UCLouvain	wfsp2105 2022	Introduction à l'épidémiologie et à la démographie

5.00 credits	45.0 h + 10.0 h	Q1

Teacher(s)	Christiaens Antoine (compensates Henrard Séverine) ;D'Hoore William ;Henrard Séverine (coordinator) ;Masquelier Bruno ;Speybroeck Niko (compensates Henrard Séverine) ;
Language :	French > English-friendly
Place of the course	Bruxelles Woluwe
Learning outcomes	
Evaluation methods	The evaluation will consist of: • For the module on epidemiology: TPs (for 2/20) and a written exam (for 11/20) • For the module on demography: a written exam (for 7/20)
Teaching methods	The course will involve lectures illustrated with concrete examples from the scientific literature. It will be accompanied by exercises and the review of a scientific epidemiological paper **in english.**
Content	Content for the epidemiology module : • Introduction to epidemiology: history of epidemiology, definition and components • Natural history of a disease, causality and causal reasoning • Epidemiological observation: data sources, types of variables • Frequency measures in epidemiology: indicators of morbidity, mortality and standardization • Types of studies in epidemiology • Measures of effect in epidemiology: association measures and impact measures • Bias in epidemiology, including diagnostic tests and introduction to multivariable models Content for the demography module: • The age and sex composition of the population and the components of population dynamics, • Sources of demographic data • Demographic and epidemiological transitions • Tools for mortality analysis • Population aging and population projections
Bibliography	Livres disponibles à la Bibliothèque / Books available at the Library: • T. Ancelle. Statistique épidémiologie. 4me éd. Maloine 2017 • T. Ancelle. Statistique et épidémiologie : 100 exercices corrigés – Etudiants et professionnels en sciences de la santé. Maloine 2016
Faculty or entity in charge	FSP

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Public Health	ESP2M	5		🔍