

IDS2935: The Next Pandemic

Quest 2 | section 8UFO

I. General Information

Class Meetings

Spring 2023

Time:	Asynchronous Online Instruction
Location:	All course materials are provided via Canvas

Instructor

Instructor:	Dr. Gabriela Hamerlinck Turlington 3122 352.294.9051
Office Hours: Office hours will be held both in Dr. Hamerlinck's office and via Zoom. The Zoom link will be provided on the front page of our Canvas course.	TBD (or by appointment)
E-Mail:	ghamerlinck@ufl.edu

Teaching Assistants

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Course Description

This course is an introduction to human diseases that have shaped our civilization. Students will learn about significant historic outbreaks, modern diseases that plague our society, and hypothesize what the next pandemic will be. Disease outbreaks today are growing increasingly complex with the many emerging social, political and demographic changes in our population, as well as dynamic changes in animal and vector populations and the environment. As a result, we need new and creative mechanisms of disease prevention and control. Diseases with a pandemic potential could greatly influence the social, political and economic stability of a country, region or even the world.

There will be a considerable focus on disease burden held by resource poor areas, as well as the underlying risk factors that lead to their emergence and geographic spread. We will review a variety of diseases that have a global health significance, and explore different

interventions (prevention and control strategies) used to reduce disease burden and stop disease outbreaks.

This Quest 2 course also leverages the geographical spread of historic pandemics to guide students through predicting where the next pandemic will strike – asking students to consider the following pressing questions: What social, political, biological, and environmental factors led to historic disease outbreaks? What would happen if our planet experienced a pandemic today? How can we prepare for the next disease pandemic?

Quest and General Education Credit

- Quest 2
- Biological Sciences (B)
- International (N)

This course accomplishes the [Quest](#) and [General Education](#) objectives of the subject areas listed above. A minimum grade of C is required for Quest and General Education credit. Courses intended to satisfy Quest and General Education requirements cannot be taken S-U.

Required & Recommended Course Materials: *None*. Students will be assigned a set of weekly readings and videos to watch before class. All readings and links to all videos will be made available through Canvas or in hard copy from the instructor.

Materials and Supplies Fees: *None*

Communication & Conduct

Meeting Policy

If you need help with any aspect of the course, you are encouraged to come to office hours (see the details on Page 1 of this syllabus). Alternatively, you can schedule a 1-on-1 meeting with the instructor. Please email Dr. Hamerlinck or your TAs to arrange a meeting time. Outside of office hours, email is the preferred method of contact. We will do our best to respond to messages within 48 hours (not including weekends or holidays). As a courtesy, please check the syllabus and Canvas before reaching out; answers to many of your questions can be found there.

Canvas

Important announcements and updates will be regularly posted to the course Canvas website, so be sure to check Canvas frequently. To ensure that you do not miss anything, please make sure that your Canvas profile is set to receive notifications.

Email Accounts

It is UF policy that you use your GatorLink account or Canvas when emailing your instructors; we will not answer emails sent from other accounts (e.g., personal Gmail, etc.).

Professional Conduct

All members of the class are expected to conduct themselves in a professional and respectful manner at all times. Please use appropriate etiquette when interacting with your peers and instructors, including on Canvas and via email. Students who behave disrespectfully or disruptively will be reported to the Dean of Students Office.

All members of the class will agree to a Course Contract during the first week of the semester that outlines conduct expectations. The Course Contract document is available on Canvas.

