

# Health and environment with special focus on climate and sustainability

## Course organizers

Kristoffer Mattisson [kristoffer.mattisson@med.lu.se](mailto:kristoffer.mattisson@med.lu.se) (contact person)

## Examiner

Professor Karin Broberg

## Target Group

Preliminary doctoral students and post-docs with an interest in understanding associations between the environment and health and how these associations change with a changing climate. Doctoral students at Lund University Agenda 2030 research school will be giving first priority. If spots are available, masters students are also free to take the course

## Time

Autumn 2023: Fulltime Week 35-39 (28 August to 26 September). In order to facilitate the participants who have other commitments, joint elements such as lectures and group exercises will preferably take place three days a week.

## Application

Open on the 15<sup>th</sup> of March and closes on the 17<sup>th</sup> of April.

## Location

The course will be given digitally in Zoom

7,5 hp (full-time)

## Number of participants

20

## Language

English

## Prerequisite

The course aims at a broad target group and does not require any specific prerequisites, other than being accepted as a doctoral or master student.

## Aim

This course, utilizing a multidisciplinary approach, aims to deliver knowledge and enhance understanding within the field of environmental epidemiology, with a focus on environmental health and relevant Sustainable Development Goals (SDGs).

## Content

The course contains the following elements:

1) Introduction to:

- Environmental medicine and environmental epidemiology
- Climatology, climate modeling and climate change

2) Focus on themes concerning different health aspects, environment and climate

- Heat and cold
- Air
- Water
- The built environment
- Lifestyle and diet

In addition to an in-depth theme, lectures will be given that connect with the overall purpose of the course.

The course starts with introductory lectures to provide the opportunity for course participants to create good conditions to immerse themselves in health aspects and the environment. During the course, lectures will be given as well as individual assignments and group exercises within different themes. The in-depth work is introduced early, which will run throughout the course. The in-depth work is carried out individually but time will be allocated for individual feedback on project idea and projects from other course participants and teachers. During the final week, the in-depth work will be presented. Prior to this, an opponent is appointed who, in connection with the presentation of the work, leads a discussion on this.

**Course structure**

This is a full-time (100%) course taking place between weeks 35-39 (August 28, 2023 to September 26, 2020). The course structure will consist of a mixture of group exercises, individual assignments, and lectures. To aid those students who have additional commitments, joint elements of the course, such as group exercises and lectures, will be limited to three days a week whenever possible. Parallel to these scheduled components, individual project work will be ongoing throughout the course to facilitate more in depth learning within a specific environmental health topic chosen by the student.

**Examination**

In-Depth project. In order to pass the course, in addition to passing the in-depth work, active participation in all of the course's exercises and group work is required.

**Literature**

Articles as well as digital teaching material will be distributed before the start of the course and continuously during the course.