UCLouvain

wfsp2201

2026

Advanced methods in public health : seminar

3.00 credits	15.0 h	Q2

Teacher(s)	Speybroeck Niko ;
Language :	English
Place of the course	Bruxelles Woluwe
Prerequisites	A course on linear and logistic regression models is a need to follow this course. R (free downloadable software) will be used in some of the analyses and it is an advantage to master the basics of this software. *The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.*
Main themes	social epidemiology; network analysis; inequalities of health; burden of disease; the analysis of complexity.
Learning outcomes	**At the end of this learning unit, the student is able to :** 1 Learning outcomes will vary, depending on the focus which will be adapted according to current important public health problems asking advanced methods, and according to the expertise and research projects of the lecturer (Vincent Lorant & Niko Speybroeck). Learning outcomes may include: 1. Understanding and using main concepts in social epidemiology and network analysis in a public health context 2. Understanding and being able to conduct the analysis of health inequalities or social network analysis studies 3. Understanding burden of disease calculations and their use 4. Understanding the analysis of complexities in public health through simulation models and classification and regression trees
Evaluation methods	Paper presentation and essay (sometimes a short test) **Language** : **English**
Teaching methods	Language: English The course will be given in an interactive manner, with the aim to learn techniques that can be useful when working with epidemiological data.
Content	The content can include for example parts of the following: Climate change and health The analysis of health inequalities Analysis of complexities in public health Analysis of burden of disease
Inline resources	Moodle
Bibliography	---
Other infos	Language: English Goal : The course aims to teach the student on understanding and using advanced methods to analyze public health problems. The course is addressing topics such as social epidemiology, the analysis of health inequalities and the burden of disease.
Faculty or entity in charge	FSP

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Statistics: Biostatistics	BSTA2M	3		🔍
Master [120] in Public Health	ESP2M	3	WFSP2100 AND WFSP2104 AND WFSP2105	🔍