II. Graded Work

1. Description of Graded Work

Assignment	Description	Percent of Grade
Module Quizzes	Students will complete a weekly 5-question multiple-choice quiz on Canvas that will test their understanding of the assigned video.	20%
Reading homework	Students will complete a series of reading comprehension homework assignments wherein they briefly summarize one of the required readings in a module.	10%
Exams (x2)	Two short (one-hour) tests will be administered at the end of the first and second units. Each of the exams will comprise a mix of multiple choice, short answer, diagramming, and short essay responses.	20%
Discussions	Most modules have a graded discussion board assigned. Each discussion will provide a prompt for students to respond to related to the module's content. A response to a classmate is a necessary part of each discussion.	20%
Final Project	<p>Each student will complete a final project that designs the next pandemic and the global response plan. The final project is composed of three parts and is introduced during week 13:</p> <ul style="list-style-type: none"> Recorded presentation introducing The New Disease, a proposed management and surveillance plan, and summarizes both socioeconomic and cultural risk factors. Peer reviews. Each student is assigned two peer presentations to review according to the rubric. Each review also has students propose a new management strategy for their peer's New Disease. Each review is graded out of 25 points, for a total of 50 possible points. Term paper briefly summarizing The New Disease in written format. Students will also respond to prompts regarding the implementation of control, prevention and/or treatment strategies, a communication and cooperation plan, and how they intend to disseminate information between geographic locations and to the general public from scientists or public health officials. 	25%

Reflection	Students will periodically reflect on course themes and their personal beliefs and biases by composing a short reflection. There is one reflection per unit.	5%
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Unless otherwise noted, all assignments are scored out of 100 points.

Extra Credit

Extra credit assignments may be posted at the instructors' discretion only. Any other extra work submitted in order to raise a grade will not be accepted and requests for additional extra credit will not be considered.

Submitting assignments: All assignments must be submitted electronically via Canvas unless otherwise noted. Emailed or paper submissions for Canvas assignments will not be accepted. You are responsible for ensuring that all your work is uploaded correctly and completely by the deadline. Corrupted files will be treated as missing work (= 0 grade) until they are re-uploaded correctly and late penalties will apply if your resubmission is past the deadline. So, please always double check your files right after you upload them. If you experience technical problems when submitting your work in Canvas, contact the UF Computing Help Desk for assistance: <https://helpdesk.ufl.edu>.

Grading Scale

For information on how UF assigns grade points, visit:

<https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>

A	94 – 100%		C	74 – 76%
A-	90 – 93%		C-	70 – 73%
B+	87 – 89%		D+	67 – 69%
B	84 – 86%		D	64 – 66%
B-	80 – 83%		D-	60 – 63%
C+	77 – 79%		E	<60

Disputing a grade: If you wish to dispute a grade for any assignment, you must contact the instructor in writing within two business days (48 hours) after the assignment has been returned. In your message, you must include a specific explanation for why you think the grade is incorrect and how you think it should be changed. An instructor will then arrange a meeting with you to discuss the issue and determine whether or not the grade should be changed. The grade assigned following this meeting will be final.

Late Work & Make-Up Assignments

All assignments must be submitted by the due date and time indicated on Canvas. If an assignment is submitted late, 10% of its total point value will be deducted for every day that it is late. Credit cannot be earned for assignments that are turned in 5+ days past the due date, or for those that are submitted after the instructor has graded and returned the assignment to the class. Late work will not be accepted after the deadline for the final assignment in the course.

Extensions will be considered on a case-by-case basis (at the instructor's discretion) only in the event of unforeseen emergencies. In such a case, you must contact the instructor as soon as possible to discuss

the situation; note that the instructor may request documentation. No extensions will be granted for students who miss the due date for any other reason.

A note about deadlines: Remember, the due date does not have to be the “do” date. In other words, it is highly encouraged to work on your assignments in advance– do not wait until right before the deadline to submit your work. Last-minute computer problems or other non-emergency situations that arise right before the deadline are not valid reasons for requesting an extension; such requests will not be considered and late penalties will be applied to your work if it is not submitted before the deadline.

