





in collaboration with

Causal inference for population health sciences

Facilitator

PD Dr. Tracy Glass, PhD

Swiss Tropical and Public Health Institute & University of Basel

Description

This 4.5-day in-person course, comprising a mix of lectures and handson practical sessions, is aimed at students who want to gain a fundamental understanding of what causal inference is and how it might apply to their own research.

The course will cover defining the research question in a causal framework, creating a direct acyclic graph, identifying valid covariate adjustment sets, and selecting a method for estimating the causal contrasts. We will guide the learning through lectures followed by practical sessions applying the knowledge gained.

Objectives

Students will:

- understand the setting for which causal inference is warranted and the framework for potential outcomes
- understand the difference between causal estimands, estimators, and estimates
- understand how to generate and interpret a directed acyclic graph
- understand hypotheses underlying the identification of causal effects,
- identify the most suitable methods to answer different research questions,
- run basic analyses with the methods presented

Dates

14 – 18 September 2026

Eligibility

Open to PhD students of the SSPH+ Inter-university Graduate Campus; other students and external participants are welcome to apply.





Associated Institute of the University of Basel



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Prerequisites

Prerequisites for the course are knowledge in statistics, especially statistical inference and regression modeling with some experience in implementing statistical analysis.

Course **Structure** 4.5 days with time split between lectures and practical sessions.

Assessment

Class participation and practicals with presentations.

Credits

2 ECTS

Preliminary Work: 10 h; Contact time: 36 h; In-course work: 5-10 h

(1 ECTS corresponds to appr. 25-30 hours workload)

Location

Swiss TPH, Kreuzstrasse 2, 4123 Allschwil, Switzerland, room tba

Course Fees

IGC course fees	2 ECTS
SSPH+ IGC PhD and MD Students	30 CHF
Postdocs from SSPH+ partner institutes	30 CHF
External PhD students, external MD Students and Swiss Public Health Doctors in training	600 CHF
Others	1'600 CHF

Registration

https://www.conftool.com/ssph-phd-courses2026/

Deadline for registration

14 August 2026