CIEE Berlin, Germany

Course title: Global Health and Emerging Diseases
Course code: (GI) PUBH 3010 BRGE
Programs offering course: Global Architecture and Design, Semester Global Internship, Berlin Open Campus Block
Open Campus Track: Global and Community Health
Language of instruction: English
U.S. semester credits: 3.00
Contact hours: 45.00
Term: Spring Block I 2021

Course Description

This course is oriented to analyze the current situation of global health and emerging diseases as priority topics that affect population health. Focusing on a global health scenario, the course will deal with the complexities of achieving global coordination, which is needed between multiple organizations to achieve improvements in the respective fields. Three related areas determine global health action: the socioeconomic situation, security, and public health. These issues play out against a background of demographic change, economic development, and urbanization. Infectious diseases remain critical factors, but are no longer the major cause of global illness and death. A global geopolitical and environmental scenario needs to identify how major threats to health have changed in order to devise ways to confront them. Undoubtedly, poverty and social inequality constitute the greatest challenges in addressing health problems at the population level. By learning about different local realities, theoretical frameworks, and specific sets of problems, the class will facilitate a better understanding of those approaches and global health topics.

Learning Objectives

By completing this course, students will:

- Evaluate the complexity of the social and environmental settings that contribute to the emergence of specific diseases.
- Apply indicators to characterize population health and the relation with diseases risk.
- Understand the current debates regarding global health scenarios, public policies and political decisions related to the control of emerging diseases.
- Link those public policies and political decisions to debates about economic asymmetries and cultural differences between the global north and the global south.

Course Prerequisites

Students should have completed a level 2000 class in health studies and/or health issues and/or zoonosis prior to taking this course.

Methods of Instruction

The course will be taught using lectures, seminars, case study projects, and group presentations. Analyzing data, interpreting them and preparing them for presentation, which plays an important role in this course, will typically be done in groups. Case studies and scenarios on individual countries in particular will be facilitated by the instructor. Debates in the class forum will focus on understanding complex concepts and theories related to public and global health. Students will also do site visits and interviews. Invited guest speakers will add to the learning experiences of the class.

Assessment and Final Grade

1. Weekly Report (4) 25%
2. Comparative Case Study 20%
3. Critical Discussion 15%
Course Requirements

Weekly Report (4)

At the end weeks 1-4, every student will submit a 500-word synthesis reporting on highlights, main contributions and learning points during the week. These will be uploaded to the online CANVAS forum. Mandatory readings must be included in each report. The facilitator will provide the students with guidelines in the first week of the course.

Comparative Case Study

Students will overview a significant ecosystem mediated health issue from the European continent and then compare the effects of such impacts in the host environment country. The overview will also include a summation of the current political debates and directions in each country regarding this issue. The paper will be 1500-words exactly and draw on the mandatory course readings and at least FOUR other relevant academic papers. The assessment will be graded on a student’s ability to elaborate on the effects, the political debates and compare both the health effects, the relation to population health, the diseases risk and attempts to address these effects at a national and global level.

Critical Discussion

A 1200-word discussion paper about the underlying issues for addressing a key emerging global disease in the student’s home country will be required. The structure of the paper will have a common format (template) that will be provided during the course. The specific topics will be discussed and selected with the facilitator prior to completion. The discussion will be graded on a student’s ability for high leveled comprehension and critical thinking about the issue in relation to the effect of disease and the influence of external economic and political debates and directives in addressing the disease effects. The individual topic can be part of the oral presentation assessment undertaken in the final week of the course.

Presentation

Students will be required to prepare a group (3-4 students) presentation based on a topic covered by the class. This presentation will be part of a group session with the participation of the students and discussed with the facilitator prior to presenting.