Grading Rubric(s)

Guided Reflection Rubric				
	Excellent Work	Standard Work	Needs Improvement	Points
Response to Prompt (Content)	75 to >50.0 pts The student provides a thoughtful reflection (personal feelings and application of the topic related to their career) and critical analysis of the topic.	50 to >0.0 pts The student provides either a thoughtful reflection or analysis of the prompt’s topic but not both.	0 pts The student does not include a personal reflection, nor do they focus their analysis on the main topic of the prompt.	75 pts
Response to Prompt (Communication of Ideas/ Grammar)	25 to >20.0 pts The student clearly communicates their ideas and uses proper grammar and spelling.	20 to >0.0 pts The student’s message is mostly clear, but multiple grammar or spelling errors make understanding difficult.	0 pts Multiple grammar or spelling errors lead to poor communication of ideas.	25 pts

Reading Homework Rubric				
	Excellent Work	Standard Work	Needs Improvement	Points
Response to Prompt (Content)	75 to >50.0 pts The summary succinctly captures the reading's main idea, point, or question.	50 to >25.0 pts The summary mostly captures the reading's main idea, point, or question.	25 to >0 pts The summary does not capture the reading's main idea, point, or question.	75 pts
Response to Prompt (Communication of Ideas/ Grammar)	25 to >20.0 pts The student communicates their ideas and uses proper grammar and spelling.	20 to >10.0 pts The student’s message is primarily clear, but multiple grammar or spelling errors make understanding difficult.	10 to >0 pts Needs Improvement Multiple grammar or spelling errors lead to poor communication of ideas.	25 pts

Discussion Board Rubric

	Excellent Work	Standard Work	Needs Improvement	Points
Response to Prompt (Content)	50 to > 40.0 pts The student provides a thoughtful reflection (personal feelings and application of the topic related to their career) and critical analysis of the topic.	40 to > 20.0 pts The student provides either a thoughtful reflection or analysis of the prompt's topic but not both.	20 to > 0 pts The student does not include a personal reflection, nor do they focus their analysis on the main topic of the prompt.	50 pts
Response to Prompt (Communication of Ideas/ Grammar)	25 to >20.0 pts The student clearly communicates their ideas and uses proper grammar and spelling.	20 to > 10.0 pts The student's message is mostly clear, but multiple grammar or spelling errors make understanding difficult.	10 to > 0 pts Multiple grammar or spelling errors lead to poor communication of ideas.	25 pts
Response to One Classmate	25 to >20.0 pts The student provides a clear, respectful reply and critique using proper grammar and spelling. The student adds to the comments of the classmate by explaining how the classmate's post impacted them or offering an alternative viewpoint to the classmate	20 to >10.0 pts The student provides a respectful reply but an element of their reply is unclear/poorly communicated and/or the student does not build upon the classmate's post.	10 to >0 pts The student does not reply, offers a very short reply that does not add anything new to the discussion, has a disjointed reply, or provides a disrespectful reply that is more attacking than critiquing the classmate's ideas	25 pts

Final Project (Presentation) Rubric				
	Excellent Work	Standard Work	Needs Improvement	Points
Basic introduction to the proposed New Disease	26 to >16.0 pts Student provides a clear and detailed description	16 to >6.0 pts Students provides a description where some elements are missing	6 to >0 pts Students' description lacks multiple major elements	26 pts
The proposed disease management	18 to >11.0 pts Student provides a clear and detailed description	11 to >5.0 pts Students provides a description where some elements are missing	5 to >0 pts Students' description lacks multiple major elements	18 pts

The proposed disease surveillance	12 to >8.0 pts Student provides a clear and detailed description	8 to >4.0 pts Students provides a description where some elements are missing	4 to >0 pts Students' description lacks multiple major elements	12 pts
Social-economic risk assessment	12 to >8.0 pts Student provides a clear and detailed description	8 to >4.0 pts Students provides a description where some elements are missing	4 to >0 pts Students' description lacks multiple major elements	12 pts
Cultural risk assessment	12 to >8.0 pts Student provides a clear and detailed description	8 to >4.0 pts Students provides a description where some elements are missing	4 to >0 pts Students' description lacks multiple major elements	12 pts
Concluding remarks	10 to >6.0 pts Student provides a clear and detailed description	6 to >3.0 pts Students provides a description where some elements are missing	3 to >0 pts Students' description lacks multiple major elements	10 pts
Oral presentation quality	10 to >6.0 pts Presentation is free of space fillers (ah, um, well, like, etc.). Shows strong vocal variety, enthusiasm, enunciates clearly. Follows formatting guidelines.	6 to >3.0 pts Rarely uses space fillers (ah, um, well, like, etc.). Shows some vocal variety, enthusiasm. A few words not enunciated clearly. Mostly follows formatting guidelines.	3 to >0 pts Show minimal vocal variety, enthusiasm. Some words not enunciated clearly. Does not follow formatting guidelines.	10 pts

