

Planetary Health

(Code: 31-3308 1st year 2units)
Course ID: GP-b3308L

1. Instructor(s)

Keiko Nakamura, Professor, Department of Global Health Entrepreneurship
Kaoruko Seino, Junior Associate Professor, Department of Global Health Entrepreneurship
Hisashi Ogawa, Visiting Professor TMDU,
Kayoko Yamamoto, Professor, The University of Electro-Communications
Osamu Kunii, CEO, Global Health Innovative Technology Fund, Visiting Professor TMDU
Saori Kashima, The IDEC Institute, Associate Professor, Hiroshima University
Masahiro Hashizume, Professor, The University of Tokyo
Ayano Takeuchi, Associate Professor, Toho University

2. Classroom/Lab

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3. Course Purpose and Outline

Course Purpose

This course explores the global human health impacts of natural system transformation, including climate systems, land cover, biogeochemical cycles and biodiversity. Participants will discuss ecological determinants of human health, health consequences of certain types of environmental change, and how humanity manages the Earth's natural systems, in the context of planetary health.

Outline

This course consists of series lectures, team projects and group presentations. Working on the team projects on "environmental change and health, participants will gain knowledge and skills in access to interdisciplinary information, data analysis, leadership, teamwork, and developing plans with new insights.

4. Course Objective(s)

At the end of the course, participants will be able to:

- 1) Describe the concepts of planetary health and research methodologies
- 2) Identify health impacts of environmental changes
- 3) Describe the roles of international organizations to promote planetary health
- 4) Describe disaster preparedness and response to mitigate health impacts of a disrupted environment
- 5) Summarize and present original articles on planetary health
- 6) Propose potential measures to mitigate or adapt environmental changes

5. Format

Lectures, team projects

6. Course Description and Timetable

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7 . Grading System

Grades are based on attendance at lectures, performances in team projects and presentations, and levels of attitude, skills and knowledge.

8 . Prerequisite Reading

To be announced before the classes.

9 . Reference Materials

To be announced before or during individual classes, when relevant.

1 0 . Important Course Requirements

For students not in the MPH course, instructor's permission is required before registering for the course. Students are expected to attend all sessions and participate in class discussions and group activities. Students will work in the same group allocated Day 1 to deliver group discussion on the last day of the course.

1 1 . Availability in English

All classes are taught in English.

1 2 . Office hours

Please contact Prof. Keiko Nakamura at nakamura.ith@tmd.ac.jp

1 3 . Note(s) to students

None

Schedule

No	Day	Time	Topics / Venue	Instructor
1	April 22, 2024	13:00-14:30	Infectious Diseases and Planetary Health (Lecture via Zoom, G-Lab M&D Tower 8F)	Osamu Kunii
2	April 24, 2024	8:50-10:20	Introduction to Planetary Health (Lecture, G-Lab M&D Tower 8F)	Keiko Nakamura
3		10:30-12:00	Environmental changes and health 1 (Group Work, G-Lab M&D Tower 8F)	Kaoruko Seino
4		13:00-14:30	Global environmental changes and health (Lecture via Zoom, G-Lab M&D Tower 8F)	Hisashi Ogawa Keiko Nakamura
5		14:40-16:10	Citizens Convention for Climate (Lecture via Zoom, G-Lab M&D Tower 8F)	Ayano Takeuchi
6	April 25, 2024	8:50-10:20	Environmental changes and health 2 (Group Work, G-Lab M&D Tower 8F)	Kaoruko Seino
7		10:30-12:00	Utilization of ICT for Disaster Resilience (Lecture, G-Lab M&D Tower 8F)	Kayoko Yamamoto
8		13:00-14:30	Planetary epidemiology (Lecture, G-Lab M&D Tower 8F)	Masahiro Hashizume
9		14:40-16:10	Environmental changes and health 3 (Group Work, G-Lab M&D Tower 8F)	Kaoruko Seino
10	April 26, 2024	10:30-12:00	Environmental changes and health 4 (Group Work, G-Lab M&D Tower 8F)	Kaoruko Seino
11		13:00-14:30	Planetary Health and healthy aging (Lecture, G-Lab M&D Tower 8F)	Saori Kashima
12		14:40-16:10	Environmental changes and health 5 (Group Work, G-Lab M&D Tower 8F)	Hisashi Ogawa Saori Kashima Kaoruko Seino
13	April 30, 2024	8:50-10:20	Environmental changes and health 6 (Group Work Presentation,G-Lab M&D Tower 8F)	Keiko Nakamura Hisashi Ogawa Saori Kashima Kaoruko Seino
14		10:30-12:00		
15		13:00-14:30	Review, Recap (Review of the group work presentation and course recap) (G-Lab M&D Tower 8F)	Keiko Nakamura
16		14:40-16:10		Keiko Nakamura