Participation

Participation is valued as meaningful contribution in the digital and tangible classroom, utilizing the resources and materials presented to students as part of the course. Meaningful contribution requires students to be prepared in advance of each class session and to have regular attendance. Students must clearly demonstrate they have engaged with the materials as directed, for example, through classroom discussions, online discussion boards, peer-to-peer feedback (after presentations), interaction with guest speakers, and attentiveness on co-curricular and outside-of-classroom activities.

Attendance

Regular class attendance is required throughout the program, and all absences will result in a lower participation grade for any affected CIEE course. Due to the intensive schedules for Open Campus and Short Term programs, absences that constitute more than 10% of the total course will result in a written warning.

Students who transfer from one CIEE class to another during the add/drop period will not be considered absent from the first session(s) of their new class, provided they were marked present for the first session(s) of their original class. Otherwise, the absence(s) from the original class carry over to the new class and count against the grade in that class.

For CIEE classes, excessively tardy (over 15 minutes late) students must be marked absent.

Attendance policies also apply to any required co-curricular class excursion or event, as well as to any required field placement. Students may not miss placement/work hours at an internship or service learning site unless approved in advance by the Academic Director and placement supervisor. All students must complete all of the requisite 100 minimum work hours on site at the internship or service learning placement to be eligible for academic credit.
Students who miss class for personal travel, including unforeseen delays that arise as a result of personal travel, will be marked as absent. No make-up or re-sit opportunity will be provided.

Attendance policies also apply to any required class excursion, with the exception that some class excursions cannot accommodate any tardiness, and students risk being marked as absent if they fail to be present at the appointed time.

Absences for classes will lead to the following penalties:

<table>
<thead>
<tr>
<th>Percentage of Total Course Hours Missed</th>
<th>Minimum Penalty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 10%</td>
<td>Participation graded as per class requirements</td>
</tr>
<tr>
<td>10 – 20%</td>
<td>Participation graded as per class requirements; grade penalty &amp; written warning</td>
</tr>
<tr>
<td>More than 20%</td>
<td>Automatic course failure, and possible expulsion</td>
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</tbody>
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N.B. Course schedule is subject to change due to study tours, excursions, or local holidays. Final schedules will be included in the final syllabus provided to students on site.

**Weekly Schedule**

**Week 1**

Class: 1.0  
**Global Health and Its Impacts on Human Wellbeing**

During this class students will be introduced to major global health challenges, programs and policies. The principal conceptual frameworks on which global health research and strategies are based will be introduced to the students.

Class: 2.0  
**Basic Determinants of Emerging Infectious Diseases**

In this class students will analyze the determinants and drivers of infectious diseases. For this, students will analyze and interpret specific data subsequently to be presented to the rest of the class. Students are asked to come to class with a personal computers/tablet/smartphone with internet access for this session.

**Reading:**


**Due Date for Submission of the Weekly Report**

**Week 2**

Class: 3.0  
**Managing the Health Effects of Environmental Changes**

This class will help the students to understand the most important links among environmental changes and its effects on the living conditions of the populations related to how they can affect their wellbeing and health.

**Reading:**

Koplan H, Bond T, Merson M, Reddy K, Rodriguez M, Sewankambo N,


Class: 4.0  
**Ecosystem-Mediated Health Effects by Environmental Changes**

In this class students will be introduced to the analysis of how certain social and environmental
settings contribute to the emergence of specific diseases. For this purpose, students will analyze and discuss data based on guided readings that expose them to the complexity of establishing such correlations.

**Reading:**


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**Class: 5.0  Analysing the Data: Impacts**

Based on the data previously collected and the information provided by the instructor, students will work on case studies. After they finish they will present it to discuss in class their results and findings.

**Reading:**


**Due Date for Submission of the Weekly Report**

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**Week 3**

**Class: 6.0  Principal Aspects of Mobility and Migration in a Global World**

In this module students will explore the relationship between migration and health as a complex weft of the associations between population growth and environmental effect which have large implications for global health.