Final Project (Term Paper) Rubric				
	Excellent Work	Standard Work	Needs Improvement	Points
Basic introduction to the proposed New Disease	15 to >10.0 pts Student provides a clear and detailed description	10 to >5.0 pts Students provides a description where some elements are missing	5 to >0 pts Students' description lacks multiple major elements	15 pts
Implementation of management strategies	40 to >20.0 pts Student provides a clear and detailed description	20 to >10.0 pts Students provides a description where some elements are missing	10 to >0 pts Students' description lacks multiple major elements	40 pts
Communication and cooperation plan	20 to >10.0 pts Student provides a clear and detailed description	10 to >5.0 pts Students provides a description where	5 to >0 pts Students' description lacks multiple major elements	20 pts

		some elements are missing		
Dissemination plan	15 to >10.0 pts Student provides a clear and detailed description	10 to >5.0 pts Students provides a description where some elements are missing	5 to >0 pts Students' description lacks multiple major elements	15 pts
Report quality	10 to >6.0 pts Writing is clear and concise, using references when appropriate. Follows all formatting requirements.	6 to >3.0 pts Writing is mostly clear and concise, generally uses references when appropriate. Follows some formatting requirements.	3 to >0 pts Writing is not clear or concise, appropriate references not used. Many formatting requirements not met.	10 pts

III. Annotated Weekly Schedule

Students should note that the syllabus is a guideline and that there may be changes to the class schedule.

Module and Topic	Required Learning Content and Assignments
Unit 1: Historic Pandemics	
Module 1: Introduction to Pandemics	<p>At the end of this module, students will be able to 1) define infectious and noninfectious diseases, 2) explain what is meant when an organism is termed an "infectious agent," and 3) compare and analyze different types of infectious agents.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Lecture defining what a disease is, how it becomes an epidemic or a pandemic, and a summary of agents of disease • Senthilingam, M. (2017, April 10). <i>Seven reasons we're at more risk than ever of a global pandemic</i>. CNN. • <i>Agents of Disease</i> (14 pages; adapted from EDC's Exploring Infectious Disease) • Hillman, D. & Baron, A. (producers). (2013). Don't Panic – The Facts About Population. Wingspan Productions for BBC. (59 mins). <p>Assignments:</p> <ul style="list-style-type: none"> • Reading homework – Agents of Disease
Module 2: Plague	<p>At the end of this module, students will be able to 1) identify different types of plague, 2) identify the transmission pathways of plague, 3) explain how plague relates to quarantine, and 4) reflect on your beliefs, biases, and experiences with respect to historical plague outbreaks.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Lecture introducing how the plague has shaped human society, including basic plague biology and a summary of the three historic plague pandemics. • Barbieri, R., Signoli, M., Chev�, D., Costedoat, C., Tzortzis, S., Aboudharam, G., Raoult, D., & Drancourt, M. (2020). <i>Yersinia pestis: The natural history of plague</i>. <i>Clinical Microbiology Reviews</i>, 34(1). https://doi.org/10.1128/cmr.00044-19. • Wright, C. & Scott, K. (producers). (2014). Return Of The Black Death. British Broadcasting Corporation. (47 mins). <p>Assignments:</p> <ul style="list-style-type: none"> • Reading Homework – Plague • Module quiz - Plague • Guided Reflection

