Global Perspectives for Climate and Health



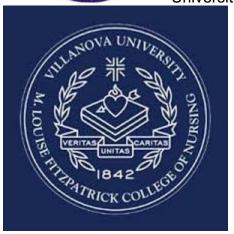
University of Eastern Finland, Kuopio, Finland



Public Health Foundation of India



University of Port Harcourt, Port Harcourt, Nigeria



Villanova University, United States of America

Course name: Global Perspectives for Climate and Health

Date/Time of Class: January 17, 2022 to April 30, 2022

Asynchronous

Three Live Seminar Discussions (via Zoom)

3 February, 3 March, and 31 March

7:00 - 8:00 AM US ET

One on-line live seminar on April 22, 2022 (via

ZOOM).

US Eastern Time 7:00-10:00 AM

Nigeria 1200-1500 Finland 1400-1700 India 1630- 1930

PREREQUISITES: None, open global health minor or graduate students.

OVERVIEW:

This interdisciplinary (medical, nursing, and public health), international course will examine the impact of climate change on human health in Finland, India, Nigeria, and the U.S. Faculty (professors) and students from different regions of the world (Finland, India, Nigeria, & US) will study climate health science; strategies of mitigation and adaptation; local, national, and international policy; and real-time ground-level climate realities from each participating nation.

OBJECTIVES:

- 1. Describe key stakeholders and historical context of global climate action.
- 2. Analyze the climate science as it relates to regional changes and projected changes in temperature, weather patterns, air and water quality, and food security.
- 3. Articulate the relationship between economic, political, social, and cultural factors that influence climate change local, national responses, and international responses.
- 4. Describe the implications of climate change on human health.
- 5. Evaluate policies, legislation and regulations that address climate change on human health in Finland, India, Nigeria & the U.S, and the impact of these policies on international community.
- 6. Develop plans to address climate change strategies for selected groups that include social, economic, geographic, lifespan, occupational, and gender vulnerabilities.
- 7. Analyze programs that mitigate, adapt, and build resilience to the health impacts of climate change at the local, regional, national, and global levels.

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EVALUTION CRITERIA:

Class participation & preparation (YellowDig)	30%
Pre & Post Test (Pass/Fail)	10%
Climate Science test (Past/Fail)	10%
Reflection of climate, health, and culture	20%
Group class seminar presentation	30%

Class participation (30%):

You are expected to be informed and participate in on-line class discussions. To prepare for each class students are expected to complete required readings, view videos, and examine the current reputable media (newspapers, radio, web sources). Your YellowDig responses are quantified based on number of words you write. Course faculty expect the posts contain the following qualities:

- Primary posts are completed by Wednesday.
- Questions/comments and/or responses to fellow students' posts are completed by Saturday.
- Posts are thoughtful, substantive, and incorporate module content and required readings/lectures/videos.
- Posts make connections to other content, readings, previous modules, and real-life situations.

- Posts build on other responses and contribute to the online learning environment.
- Comments are logically reasoned and substantiated.
- Posts are grammatically correct and proofread for spelling errors.
- Posts offers new perspectives, helpful suggestions and or raises questions and /or answers them to promote discussion.
- Posts reflect additional review of scholarly resources.
- Posts are respectful of different thoughts and ideas. If something is not understood that is posted you are encouraged to ask clarifying questions: "Can you explain what you mean by..."

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Pre & Post-test (Pass/Fail) (10%)

There will be a pre-test at the beginning of the course and a post-test at the end of the course to determine your overall learning in the course. You must complete the pre-test at the beginning of the course **and** the post-test at the end of the course to earn the overall grade for this evaluation criteria.

Climate science test (Past/Fail) (10%).

After the climate science unit, there will be a multiple-choice exam to determine basic competence in climate science. You must earn an 80% by week 4. You may retake the climate science test up to three times.

Reflection of climate, health, and culture essay (20%).

We are fortunate to learn about climate change and health with students from Finland, India, Nigeria, and the U.S. From your class discussions and group work, answer the question: How does the economic, political, and cultural status of a country/region influence climate and health responses? Your response should be 4-5 pages typed, double spaced with citations to support your answer and consider the essay question from the perspective of one developing and one developed country that is discussed in this class (Finland, India, Nigeria, and the U.S.).

Group class seminar presentation (30%)

This is a culminating assignment. Within your assigned student group, develop a policy or program recommendation to a national or international organization to improve, support, or protect the health of the population from a particular climate impact (i.e. food sustainability, heatwaves, health system resilience, air pollution). Your work should demonstrate the using, analysis, and integration of the current literature, science, data, and official documents. You may use whatever media to make your presentation that your group feels would best make the point and convince the identified organization (i.e. PowerPoint, video, brochures,.....) to make the policy change or program implementation.