**Reading:**


**Class: 7.0  Migration and Health in the Host Country**

This class will be divided into two parts:

**Part One:** by means of the presentation of a guest speaker (TBA), students will be introduced to the differences in health outcomes between migrants and residents born in the host country in order to understand the specific issues that affect migrant’s health in the host country and to analyze the ‘healthy migrant’ effect. The guest speaker will introduce students to the differences in health outcomes between migrants and residents born in the host country and the key health issues faced by the migrant population.

**Part Two:** each group of students will discuss with the instructor the structure of their research topics, based on the selected topic, sources needed and research approach.

**Reading:**


**Class: 8.0  Communicable Diseases: Life Conditions Matter**

In this class students will approach the problem of the communicable diseases and the association that primarily linked them with poverty. Therefore, the class will cover the analysis of topics like migration based on war, conflict or economic crisis that certainly increase the risks of communicable diseases, particularly measles, and food- and waterborne diseases, such as tuberculosis (TB), HIV/AIDS and others.
Reading:
diseases: the impact of migration’. Clinical Infectious Diseases. (38)12, pp. 1742-1748.

Due Date for Submission of the Weekly Report

Week 4
Class: 9.0 Emerging Infectious Diseases and One Health

Most human infectious diseases, especially recently emerging pathogens, originate from animals,
and ongoing disease transmission from animals to people presents a significant global health
burden.

Reading:
Risks of Infectious Diseases at the Animal–Human–Ecosystems Interface. Paper presented at
International Pledging Conference on Avian and Human Pandemic Influenza. Beijing, China.

Class: 10.0 Emerging Infectious Diseases and its Representation in Cinematography

The films “Outbreak” and “Contagion” will be discussed and analyze the theme of both films in
relation to the global health and the distribution of the emerging infectious diseases. Students will
be divided into two groups to present the arguments of the debate.

Reading:
Kreuder-Johnson et al. (2015). Spillover and pandemic properties of zoonotic viruses with high host
plasticity. Scientific Reports 5, p. 14830.

Class: 11.0 Site Visit

Students will visit a neighborhood to observe and collect environmental, social and demographic
data to analyze how some of the diseases covered by the class had impact in the local context.

Readings:
diseases and pandemic potential: status quo and reducing risk of global spread’. The Lancet
Infectious Diseases. (14)10, pp. 1001–1010.

Due Date for Submission of the Weekly Report

Week 5
Class: 12.0 Emerging Infectious Diseases by Arbovirus (Part 1)

This class will focus on the principal vector-borne emerging infectious diseases and their impact on
global health. To do so students will have to analyzed specific data and the instructor will provide
them with reading guidelines.

Reading:

Class: 13.0 Emerging Infectious Diseases by Arbovirus (Part 2)

This class will focus on the principal vector-borne emerging infectious diseases and their impact on
global health. To do so students will have analyzed specific data and the instructor will provide
them with reading guidelines.
Readings:


Class: 14.0 Emerging Infectious Diseases by Bats and Rodents

This class will focus on the principal emerging infectious diseases transmitted by bats and rodents and their impact on global health. To do so students will have analyzed specific data and the instructor will provide them with reading guidelines to facilitate group debates in class. Each group will be asked to prepare some of the articles listed below to do so.

Readings:


Due Date for Submission of the Critical Reflection

Week 6
Class: 15.0 Global Health + Emerging Infectious Diseases: The Political and Economic Agenda

In this class, students will explore the relationship and the importance of crucial universal issues—such as protecting health and climate and the political decisions and economics supports for achieve the better solutions. Although these commitments are welcome proof of political will, actions (not advocacy) must now follow. A major challenge in the governance of research funding is agenda-setting, given that the priorities of funding bodies largely dictate what health issues and diseases are studied. The challenge of agenda-setting is a consequence of a larger phenomenon in global health financing. The reality might yet inspire the development of a global health ethic that all of society eventually embraces.

Class: 16.0 Shared Knowledge

Group research presentation and open debate

Reading:

Due Date for Submission of the Presentation Assessment

Course Materials
Readings