<p>Module 3: Influenza</p>	<p>At the end of this module, students will be able to 1) discuss the 1918 Spanish Flu pandemic from Biological and Geopolitical-Socioeconomic viewpoints, 2) summarize the major perspectives about the risk of historic and future influenza pandemics, and 3) identify common characteristics of historic influenza pandemics.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Lecture about the influenza pathogen, and the annual flu shot. A brief introduction to the 20th century influenza pandemics and some future flu threats to think about global preparedness planning. • Taubenberger, J. K., & Morens, D. M. (2006). 1918 Influenza: the mother of all pandemics. <i>Emerging infectious diseases</i>, 12(1), 15–22. https://doi.org/10.3201/eid1201.050979. • Webster, R. G., & Walker, E. J. (2003). Influenza: The world is teetering on the edge of a pandemic that could kill a large fraction of the human population. <i>American Scientist</i>, 91(2), 122–129. http://www.jstor.org/stable/27858180. • Thompson, A. (producer). (2018). The Flu That Killed 50 Million. [Video/DVD] BBC Worldwide. (57 mins). <p>Assignments:</p> <ul style="list-style-type: none"> • Reading Homework – Influenza • Module quiz - Influenza • Discussion – Influenza
<p>Module 4: Smallpox</p>	<p>At the end of this module, students will be able to 1) identify characteristics of smallpox, 2) reflect on your beliefs, biases, and experiences with respect to historic smallpox outbreaks, 3) summarize the major perspectives about the relationship between smallpox and pandemics, and 4) develop a course of action to stop the spread of disease based on the given scenario.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Lecture that includes a basic introduction to the smallpox pathogen and the clinical manifestations of disease; a timeline of historic smallpox outbreaks; a brief account of the smallpox vaccine and global eradication; and some thoughts on the potential threat of smallpox being used as a bioterror agent. • Henderson D. A. (2011). The eradication of smallpox--an overview of the past, present, and future. <i>Vaccine</i>, 29 Suppl 4, D7–D9. https://doi.org/10.1016/j.vaccine.2011.06.080. • Tognotti E. (2010). The eradication of smallpox, a success story for modern medicine and public health: what lessons for the future?. <i>Journal of infection in developing countries</i>, 4(5), 264–266. https://doi.org/10.3855/jidc.1204. • Brilliant, L. (2006). My Wish: Help me stop pandemics. TED Conferences. https://youtu.be/MNhiHf84P9c. (27 mins). <p>Assignments:</p> <ul style="list-style-type: none"> • Reading Homework – Smallpox • Module quiz - Smallpox • Discussion – Smallpox and Research Ethics

<p>Module 5: Exam</p>	<p>At the end of this module, students will be able to 1) review concepts and material from Week 1 to Week 4, and 2) identify key concepts and major knowledge covered from Week 1 to Week 4.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Unit summary video to help you start to organize your thoughts in preparation for the first exam. <p>Assignments:</p> <ul style="list-style-type: none"> • Discussion – Exam 1 Review • Exam 1
<p>Unit 2: Current Pandemics</p>	
<p>Module 6: Vaccines</p>	<p>At the end of this module, students will be able to 1) identify the common types of vaccines in use today, 2) identify strengths and weaknesses of ongoing vaccination campaigns, 3) summarize the major arguments about the vaccine use given competing evidence and viewpoints, and 4) create an infographic to present a piece of vaccine history.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Lecture summarizing how vaccines are made and the different types of vaccinations. The lecture also includes two case studies: measles (MMR) as a vaccine success story, and Dengvaxia as a vaccination failure story. • Fatima, K., & Syed, N. I. (2018). Dengvaxia controversy: impact on vaccine hesitancy. <i>Journal of global health, 8</i>(2), 010312. https://doi.org/10.7189/jogh.08-020312. • Gubler, D. J., & Halstead, S. B. (2019). Is Dengvaxia a useful vaccine for dengue endemic areas?. <i>BMJ (Clinical research ed.)</i>, 367, I5710. https://doi.org/10.1136/bmj.I5710. • Summers, B. (producer). (2016). Dengue: The hunt for a vaccine. [Documentary] Rockhopper Productions, Ltd. (45 mins). <p>Assignments:</p> <ul style="list-style-type: none"> • Reading Homework – Vaccines • Module quiz - Vaccines • Discussion – Vaccines
<p>Module 7: Coronaviruses</p>	<p>At the end of this module, students will be able to 1) identify what COVID-19 stands for, 2) differentiate the relationship between COVID-19 and coronaviruses, 3) identify what impact COVID-19 had on public health and human history, 4) explain the advantages of using mathematical disease modeling to understand a pandemic, and 5) create an infographic to present how a certain country responded to the COVID-19 pandemic.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Lecture summarizing the coronaviruses that have caused recent epidemics and pandemics, and how diseases get their names. The lecture also helps us understand how we can quantify how impactful a disease is in a population.

