

UNIVERSITY OF FLORIDA
Department of Geography
GEOG 3454 People and Plagues
SYLLABUS: Fall 2023

Instructor information

Instructor:	Dr. Gabriela Hamerlinck Turlington 3122 352.294.9051
Office Hours: Turlington Hall 3122 Also held remotely via Zoom, check Canvas for the link	Wednesday 9:00 am – 11:00 am 1:00 pm – 4:30 pm (or by appointment, please email to schedule)
E-Mail:	ghamerlinck@ufl.edu

Course information

Time:	Tu/Th; 6-7, 6 (Tu: 12:50 pm – 2:45 pm; Thurs: 12:50 pm – 1:40 pm)
Location:	Weil Hall 0273

Course description

This course is an introduction to emerging infectious diseases (EIDs) in the context of previous outbreaks, focusing on geography, origin, and management response. We will explore basic models of infectious disease processes, transmission cycles and life-histories of host-vector systems, and the ecological and landscape conditions that favor emergence. We will also explore the social, demographic, economic, and environmental context of historical and modern epidemics. The course will comprise lecture style introductions to weekly themes, which will center around a disease, or group of diseases, as illustrations of the impact of outbreaks, responses, or environmental context. These lecture style sessions will be complemented with student-led discussions and/or group activities, based on the readings and exercises provided by the instructor. Readings and supporting materials are taken from a wide variety of sources such as academic journals, popular news sources and magazines, agency factsheets, documentaries, and popular literature and movies. Both assigned and optional readings will be made available to students to develop thoughts and discussions. Accordingly, students will be expected to have read the assigned reading and be prepared to comment and participate in discussion.

Course objectives & Student learning outcomes

- Define and learn terminology used to discuss and describe emerging infectious diseases (EIDs): hosts, reservoirs, vectors, accidental hosts, dead-end hosts, viral chatter, micro- and macroparasites.
- Describe and discuss EID history and management: Case histories, previous management responses, successes and failures, public perceptions, social impacts and education, the role of veterinary, agricultural and public health players and agencies.
- Explore EIDs and Ecology: how emergence interacts with the landscape from ecological, demographic and climate perspectives, and what that will mean in the future.

After completing this course students should be able to:

1. Define what an emerging infectious disease (EID) is, and discuss how this differs from endemic and chronic diseases.
2. Describe and discuss past outbreaks of infectious diseases, particularly of zoonotic origin, their impact and management.
3. Describe the ecological conditions that favor disease emergence and how this fits into our current understanding of the domestic-agricultural-wildlife interfaces, and future global change predictions.
4. Define and learn fundamental EID terminology, such as: hosts, reservoirs, vectors, accidental hosts, dead-end hosts, viral chatter, micro- and macroparasites.
5. Explore *basic* quantitative models of infectious disease processes, understanding of R_0 and compartmental modeling.
6. Describe the direct and indirect transmission cycles for several EIDs of concern, and several aspects of their in-host immunological and cellular biology.
7. Discuss potential intervention and management strategies for different scenarios of EIDs, from veterinary cordons to economic strategies to public health plan implementation.

Required texts

None. Students will be assigned a set of weekly readings, made available to them online, or in hard copy from the instructor.

Graded work

1. Class participation (150 points - 15%)

Students are expected to participate in discussions, and will lead specific discussions in groups of 2-3 via a short presentation of the discussion topic (<10 minutes), and introducing questions based on the readings, for the class to explore. Students will be assigned a date and a specific discussion topic to lead following the drop/add date once the number of students in the class is finalized.

2. Reading comprehension homework (100 points - 10%)

Students are expected to complete 10 reading comprehension homework assignments prior to each class discussion. These assignments are to be completed and submitted via Canvas

3. In-class tests (300 points - 30%)

Three short (one-period) tests will be administered throughout the course, in class. These will comprise a mix of short answer, matching, and short essay responses. Each test is worth 100 points. The third exam is comprehensive and will occur during finals week.

4. Review/Critique short paper (100 points - 10%)

Students will write a short essay (ca. 1,000 words, 3-5 pages), on a book, movie, documentary, or set of articles, related to the course themes. Topic approval by the instructor is required.

5. Final paper (350 points - 35%)

Students will work in pairs or groups of three to take one of the diseases we discuss, or another EID of choice, and go into much greater depth. This paper will address multiple facets of the EID, such as economic and social impacts, biological detail beyond the scope of the course, management history or potential options, etc. Length is 4,000-4,500 words, and must have proper references. We will approach this in stages, with a final copy due the last week of class, although you can turn it in early. The stages of paper development will be graded and returned to the student pair, to ensure progress: Outline – 50 points, Draft – 50 points, Peer review of 2 classmate’s drafts – 50 points (25 points each), Final paper – 200 points. Rubrics are available on Canvas.

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>.

Classroom policies

Grading scale:

A	100 %	to 94.0%	C	< 77.0 %	to 74.0%
A-	< 94.0 %	to 90.0%	C-	< 74.0 %	to 70.0%
B+	< 90.0 %	to 87.0%	D+	< 70.0 %	to 67.0%
B	< 87.0 %	to 84.0%	D	< 67.0 %	to 64.0%
B-	< 84.0 %	to 80.0%	D-	< 64.0 %	to 61.0%
C+	< 80.0 %	to 77.0%	E	< 61.0 %	to 0.0%

You determine your grade based on the quality and frequency of your work. Consequently, your time management skills, time spent on assignments, and communication with me when you have questions or concerns regarding tests and assignments will impact your success within this course. With this approach of grading on adherence to predetermined standards, there is no preconceived distribution of grades. Everyone or no one can receive an “A.” Please note that I do not round up grades— requests to do so will not be considered.

