General information

IGC Courses: Calls, Proposals and Funding

IGC Course Development and Selection

IGC courses are initiated and supported by the Academic Board of the IGC.

Calls for new IGC courses are open to all SSPH+ Faculty Members, who are invited to submit course proposals. The Academic Board reviews all proposals and decides which courses will be implemented.

Selected courses are initially offered for **five editions**. The Academic Board reserves the right to discontinue a course earlier if it does not meet demand or the expected standards. After five editions, a new call for proposals is issued. The current course facilitator is welcome to submit a new proposal.

Course Proposal Submission

Please submit your course proposal by email to the IGC Manager:
Ann Walser: **awalser@ssphplus.ch**

Funding

Course Development

The selected candidate receives **CHF 3,000** for developing the full course concept.

Course Delivery

The course budget is **CHF 5,000 per ECTS**, regardless of the number of lecturers.
This budget covers:

- Lecturer remuneration, including honoraria and expenses
- Course materials
- Room costs
- Coffee breaks
- Local course organization

Additional Travel and Accommodation Allowance

For **onsite courses**, an additional travel and accommodation allowance is available **per in-class course day**, regardless of the number of lecturers:

Course Day with:	**Allowance per course day**
Lecturer(s) from SSPH+ partner universities	CHF 0
Guest lecturer(s) from Switzerland	CHF 100
Guest lecturer(s) from Europe	CHF 300
Guest lecturer(s) from overseas	CHF 600

SSPH+ INTER-UNIVERSITY GRADUATE CAMPUS SWISS SCHOOL OF PUBLIC HEALTH

Call for a new course in the course program of the SSPH+ Inter-university Graduate Campus (IGC)

Course Topic: "Applied Bayesian Methods in Epidemiology and Public Health"

Basic idea

There has been a rising interest in applying Bayesian methods in public health research and medicine. The Bayesian approach effectively addresses issues in analyzing public health data by incorporating prior knowledge and contextual input (from already-published or early-insights evidence and/or subject matter expert opinion), enabling the assessment of *posterior distributions*. This approach allows for direct probability statements, unlike the dichotomized interpretation of hypothesis testing related p-values.
Bayesian methods offer valuable insights even with limited or heterogeneous data, common in public health studies. With the growing availability of computational tools and software, Bayesian methods can complement traditional/frequentists techniques without necessarily replacing them.
This course is intended to provide a practical overview of the concepts and data analysis methods used in Bayesian modelling, with practical applications in public health and integrating new artificial intelligence developments. It should not be only "theoretical" but at the same time should not just include practical sessions where students are invited to run a provided code: it is essential that students will have a flavor of the theoretical background of the approach and be able to run analysis and correctly interpret the results.

Objectives

After the course, the participants will have the knowledge and skills to:

- Describe the fundamental concepts in Bayesian analysis and explain the key differences between Bayesian and frequentist/classic approaches
- Explain the role of prior distribution in Bayesian inference
- Implement different forms of Bayesian statistical models using R/RStudio
- Interpret Bayesian analysis (especially regression models) results and perform model evaluation
- Communicate correctly results and findings of their analyses

Planned date

2028 / 2029

Planned duration

2 to 5 day-course (1 or 2 ECTS)

Teaching formats

Teaching modalities may include pre-course readings or preparation, E-learning, blended learning, in-person lectures, practical exercises, workshops, group work, and assessments

Submission date

30 November 2026

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