

# FIVE-DAY SPRING SCHOOL

## INFECTIOUS DISEASE EPIDEMIOLOGY

02.03.2026 - 06.03.2026  
MÜNSTER

### COURSE SCOPE

Infectious diseases remain a leading cause of morbidity and mortality worldwide. New pathogens continue to emerge causing unforeseen outbreaks leading to events like the influenza pandemic in 2009, the Zika epidemic in 2016, and the SARS-CoV-2 pandemic. Epidemiology provides central tools for the assessment and response to these health threats in populations. This course introduces the aims and scope of infectious diseases epidemiology through lectures and interactive hands-on exercises.

We will discuss the key concepts of pathogen transmission dynamics, infectious disease surveillance, and prevention and control strategies. Additionally, students will be introduced to dynamic mathematical modelling of infectious diseases with an emphasis on practical applications.

The course will be taught by lecturers from the University of Münster, as well as by external experts. A certificate of attendance will be issued to all participants who attend the entire course and successfully complete the coursework (2 ECTS points).

### WHO SHOULD PARTICIPATE?

The course is designed for undergraduate students as well as postgraduate students with a background in medicine, biology, biostatistics, or epidemiology and an interest in infectious diseases.

**The course is free of charge.**

### HOW TO APPLY

Fill in the application form (link below) and upload a current CV.

### COURSE OBJECTIVES

- To provide an understanding of infectious disease epidemiology concepts and methods
- To explain epidemiological characteristics of major infectious diseases
- To provide an understanding of disease surveillance, disease outbreak investigations, and the control of infectious diseases
- To give an insight into the mathematical modelling of infectious diseases

### MAIN TOPICS COVERED WILL INCLUDE

- Principles of infectious diseases and their epidemiology
- Dynamics and transmission of infectious diseases
- Infectious disease surveillance
- Infectious disease outbreaks including a simulated outbreak investigation
- Prevention and control of infectious diseases
- Introduction to mathematical modelling of infectious diseases including hands-on practicals

### WHERE WILL IT TAKE PLACE?

Institute of Epidemiology and Social Medicine, University of Münster, Domagkstr. 3, 48149 Münster

The course will be held **in presence**. Unfortunately, no online attendance will be possible.

### COURSE LANGUAGE

English

### QUESTIONS?

Send us an email at [clinepi@uni-muenster.de](mailto:clinepi@uni-muenster.de)

## WISH TO PARTICIPATE?

Fill in application form at <https://bit.ly/IDEpi2026>  
or scan the QR code