	<ul style="list-style-type: none"> Recorded seminar by Dr. Nina Fefferman (UT-Knoxville) titled “The role of applied math in real-time pandemic response: How basic disease models work.” (83 mins). Interactive NY Times article “How the virus won.” (https://www.nytimes.com/interactive/2020/us/coronavirus-spread.html) One of: <ul style="list-style-type: none"> van der Graaf, R., Browne, J. L., & Baidjoe, A. Y. (2022). Vaccine equity: Past, present, and future. <i>Cell Reports Medicine</i>, 3(3), 100551. https://doi.org/10.1016/j.xcrm.2022.100551. Harman, S., Erfani, P., Goronga, T., Hickel, J., Morse, M., & Richardson, E. T. (2021). Global vaccine equity demands reparative justice — not charity. <i>BMJ Global Health</i>, 6(6). https://doi.org/10.1136/bmjgh-2021-006504. Nkengasong, J. N., Ndembi, N., Tshangela, A., & Raji, T. (2020). Covid-19 vaccines: How to ensure Africa has access. <i>Nature</i>, 586(7828), 197–199. https://doi.org/10.1038/d41586-020-02774-8. Two of a series of mainstream media pieces summarizing current events. The list of available articles will be updated to reflect the most recent publications and available via Canvas. Examples include: <ul style="list-style-type: none"> Brossard, D., & Scheufele, D. A. (2022). The chronic growing pains of communicating science online. <i>Science</i>, 375(6581), 613–614. https://doi.org/10.1126/science.abo0668 Klein, E. (2022). The COVID policy that really mattered wasn’t a policy. NY Times. <p>Assignments:</p> <ul style="list-style-type: none"> Reading Homework – Coronaviruses Module quiz - Coronaviruses Discussion – Coronaviruses
Module 8: Cholera	<p>At the end of this module, students will be able to 1) analyze the global efforts in controlling cholera, 2) identify the history of cholera and how it relates to the field of medical geography, 3) identify what impact historic cholera outbreaks have on public health, and 4) summarize the key points of the assigned reading.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> Lecture introduces the pathogen and disease, outlines the historic cholera pandemics and the current pandemic, as well as describes the WHO roadmap to addressing the cholera threat by 2030. Acevedo, C. G. F. (2020). From Cholera to COVID-19: A Historical Review of Misinformation during Pandemics. <i>Progressio Journal on Human Development</i>, 14(1). Harman, S., Erfani, P., Goronga, T., Hickel, J., Morse, M., & Richardson, E. T. (2021). Global vaccine equity demands reparative justice — not charity. <i>BMJ Global Health</i>, 6(6). https://doi.org/10.1136/bmjgh-2021-006504. George, R. (2013). <i>Let’s talk crap. Seriously.</i> TED Conferences. (14 mins). <p>Assignments:</p> <ul style="list-style-type: none"> Reading Homework – Cholera

