



## Utlysning av kursansvar för kurs inom program

Denna utlysning skickas till funktionsmailadresser UN, GUA samt prefekter.

<b>Programinformation</b>
<b>Utlysande utbildningsnämnd/programnämnd</b>
<i>Programförberedande nämnden (PfN) för Masterprogrammet i global hälsa</i>
<b>Kursen ges inom program</b>
<i>Master's Programme in Global Health</i>
<b>Övrig information</b>
<i>The language of instruction is English.</i>

<b>Kursinformation</b>
<b>Kursnamn</b>
<i>Quantitative research and methods 2 (6 hp)</i>
<b>Beskriv studenternas förkunskaper – från föregående kurser i programmet.</b>
<i>9th course, 2nd semester. Refer to the programme syllabus for earlier courses</i>
<b>Beskriv vilka examensmål kursen svarar mot.</b>
<b><i>Knowledge and understanding</i></b>
<ul style="list-style-type: none"><li><i>Demonstrate specialised methodological knowledge in the main field of study.</i></li></ul>
<b><i>Competence and skills</i></b>
<ul style="list-style-type: none"><li><i>Demonstrate the ability to critically and systematically integrate knowledge and analyse, assess and deal with complex phenomena, issues and situations even with limited information.</i></li><li><i>Demonstrate the ability to identify and formulate issues critically, autonomously and creatively as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames and so contribute to the formation of knowledge as well as the ability to evaluate this work.</i></li></ul>
<b><i>Judgment and approach</i></b>
<ul style="list-style-type: none"><li><i>Demonstrate the ability to make assessments in the main field of study informed by relevant disciplinary, social and ethical issues</i></li></ul>

*and also to demonstrate awareness of ethical aspects of research and development work.*

- *Demonstrate insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is use.*

### **Beskrivning av kurs (design, ämnes- och professions integrering, etc.)**

*This course provides a comprehensive understanding of the fundamental statistical concepts essential for designing scientific studies aimed at addressing global health questions. Students will delve into statistical models tailored for various common outcomes such as quantitative, binary, and time-to-event data, drawing from both experimental and observational studies. Emphasizing the critical role of uncertainty in research, the course empowers students to navigate and incorporate uncertainty across different stages of investigation, including planning, analysis, and interpretation. Through hands-on exercises and practical applications, students will gain the necessary skills to effectively design and analyze studies in the field of global health.*

*The course must include:*

- *Linear regression*
- *Logistic regression*
- *Non-parametric Kaplan-Meier*
- *Parametric Exponential survival model*
- *Semi-parametric Cox regression model*
- *Estimation methods (maximum likelihood, least squares)*
- *Hypothesis testing and confidence intervals about regression coefficients*
- *Absolute and partial predictions*

### **Länk till tidigare kursplan (om sådan finns)**

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### **Antal studenter**

30

### **Preliminär håp-nivå**

67,4 tkr (mean)

### **Preliminär första kursstart (ange termin)**

VT2026

### **Övrigt**

*The course is taught in English.*

