

# Pandemiology: Epidemic Diseases that Shaped the World, and the Methods Used to Study Them

## About the course

This course will be of interest to students in medicine, global health, environmental sciences, social sciences, demography, history – any student with a keen interest in human health and epidemic diseases and would like to become familiar with the variety of methodologies used to explore data and generate evidence.

### *Aim of the course:*

Students will gain understanding of the key questions and interdisciplinary methods used in the emerging field of “pandemiology”.

The course will provide foundational knowledge of important pandemics/epidemics and key, analytical methods through case studies. This will build a comprehensive understanding of the forces that shape pandemic trajectories from origin to endgame, placed in historical and societal context.

### *Please note that the course takes place at:*

Statens Serum Institut (SSI) – PandemiX Center of Excellence

Artillerivej 5

2300 Copenhagen S

Denmark

### *Meeting room at SSI: Jernesalen*

subject            ph.d.

Teaching  
language            English

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host                Doctoral School of Science and Environment

Registration        Via email to Michelle Kramer Hendriksen ([michellekh@ruc.dk](mailto:michellekh@ruc.dk)) no later than the 7th of October 2026, giving:

1) Name and affiliation

Course begins    09-11-2026

Course ends        13-11-2026

External  
lecturer            Infectious Disease Experts from Statens Serum Institut (SSI) and other renowned academic and government-based researchers in cooperation with the Infectious Disease Experts from PandemiX Center of Excellence

prerequisites	Basic statistics, epidemiology, demography, global health, life sciences such as: biology, genetics or environment
type of course	<p>This course will be conducted over 5 consecutive days. Lectures will be held in-person for 2 sessions per day, morning and afternoon. No online participation is possible. The specific content of the course (schedule) will be made available by 30 June, 2026.</p> <p>Expected preparation for the course is 50 hours, including required readings prior to the start of lectures (up to 20 papers). These will be made available online by 9 October, 2026</p>
Course days	5 course days: 9 to 13 November 2026
Participation requirements for the obtaining of ECTS points	Will be based on active participation in the course and exercises, and a written group report to be submitted by December 14, 2026. There will be 3-5 students in each group, depending on total number of participants
ECTS	5
Content	<p>Through case studies, students will understand the history, signatures, burden and control of major epidemics and pandemics. Students will become familiar with the scientific methods used to study them; these include outbreak investigation, registry-based research, dynamic models, statistical models, phylogenetics, and historical research, among others.</p> <p>Lectures and case studies will be undertaken by experts from PandemiX Center of Excellence and Statens Serum Institute (SSI), and other renowned academic and government-based researchers, as relevant. Case studies will be chosen from: mpox, smallpox, pertussis, measles, influenza, vector-borne diseases, HIV, tuberculosis, and COVID-19</p>
fee	Free of charge – including free catering
Maximum number of participants	30 (Minimum number of participants: 5)
reading list	Up to 20 papers that will be made available online by 9 October, 2026
Responsible For The Activity	Lone Simonsen ( lonesimo@ruc.dk ) Sangeeta Mookherji ( sangeetam@ruc.dk )
Teacher	Lone Simonsen ( lonesimo@ruc.dk ) Sangeeta Mookherji ( sangeetam@ruc.dk )