

UMB CIPP650: Climate Change, Health, and Society - Spring 25

Course Information

Course Number & Title: CIPP650, Climate Change, Health, and Society

Start & End Dates: Wednesdays, January 22 to May 7, 2024, 1-3 pm and Zoom discussions, TBD

Class meetings: HSHSL 331 in-person, Section 1, CRN 23273

Asynchronous or on Zoom: Section 2, CRN 23517

Credit Hours: 2 or 3 credit hours (to be selected on SURFS)

Blackboard site: [CIPP650 Spring 2024 Link](#); **Zoom link:** [Register here](#);

Course Teams site: [CIPP650 Spring 2025 | General | Microsoft Teams](#);

Course website: <https://www.medschool.umaryland.edu/climate-change/cipp650-course/>

Instructor Information

Director: Shiladitya DasSarma (sdassarma@som.umaryland.edu), Professor, Institute of Marine and Environmental Technology, Department of Microbiology and Immunology, School of Medicine

Course instructors: Shiladitya DasSarma, PhD; Timothy Canty, PhD; Kathleen Kennedy, PhD; Ellen Kohl, PhD; Janet Karanja, MD; Marianne Cloeren, MD, MPH; Matthew Laurens, MD, MPH; Florence Doo, MD; Shailvi Gupta, MD, MPH; William Piermattei, JD; Karin Russ, JD, MS, RN; Kenneth Wong, PhD

Course Overview

Description: CIPP650 examines the causes and impacts of climate change, emphasizing human health and society in Maryland, including the scientific basis for climate change, health equity, and governmental policies. Case studies are highlighted, and students work in teams to develop innovative solutions to climate change-driven environmental challenges. The course addresses issues such as extreme heat, infectious disease, air pollution, saltwater inundation, and environmental justice.

Requirements:

Students are required to attend or watch recordings of all classes, participate in live discussions either at the Wednesday class and/or at the Monday evening discussion, and do all the assigned exercises. All students must participate in a group project and propose a solution to a local or larger climate problem in the in-person May 7 class or with a Zoom recording. Students who choose the 3-credit option are required to attend the discussion section and write a 20-page paper.

Credit	Mode	Discussion section	Classroom assignments	Group project	Final paper
2	In-person/Zoom	optional	required	required	no
2	Asynchronous	required	required	required	no
3	In-person/Zoom	optional	required	required	required
3	Asynchronous	required	required	required	required

Prerequisites: Graduate or professional program student status

Learning objectives

- Build foundational knowledge in the science of climate change, including how greenhouse gas emissions promote warming of both land and sea, causing extreme weather and consequences for human health and society.
- Communicate how climate change can contribute to human diseases and societal stressors, with disproportionate impacts on economically disadvantaged, vulnerable people, communities, and countries.
- Develop familiarity with environmental laws and policies at the local, state, national, and international levels that are aimed at mitigation and adaptation to climate change.
- Embrace interprofessional teamwork for responding to climate change with a consortium of faculty from the Graduate School and professional Schools of Medicine, Nursing, Law, and Social Work.
- Successfully partner with stakeholders and representatives at the local, state, and national levels to conduct meaningful actions for addressing challenges from climate change.

Class schedule, topic, instructor, and guest/exercise:

Class	Date	Topic	Instructor	Guest/Exercise
Climate Science and Policy				
1	22-Jan	Intro to CIPP650	DasSarma	Borgerding
2	29-Jan	Fundamentals of Climate Science	Canty	Ober
3	5-Feb	Climate Science & Solutions	DasSarma	Rawson-EnROADs
4	12-Feb	Maryland Climate Policy	Kennedy	Stewart-MDE
Climate Impacts on Health and Society				
5	19-Feb	Climate Justice and Health	Kohl	DuBois-CPSR
6	26-Feb	Mental Health and Violence	Karanja	Knight-UMMC
7	5-Mar	Health Impacts of Heat & Air Pollution	Cloeren	TBA
8	12-Mar	Vector & Water-borne Infectious Diseases	Laurens	
Spring Break March 16-23, 2025				
9	26-Mar	Climate-Conscious Precision Medicine	Doo	Bierbaum
10	2-Apr	International Vulnerable Populations	Gupta	Michalopoulos
11	9-Apr	Cost of Carbon	DasSarma	Martinez
Climate Law and Advocacy				
12	16-Apr	International and National Laws	Piermattei	
13	23-Apr	State & Local Laws and Advocacy	Russ	Ferreira-Wincele CXC
14	30-Apr	Panel: Future of Climate Policy and Action	Wong	Rehr, Kelly, etc.
15	7-May	Student presentations		

Course Policies

Course Attendance

All non-asynchronous students are expected to attend in person or by Zoom for each class. In case of illness, please attend by Zoom if possible, or otherwise, watch the recorded class as soon as possible and contact the instructor for instructions on makeup work. Asynchronous students must watch class recordings and attend the 1-hour discussion section on Zoom. Students registered for 3-credit are also required to attend the discussion section on Zoom. All students are required to submit weekly assignments.

Assignments

All student should come prepared to ask a question in each class or discussion section. Written assignments provided at each class meeting should be completed within one week of the assignment and submitted on Teams. In addition, students should discuss group projects as soon as possible and a group proposal project outlining a potential response to the climate crisis on health and society is required by February 26. An oral presentation will be required in-person by May 7 or earlier as a videorecording. All assignments should be submitted on time. Late assignments will either not be accepted or may result in grade reduction at the discretion of the instructor.

Grading

Students will be graded on a standard scale of letter grades (A-F). Some programs may elect to assign pass (P=A/B/C/D) or fail (F). Each class assignment will be worth 10 points, group project proposals 40 points, and project presentations 40 points. Final papers for students taking the 3-credit option are worth 20 points. (See table below.)

	2 credits	3 credits
1. Assignments and Class Participation	120	120
2. Group Project proposal	40	40
3. Presentation	40	40
4. Paper	-	100
Total points	200	300

Technical Support

If you experience problems contact the IT Help Desk.

Academic Misconduct

The Graduate School's policy on academic integrity will be in effect. More information on the academic integrity policy, including what is deemed to be a violation of the policy, as well as the procedure for handling alleged acts of dishonesty by students, can be found at the Graduate School Catalog and Policies website.