Selected On-Line Sources

International

Intergovernmental Panel on Climate Change https://www.ipcc.ch/

International Council of Nurses Statement on Climate Change:

https://www.icn.ch/sites/default/files/inline-

files/ICN%20PS%20Nurses%252c%20climate%20change%20and%20health%20FINAL%20.pdf

Global Consortium for Climate and Health Education

https://www.mailman.columbia.edu/research/global-consortium-climate-and-health-education

Health Care Without Harm https://noharm.org/

Lancet Countdown: http://www.lancetcountdown.org/

UNICEF (climate change) https://www.unicef.org/topics/climate-change

World Bank (climate change) https://www.worldbank.org/en/topic/climatechange

World Health Organization www.who.int

India

National Health Portal - https://www.nhp.gov.in/health-and-climate-change_pg
National Action Plan on Climate Change India - Ministry of Environment, Forests
and Climate Change - http://moef.gov.in/wp-

content/uploads/2018/07/CC ghosh.pdf

National Action Plan for Climate Change and Human Health-Ministry of health and Family Welfare -

https://ncdc.gov.in/WriteReadData/I892s/27505481411548674558.pdf

Climate Change: perspectives from India-UNDP-

https://www.undp.org/content/dam/india/docs/undp_climate_change.pdf

https://www.adaptation-undp.org/explore/india

Assessment of Climate Change over the Indian region -

https://www.springer.com/qp/book/9789811543265

Lancet Countdown 2018 India Policy Brief -

https://www.ceh.org.in/publication/lancet-countdown-2018-report-briefing-for-

indian-policy-makers /Lancet Countdown 2018 India Policy Brief -

https://www.ceh.org.in/publication/the-lancet-countdown-on-health-and-climate-change-2019-policy-brief-for-india/

India Meteorological Department (IMD) - https://mausam.imd.gov.in/
Integrated Disease Surveillance Programme (IDSP) - https://idsp.nic.in/

Nigeria

Department of Climate Change, Nigeria https://climatechange.gov.ng/ Environmental Health Practice, Nigeria https://ehorecon.gov.ng/Environmental-Health-Practice

Federal Ministry of Health, Nigeria https://fmohconnect.gov.ng/

Finland

https://www.climatechangepost.com/finland/climate-change/ Climate Adapt Finland: https://climate-adapt.eea.europa.eu/countries-regions/countries/finland Finland's National Climate Change Adaptation Plan 2022:

http://www.lse.ac.uk/GranthamInstitute/wp-content/uploads/laws/8196.pdf

Finnish Government: Finnish Government Appoints New Climate Panel (2019) https://valtioneuvosto.fi/en/article/-/asset_publisher/valtioneuvosto-nimitti-uuden-

ilmastopaneelin-puheenjohtajana-jatkaa-markku-ollikainen

Finnish Meteorological Institute: https://en.ilmatieteenlaitos.fi/climate

United States

Alliance of Nurses for Healthy Environments (Climate Change)

https://envirn.org/climate-change/

Center for Disease Control and Protection (Climate & Health Program):

https://www.cdc.gov/nceh/information/climate and health.htm

Environmental Protection Agency (Climate Change Indicators)

https://www.epa.gov/climate-indicators

Healthy People 2030 (environmental health)

https://health.gov/healthypeople/objectives-and-data/browse-

objectives/environmental-health

Global Change: National Climate Assessment (US)

https://www.globalchange.gov/nca4

Lancet Countdown Policy Brief US http://www.lancetcountdownus.org/wp-

content/uploads/2020/12/FINAL-2020_12_02_Lancet-Countdown-Policy-

<u>Document-USA-ENG.pdf?hsCtaTracking=3d902c23-c855-441f-ab5d-</u>

61f4f76a2ea1%7C6d90df30-4bf7-42f3-a282-f61d5292a03e

Medical Society Consortium on Climate & Health

https://medsocietiesforclimatehealth.org/

Useful website:

Time and Date Converter

https://www.timeanddate.com/worldclock/converter.html

Weekly Schedule Spring 2022 Each unit opens on Monday and closes on Sunday

	opens on Monday and closes o		1
Module	Topic	Assigned faculty	Homework/Assignments
1	Introduction to the course	Ruth (VU)	Complete the pre-test by
Jan 17			30 January
2	Climate Science	Richa (PHFI)	
Jan 24	Historical Context		
3	Examining & Analyzing the	Richa (PHFI)	Complete the climate
Jan 31	Climate data		science test by 14 Feb
			Live Session 3 Feb
4	Climate vulnerabilities (people,	Ruth (VU)	Live
Feb 7	systems) Migration of		
	people/conflict		
5	Extreme of temperatures: heat	Dr. Ambarish Dutta -	
Feb 14	& cold	heat (PHFI)	
		Ruth - cold (VU)	
6	Air Quality and Climate	Enembe (UC)	
Feb 21	Change		
7	Mental Health	Lauri Kuosmanen	Live Session 3 March
Feb 28		(UEF)	
8	Non-Communicable Diseases	Enembe (UC)	
March 7	(NCDs)		
9	Infectious disease, zoonotic	Enembe (UC)	Reflection on Climate,
March	diseases, COVID-19		Health, & Culture due by 28
14			March.
10	Food sustainability Flooding &	Ruth (VU)	Easter Break begins April 1
March	Droughts		for Villanova Students (Ruth
21			post by March 27)
11	Health Systems preparedness,	Poornima Prabhakaran	Live Session 31 March
March	response, resilience	(PHFI)	
28			
12	Public Health impact &	Poornima Prabhakaran	
April 4	response	(PHFI)	
13	Trends in Climate Science and	Richa (PHFI)	Complete the post-test by 25
April 11	Response	,	April.
14	Student conferencing	Ruth	We will plan on Thursday
April 18			April 21 for the live session.
			3 hours.
			US Eastern Time 7:00-10:00
			AM
			Nigeria 1200-1500
			Finland 1400-1700
			India 1630- 1930

The course instructor reserves the right to make changes in the topical outline as needed. Each module is one week.