting in the Discussion Forum
- Respond to three of your fellow classmates' posts in the Discussion Forum
- Take and submit Unit 6 Self-Quiz
- Take and submit Unit 6 Graded Quiz
- Complete an entry in your Learning Journal

Unit 7: Infections Due to Contact with Animals, Insects, Water, or Soil

- Read through the Learning Guide and Unit 7 Reading Assignment
- Complete Unit 7 Discussion Assignment by posting in the Discussion Forum
- Respond to three of your fellow classmates' posts in the Discussion Forum
- Complete and submit Unit 7 Written Assignment
- Take and submit Unit 7 Self-Quiz

Unit 8: Infections Caused by Ingestion of Food, Water, or Fecal Material

- Peer-assess Unit 7 Written Assignment
- Read through the Learning Guide and Unit 8 Reading Assignment
- Take and submit Unit 8 Self-Quiz
- Complete an entry in your Learning Journal

Unit 9: Course Review and Final Exam

- Review the course and take the Review Quiz; it will not be included in the final grade
- Prepare for, take, and submit the Final Exam
- The Final Exam will take place during Week/Unit 9 (UoPeople time); exact dates, times, and other details will be provided accordingly by your instructor



Course Requirements

Written Assignments

Some units in this course require that you complete a Written Assignment. You are required to submit your assignments by the indicated deadlines and in addition, to peer-assess three of your classmates' assignments according to provided instructions. During this peer-assessment, you are expected to provide details in the feedback section of the assignment's Specimen Assessment Form, indicating why you awarded the grade that you did to your peer. Failure to submit assignments and/or peer-assessments may result in failure of the course.

Discussion Assignments

Some units in this course require that you complete a Discussion Assignment. You are required to develop and post a substantive response to the Discussion Assignment in the Discussion Forum. A substantive response is one that fully answers the question that has been posed by the instructor.

In addition, you must extend the discussion by responding to at least three of your peers' postings in the Discussion Forum.

Discussion Forums are only active for each current and relevant learning week, so it is not possible to contribute to the forum once the learning week has come to an end. Failure to participate in the Discussion Assignment by posting in the Discussion Forum as required may result in failure of the course.

Learning Journals

The Learning Journal is a tool for self-reflection on the learning process. In addition to completing directed tasks and assignments, you should use the Learning Journal to document your activities, record problems you may have encountered, and draft answers for Discussion/Written Assignments. The Learning Journal should be updated on a weekly basis, because they will be assessed by your instructor as part of your final grade.

Quizzes

This course will contain three types of quizzes – the Self-Quiz, the Graded Quiz, and the Review Quiz. These quizzes may contain multiple choice, true/false, or short answer questions.

The results of the Self-Quiz and the Review Quiz will not count towards your final grade. However, it is highly recommended that you complete the Self-Quiz each week to ensure that you have adequately understood the course materials. Along with the Reading Assignments, the results of the Self-Quiz should be used as part of an iterative learning process, to thoroughly cover and test your understanding of course material. You should use the results of your Self-Quiz each week as a guide to go back and review relevant sections of the Reading Assignments again. Likewise, the Review Quiz should be used to assist you in a comprehensive review and full understanding of all course material, in preparation for your Final Exam. The results of the Graded Quiz will count towards your final grade.

Final Exam

The Final Exam will take place following the completion of eight units of work. The format of the Final Exam is similar to that of the quizzes, and may contain a combination of different question



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types. The exam is a maximum of one hour in duration and is graded electronically. Specific instructions on how to prepare for and take the exam will be provided during Week/Unit 9.

Course Forum

The Course Forum is the place to raise issues and questions relating to the course. It is regularly monitored by the instructors, and is a good place to meet fellow students taking the same course. While it is not required to participate in the Course Forum, it is highly recommended.



Course Policies

Grading Components and Weights

Each graded component of the course will contribute some percentage to the final grading scale, as indicated here:

Graded Assignments	Weight
Learning Journals	10%
Two Graded Quizzes (2 @10%)	20%
Discussion Assignments	20%
Written Assignments	25%
Final Exam	25%
Total	100%

Grading Scale

This course will follow the standard 100-point grading scale defined by the University of the People, as indicated here:

Letter Grade	Grade Scale	Grade Points
A+	98-100	4.00
A	93-97	4.00
A-	90-92	3.67
B+	88-89	3.33
B	83-87	3.00
B-	80-82	2.67
C+	78-79	2.33
C	73-77	2.00
C-	70-72	1.67
D+	68-69	1.33
D	63-67	1.00
D-	60-62	0.67
F	Under 60	0.00

Grade Appeal

If you believe that the final grade you received for a course is erroneous, unjust, or unfair, please contact your course instructor. This must be done within seven days of the posted final grade. For more information on this topic, please review the Grade Appeal Procedure in the University Catalog.



Participation

Non-participation is characterized by lack of any assignment submissions, inadequate contributions to the Discussion Forums, and/or lack of peer feedback to Discussion/Written Assignments. Also, please note the following important points about course participation:

- Assignments must be submitted on or before the specified deadline. A course timeline is provided in the course schedule, and the instructor will specify deadlines for each assignment.
- Any student showing non-participation for two weeks (consecutive or non-consecutive) is likely to automatically fail the course.
- Occasionally there may be a legitimate reason for submitting an assignment late. Most of the time, late assignments will not be accepted and there will be no make-up assignments.
- All students are obligated to inform their instructor in advance of any known absences which may result in their non-participation.

Academic Honesty and Integrity

If and when you submit any work that requires research and writing, it is essential to cite and reference all source material. Failure to properly acknowledge your sources is known as “plagiarism” – which is effectively passing off an individual’s words or ideas as your own. University of the People adheres to a strict policy of academic honesty and integrity. Failure to comply with these guidelines may result in sanctions by the University, including dismissal from the University or course failure. For more information on this topic, please review the Academic Integrity Policy in the University Catalog.

Any materials cited in this course should be referenced using the style guidelines established by the American Psychological Association (APA). The APA format is widely used in colleges and universities across the world and is one of several style and citation formats required for publication in professional and academic journals. Purdue University’s Online Writing LAB (OWL) is a free website that provides excellent information and resources for understanding and using the APA format and style. The OWL website can be accessed here:

https://owl.purdue.edu/owl/purdue_owl.html

Code of Conduct

University of the People expects that students conduct themselves in a respectful, collaborative, and honest manner at all times. Harassment, threatening behavior, or deliberate embarrassment of others will not be permitted.

Any conduct that interferes with the quality of the educational experience is not allowed and may result in disciplinary action, such as course failure, probation, suspension, or dismissal. For more information on this topic, please review the Code of Conduct Policy in the University Catalog.