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| Lecture No | 031937 | | | | | |
| Subject title | Environmental Planetary Health | | | Subject ID | GP—b3316—L | |
| Instructors | 那波 伸敏, 西村 久明, 藤原 武男[NAWA Nobutoshi, NISHIMURA Hisaaki, FUJIWARA Takeo] | | | | | |
| Semester | Spring 2025 | Level | 1st year | Units | 2 | |
| Course by the instructor with practical experiences | | | | | | |
| <p>Instructor(s):</p> <p>Nobutoshi Nawa, Associate Professor, Department of Public Health</p> <p>Hisaaki Nishimura, Assistant Professor, Department of Public Health</p> <p>Takeo Fujiwara, Professor, Department of Public Health</p> <p>Brian Schwartz, Professor, Department of Environmental Health and Engineering, Johns Hopkins Bloomberg School of Public Health</p> <p>Availability in English: All classes are taught in English.</p> <p>Key word: Global Health</p> | | | | | | |
| Lecture place | | | | | | |
| Refer to the course schedule | | | | | | |
| Course Purpose and Outline | | | | | | |
| <p>Course Purpose:</p> <p>This course introduces current topics in environmental and planetary health issues, scientific understanding of their causes, and possible future approaches toward control of the major environmental health problems.</p> <p>Outline:</p> <p>Throughout the course we will review and discuss topics including exposure assessment, environmental epidemiology, risk assessment/management, planetary health, climate change, air pollution, urban planning, biodiversity, and systems science.</p> | | | | | | |
| Course Objective(s) | | | | | | |
| <p>By the end of this course, students will be able to:</p> <p>a) Define environmental exposures important in public health and describe how they may cause illness or promote health.</p> <p>b) Describe specific factors (e.g., meteorological conditions, air pollution, urban environment, biodiversity, etc.) that influence the likelihood of exposure and the risk of health outcomes.</p> <p>c) Explain how to identify environmental hazards, assess effects of hazards on health, control hazards, and monitor the control efforts.</p> | | | | | | |
| Lecture plan | | | | | | |
| No | Date | Time | Room | Lecture theme | Staff | Learning objectives* Learning methods* Instructions |
| 1-2 | 5/12 | 08:50-12:15 | G-Lab | Lecture: Global environmental change (1) | FUJIWARA Takeo, Brian S. Schwartz | |
| 3 | 5/12 | 13:30-15:00 | G-Lab | Lecture: Introduction to environmental health and guidance for group activity | NISHIMURA Hisaaki | |
| 4 | 5/12 | 15:25-16:55 | G-Lab | Case and group activity: Preparation for the presentation | NAWA Nobutoshi, FUJIWARA Takeo, NISHIMURA Hisaaki | |
| 5-6 | 5/13 | 08:50-12:15 | G-Lab | Lecture: Global environmental change (2) | FUJIWARA Takeo, Brian S. Schwartz | |
| 7-8 | 5/13 | 13:30-16:55 | G-Lab | Case and group activity: Preparation for the presentation | NAWA Nobutoshi, FUJIWARA Takeo, NISHIMURA Hisaaki | |
| 9 | 5/15 | 08:50-10:20 | G-Lab | Lecture: Built environment and health | FUJIWARA Takeo, Brian S. Schwartz | Brian S. Schwartz |

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| 10 | 5/15 | 10:45–12:15 | G-Lab | Lecture: Built environment and health responses | FUJIWARA Takeo, Brian S. Schwartz | |
| 11–12 | 5/15 | 13:30–16:55 | G-Lab | Case and group activity: Preparation for the presentation | NAWA Nobutoshi, FUJIWARA Takeo, NISHIMURA Hisaaki | |
| 13 | 5/16 | 08:50–10:20 | G-Lab | Lecture: Perfluoroalkyl and Polyfluoroalkyl Substances | FUJIWARA Takeo, Brian S. Schwartz | |
| 14 | 5/16 | 10:45–12:15 | G-Lab | Lecture: Global plastic challenges | FUJIWARA Takeo, Brian S. Schwartz | |
| 15–16 | 5/16 | 13:30–16:55 | G-Lab | Case and group activity: Presentation | NAWA Nobutoshi, FUJIWARA Takeo, NISHIMURA Hisaaki | |

Lecture Style

This course will consist of lectures and case-based class activities. Students will be required to write a final report.

Course Outline

Refer to the course schedule

Grading System

Grades will be based on the following elements:

Participation 20%

Final presentation (Planning countermeasures against air pollution in Kyrgyz) 80%

Prerequisite Reading

Reading materials will be available online at the course webpage. Students are expected to have worked through the materials before attending the corresponding class.

Module Unit Judgment

2 units

Reference Materials

Below is a suggestion for a book that may be useful for those who want to read a standard textbook.

Frumkin H, editor. Environmental health: from global to local. San Francisco: Jossey-Bass; 2016.

Important Course Requirements

For students not in the MPH course, instructor's permission is required before registering to the course. Also, students are required to have TOEFL iBT with a minimum score of 80 or IELTS with a minimum score of 6.5. Please submit an email when you receive permission through the following Forms. <https://forms.office.com/r/njk8XDjuvL>

Email

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