	<ul style="list-style-type: none"> • Module quiz - Cholera • Discussion – Cholera
Module 9: Obesity	<p>At the end of this module, students will be able to 1) explain the strengths and weaknesses of public health strategies to control the ongoing obesity pandemic, 2) utilize different tools to analyze and distinguish obesity, 3) identify different influences of factors on obesity, and 4) explain the concept of the double burden of obesity and malnutrition and how it relates to poverty.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Lecture introducing obesity as a pandemic, the global burden of the chronic condition, and who and/or what is to blame for the obesity pandemic, and what we can do to stop it. • Ford, N. D., Patel, S. A., & Narayan, K. V. (2017). Obesity in low-and middle-income countries: burden, drivers, and emerging challenges. <i>Annual review of public health</i>, 38, 145-164. • Caballero, B. (2007). The global epidemic of obesity: an overview. <i>Epidemiologic reviews</i>, 29(1), 1-5. • Hoffman, J. (producer). (2012). <i>Weight of the Nation: Poverty and Obesity</i>. [Documentary] HBO. (24 mins). <p>Assignments:</p> <ul style="list-style-type: none"> • Reading Homework – Obesity • Module quiz - Obesity • Discussion – Hungry Planet: Global Diets
Module 10: Exam	<p>At the end of this module, students will be able to 1) review concepts and material from Week 6 to Week 9, and 2) identify key concepts and major knowledge covered from Week 6 to Week 9.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Unit summary video to help you start to organize your thoughts in preparation for the second exam. <p>Assignments:</p> <ul style="list-style-type: none"> • Discussion – Exam 2 Review • Exam 2
Unit 3: Future Pandemics	
Module 11: Climate and Health	<p>At the end of this module, students will be able to 1) compare and contrast the national and global effects of climate on human health, 2) summarize the key points of the assigned reading, and 3) propose a solution to combat a specific climate-sensitive health issue.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Lecture focuses on a variety of health-related impacts of climate change and global warming. • McMichael, A. J., Woodruff, R. E., & Hales, S. (2006). Climate change and human health: present and future risks. <i>Lancet (London, England)</i>, 367(9513), 859–869. https://doi.org/10.1016/S0140-6736(06)68079-3.

	<ul style="list-style-type: none"> • Lustgarten, A. (2020, May 7). <i>How climate change is contributing to skyrocketing rates of infectious disease</i>. ProPublica. • Interview with Dr. Renee Salas on the effects of climate change on human health and health systems. Produced by the New England Journal of Medicine. (13 mins). <p>Assignments:</p> <ul style="list-style-type: none"> • Reading Homework – Climate and Health • Discussion – Mitigating the effects of climate change on human health
Module 12: Ebola	<p>At the end of this module, students will be able to 1) identify the history and characteristics of Ebolavirus Disease, 2) identify the impact of Ebola on global public health, 3) propose and evaluate the pandemic potential of a hypothetical Ebola mutation, and 4) summarize the key points of the assigned reading.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Lecture introduces the history, transmission, and clinical manifestation of Ebola using the 2014-2016 Western Africa epidemic as a case study. • Zimmer, C. (2014, October 24). <i>As ebola spreads, so have several fallacies</i>. The New York Times. • Kilgo, D. K., Yoo, J., & Johnson, T. J. (2019). Spreading Ebola Panic: Newspaper and Social Media Coverage of the 2014 Ebola Health Crisis. <i>Health communication</i>, 34(8), 811–817. https://doi.org/10.1080/10410236.2018.1437524. • Elisco, D. & Barrat, J. (producers). (2016). <i>Spillover – Zika, Ebola & Beyond</i>. [Documentary] Public Broadcasting Service. (56 mins). <p>Assignments:</p> <ul style="list-style-type: none"> • Reading Homework – Ebola • Module quiz - Ebola • Discussion – Ebola as the Next Pandemic
Module 13: Final Project	<p>At the end of this module, students will be able to 1) propose a new disease, disease management, disease surveillance, social-economic risk assessment, and cultural risk assessment in the final presentation, 2) communicate effectively in the final presentation, 3) evaluate peers' presentations by using learned tools and knowledge, and 4) develop a disease management plan for a given pandemic threat.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Recorded introduction to the three final project assignments: the presentation, peer reviews, and term paper. The goal of the final project is to develop a New Disease that you believe will cause the next pandemic. You will also be producing a pandemic preparedness plan to combat or prevent the New Disease from spreading. <p>Assignments:</p> <ul style="list-style-type: none"> • Final Presentation • Peer Reviews

