Ulm University, Germany

33rd International Summer School of Epidemiology
10th German Collaborative Summer School in Epidemiology
at Ulm University

Institute of Epidemiology
& Medical Biometry
July 28 – August 01, 2025

The program is geared to persons with interest in the fields of epidemiology and public health. Professionals, scientists and students working in clinical medicine, epidemiology, public health, social insurance, health policy or health administration are welcome. All courses will be held in English.

Course Outline

Morning sessions (parallel):

1. Introduction to Epidemiologic Methods

Caroline A. Thompson
UNC Gillings School of Global Public Health at Chapel Hill, NC, USA

2. Introduction to G-Methods for Causal Inference

Jessie K. Edwards
UNC Gillings School of Global Public Health at Chapel Hill, NC, USA

Afternoon sessions (parallel)**:**

3. Pharmacoepidemiology

Til Stürmer
UNC Gillings School of Global Public Health at Chapel Hill, NC, USA

4. Reproductive and Perinatal Epidemiology

Tania Desrosiers
UNC Gillings School of Global Public Health at Chapel Hill, NC, USA

Participants may choose one course from the morning sessions and one course from the afternoon sessions. Participants will receive a certificate after successful completion of a course (compulsory attendance every course day).

In cooperation with the UNC Gillings School of Global Public Health at Chapel Hill, North Carolina, USA.
Supported by the German Society for Epidemiology (DGEpi) and the German Center for Child and Adolescent Health (DZKJ).

Course Descriptions

1. Introduction to Epidemiologic Methods
Instructor:
Caroline A. Thompson

This course will provide an introduction to the theory and methods of epidemiology, including an introduction to causal inference, overview of the measures of disease occurrence in populations, measures of association between exposures and outcomes, major study designs used in epidemiology and major sources of bias in epidemiologic studies. The course also aims to develop participants' skills in the critical evaluation of epidemiologic studies. This course will provide the foundation for more advanced methods in study design, causal inference and epidemiologic analysis. Material will be taught using a mix of lectures, discussion and worked examples in the classroom.

2. Introduction to G-Methods for Causal Inference
Instructor:
Jessie K. Edwards

This course builds on basic epidemiologic principles to introduce a suite of "generalized" methods for causal inference from observational data. Specifically, the course will introduce potential outcomes, discuss the components of a causal question, describe inverse probability weighting and g-computation for the estimation of causal effects and discuss specific methods to address various sources of bias within the causal framework. Each session will consist of both lecture and practice-based laboratory components. The course is targeted to students who have previously taken introductory courses in epidemiologic methods, have familiarity with the basics of probability and statistics and have some experience with data analysis.

3. Pharmacoepidemiology
Instructor:
Til Stürmer

Pharmacoepidemiology is a public health discipline that mainly relies on non-experimental (epidemiologic) methods to assess intended and unintended drug effects to support decision-makers in the absence of specific evidence from experimental studies (randomized controlled trials). This course is for clinicians, pharmacists, epidemiologists and scientists from related fields in academia, industry and regulatory agencies. It will provide an introduction and overview of pharmacoepidemiologic topics, methods, databases and review examples of current research. The course will look at specific aspects and potential pitfalls of epidemiologic study designs when applied to the study of drug effects and provide an overview of ways to limit the potential for bias.

4. Reproductive and Perinatal Epidemiology
Instructor:
Tania Desrosiers

This course is an introduction to the epidemiology of reproductive and perinatal health areas such as fertility, fetal loss, preterm delivery, birth defects, severe maternal morbidity and mortality, and early childhood neurodevelopment. Using current topics and examples from the literature, we will focus on the methodological challenges inherent in epidemiologic studies of these outcomes as well as in investigations of developmental origins of later health and disease including study design, exposure assessment during pregnancy, case ascertainment and major sources of bias.

Dates:	July 28 – August 01, 2025 Monday – Thursday: 09.00 am – 12.15 pm 01.15 pm – 04.30 pm Friday: 09.00 am – 11.00 am 11.15 am – 01.15 pm Every day there are two coffee breaks, one in the morning and one in the afternoon (Friday: one break).
Location:	Ulm University / Helmholtzstraße 22 / 89081 Ulm
Fees:	€ 600.00 per course (€ 1,200.00 for two courses) € 400.00 per course for persons coming from the DGEpi or the DZKJ (€ 800.00 for two courses) € 300.00 per course for employees of Ulm University and students (€ 600.00 for two courses) € 10.00 per course material as hardcopy (course materials in electronic form included in course fees)
Fellowships:	A limited number of fellowships is available for participants from low-income countries. Deadline for fellowship applications: April 30, 2025
Number of Participants:	Limited to a maximum of 25 participants per course
Application:	Please use the enclosed application form
Deadline:	June 30, 2025
Program Director:	Prof. Dr. med. Dietrich Rothenbacher, MPH
Coordinator at the School of Public Health, University of North Carolina at Chapel Hill:	Prof. Wayne Rosamond, PhD
For further information, please contact:	Nicole Kroll / Ulm University Institute of Epidemiology & Medical Biometry Helmholtzstraße 22 / D – 89081 Ulm Phone: +49 731 50 31076 / Fax: +49 731 50 31069 Email: nicole.kroll@uni-ulm.de https://www.uni-ulm.de/med/epidemiologie-biometrie/

Application form

International Summer School of Epidemiology at Ulm University
July 28 – August 01, 2025

Male: ___ Female: ___ Nationality: _____

Family name, degree: _____

First name: _____

Present occupation: _____

Address: _____

_____

_____

Phone: _____

E-Mail: _____

How did you learn about our courses? _____

Your course material: Electronically: _____ Hard copy (€ 10,00): _____

Status:

- ☐ Regular application
- ☐ Persons coming from the DGEpi
- ☐ Persons coming from the DZKJ
- ☐ Employee of Ulm University
- ☐ Student
- ☐ Fellowship Applicant

I would like to register for the following course(s):

Morning, 9:00 am – 12:15 pm
(select one course)

- ☐ Course 1: Introduction to Epidemiologic Methods
- ☐ Course 2: Introduction to G-Methods for Causal Inference

Afternoon, 1:15 pm – 4:30 pm
(select one course)

- ☐ Course 3: Pharmacoepidemiology
- ☐ Course 4: Reproductive and Perinatal Epidemiology

_____ _____

Place and Date Signature

Deadline for application: June 30, 2025

Please return to: Nicole Kroll, nicole.kroll@uni-ulm.de
Institute of Epidemiology & Medical Biometry
Ulm University, Helmholtzstraße 22, D – 89081 Ulm