For current UF policies on assigning grade points, consult the following policy website: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

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. The instructor will then arrange a meeting with you to discuss the issue and determine whether or not to 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 you miss a class, you are still responsible for turning in the work due on that date at the required time. 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.

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 to arrange a meeting time. Outside of office hours, email is the preferred method of contact. I will do my 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 during class, 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.

University Policies

University Policy on Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity." You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit 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."

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code>.

Instructors' note: Any action that subverts the learning goals of the course (or a particular course activity) will be treated as academic misconduct and reported to the Dean of Students Office. This includes– but is

not limited to– cheating or assisting others in cheating, plagiarism (i.e., misrepresenting someone else’s work as your own, whether it is copied directly or paraphrased), self-plagiarism (i.e., copying/reusing work that you have submitted previously), collaborating with others when it is not permitted, fabricating data, lying to an instructor, and bad faith attempts to undermine the intent of an learning activity. In addition to being reported to the Dean of Students Office, a student will earn a grade of 0 on any assignment that is plagiarized or that otherwise violates these academic honesty policies. This 0 grade is irreversible– it cannot be dropped and the assignment cannot be resubmitted for a different grade. After this, any subsequent incidents of plagiarism or academic honesty will result in an automatic E (= failing grade) in the course.

Accommodations for Students with Disabilities

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services, and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation.

Disability Resource Center

001 Reid Hall

(352) 392-8565 | <https://disability.ufl.edu/>

Instructors’ note: We want you to succeed in this course! To ensure your accommodations are in place when you need them, please be sure to have your DRC accommodation letter sent to us as early as possible– ideally at the beginning of the semester.

Policy on Recording Class Sessions

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.

Use of Electronic Devices

You may use personal electronic devices such as laptops or tablets in class, unless otherwise noted by the instructor. However, it is your responsibility to make sure that you use your devices in a professional and courteous manner. This includes:

- Limiting device use only to activities that are directly related to your learning of course material, such as taking notes or running data analyses. Using your devices for any other purpose is not allowed in the classroom; doing so is disrespectful to the instructor, distracting to your fellow students, and robs you of a quality learning experience.
- Keeping your devices muted at all times to prevent disrupting others around you.
- Quietly stepping out into the hall if you must take a call or contact someone. We understand that emergencies can happen and will not prevent you from attending to them, but we also ask that you try to minimize disruptions to your peers.

If your device use is disruptive or inappropriate, you will be asked to put away your device. Students who repeatedly violate this policy will no longer be allowed to use devices in class.

Course Evaluations

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. 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/>.

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general wellbeing are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance:

University Counseling & Wellness Center

Counseling Services, Groups and Workshops, Outreach and Consultation, Self-Help Library,
Wellness Coaching
3190 Radio Road
(352) 392-1575; <https://counseling.ufl.edu>

Other campus resources include:

U Matter, We Care: <http://umatter.ufl.edu>

Career Connections Center: Reitz Student Union- First Floor; (352) 392-1601;
<http://career.ufl.edu>

Student Success Initiative: <http://studentsuccess.ufl.edu>

Student Complaints: Complaints regarding on-campus courses may be filed at <https://sccr.dso.ufl.edu/policies/student-honor-code-studentconduct-code/>. For online courses, please see <https://distance.ufl.edu/getting-help/student-complaint-process/>

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It is your responsibility to ensure that you fully understand the policies outlined in this syllabus as well as the policies of the university as they relate to this course. By remaining enrolled in this course, you agree that you have read and understood all of these policies and that you will be held accountable to them.

At their discretion, the instructor may change aspects of the course during the semester to accommodate new opportunities, unforeseen disruptions, or other circumstances. These changes will be communicated clearly in class and through Canvas. The current version of the syllabus will always be available on our course's Canvas website. It is your responsibility to ensure that you are following the most recent version of the syllabus.

If you have any questions, please contact the instructors as soon as possible (preferably at the beginning of the course)!

COURSE SCHEDULE

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

	(Tues 5-6) Topic	(Thurs 6) Topic	Landmarks
Week 1	No class	Course overview; Introduction to EIDs	
Week 2	Basic Disease Models; Plague	Plague	
Week 3	Tuberculosis	Discussion: Plague & TB	Choose Critique topic
Week 4	Watch <i>Contagion</i>	No class	
Week 5	Discussion: <i>Contagion</i> Smallpox (and the other poxes)	Smallpox (and the other poxes)	Choose topic for final paper
Week 6	Discussion: Smallpox Exam review	First test	Test 1
Week 7	Vaccination	Discussion: Vaccinations	Critique Due
Week 8	Coronaviruses	Discussion: coronaviruses	
Week 9	Flu, old and new	Discussion: Flu	Paper Outline due
Week 10	Wildlife EIDs	Discussion: Wildlife EIDs	
Week 11	HIV/AIDS	Second test	Test 2
Week 12	VBD I: Malaria	Discussion: Malaria	Paper draft due
Week 13	VBD II: Yellow Fever, Dengue, Zika	Discussion: flaviviruses	
Week 14	VBD III: Chagas & African Sleeping Sickness	No class – Thanksgiving Break	Peer reviews due
Week 15	VBD IV: Lyme and other tick-borne diseases	Discussion: Tick borne diseases	
Week 16	Exam Review	No Class: Reading Days	Final paper due
Comprehensive Final Exam: Thursday, December 14th 3-5pm (Weil 273)			