	<ul style="list-style-type: none"> • Term Paper
Module 14: Zombies	<p>At the end of this module, students will be able to 1) explain syndromic surveillance, and 2) discuss the differences between management of real-life diseases and fictitious zombie cases.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Lecture compares zombieism to rabies, considers the pandemic potential of zombies, and poses some hypothetical questions about disease control and ethics. • Centers for Disease Control and Prevention (U.S.), Office of Public Health Preparedness and Response. (n.d.). <i>Preparedness 101; Zombie pandemic</i>. Centers for Disease Control and Prevention. • Yong, E. (2014). <i>Zombie roaches and other parasite tales</i>. TED Conferences. (13 mins). <p>Assignments:</p> <ul style="list-style-type: none"> • Discussion – Stopping the Zombie Pandemic
Module 15: Wrap Up	<p>At the end of this module, students will be able to 1) reflect on the new knowledge and skills gained from this course, 2) summarize the core value and key terms of this course, and 3) develop a disease management plan for a given pandemic threat.</p> <p>Required Learning Content:</p> <ul style="list-style-type: none"> • Lecture with a brief summary of pandemic fatigue and how pandemics end. • Farewell recording to summarize the semester. • PBS interview with David Quammen called “Why deadly viral pandemics are becoming more common?” (14 mins). <p>Assignments:</p> <ul style="list-style-type: none"> • Guided Reflection – Future Pandemics

IV. Required Policies

Attendance Policy

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Students Requiring Accommodation

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

UF Evaluations Process

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.ua.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.ua.ufl.edu/public-results/>.

University Honesty Policy

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Campus Resources

Health and Wellness

- *U Matter, We Care*: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care website to refer or report a concern and a team member will reach out to the student in distress.
- *Counseling and Wellness Center*: Visit the Counseling and Wellness Center website or call 352-392-1575 for information on crisis services as well as non-crisis services.
- *Student Health Care Center*: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website.
- *University Police Department*: Visit UF Police Department website or call 352-392-1111 (or 9-1-1 for emergencies).
- *UF Health Shands Emergency Room / Trauma Center*: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the UF Health Emergency Room and Trauma Center website.
- *GatorWell Health Promotion Services*: For prevention services focused on optimal wellbeing, including Wellness Coaching for Academic Success, visit the GatorWell website or call 352-273-4450.

Academic Resources

- *E-learning technical support*: Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at helpdesk@ufl.edu.
- *Career Connections Center*: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.
- *Library Support*: Various ways to receive assistance with respect to using the libraries or finding resources.
- *Teaching Center*: Broward Hall, 352-392-2010 or to make an appointment 352-392-6420. General study skills and tutoring.
- *Writing Studio*: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.
- *Student Complaints On-Campus*: Visit the Student Honor Code and Student Conduct Code webpage for more information.
- *On-Line Students Complaints*: View the Distance Learning Student Complaint Process.

In-Class Recordings

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University,

or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

If students have concerns about classroom issues, disagreements or grades, their first point of contact is the classroom instructor whose contact information appears on the syllabus. If the problem cannot be resolved, the student should email the next departmental contact: in classes with TAs, this is the instructor of record, in classes without TAs, this may be the department chair. Their contact information can be found on the program’s website at <https://geog.ufl.edu/>. That email should include a clear description of the student’s concern, and any supporting documents. Most concerns are resolved at this level. If a resolution cannot be reached at the departmental level, the student will be referred to the Office of the UF Ombuds <https://www.ombuds.ufl.edu>.