



3.0 credits	20.0 h + 20.0 h	2q
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Teacher(s) :	Degryse Jean-Marie ; Speybroeck Niko (coordinator) ; Henrard Séverine (compensates Speybroeck Niko) ;
Language :	Français
Place of the course	Bruxelles Woluwe
Prerequisites :	<i>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.</i>
Main themes :	<p>1. Introduction: Brief review of the history of epidemiology: health, health determinants, and basic methods.</p> <p>2. Basic concepts in epidemiology:</p> <ul style="list-style-type: none"> a) Normality and pathological state in epidemiology b) The natural history of the disease c) Causality and causal reasoning in epidemiology. <p>3. Frequency measures in epidemiology:</p> <ul style="list-style-type: none"> a) Types of frequency measures b) Prevalence and incidence c) Measures of morbidity and mortality d) Relationship between frequency measures e) Basic demographic indicators used in health. <p>4. Measures of effect in epidemiology:</p> <ul style="list-style-type: none"> a) Association measures b) Impact measures. <p>5. Sources of information in epidemiology:</p> <ul style="list-style-type: none"> a) General principles: Inference, precision and validity, confounding and/or modification effect b) General typology of studies in epidemiology c) Descriptive studies including bias <p>Analytical studies including bias.</p>
Aims :	<p>To understand the basic concepts and the methodological approaches used in epidemiology</p> <p>To master elementary methods required in epidemiology</p> <p>Be able to apply the epidemiological approach in the practice of public health.</p> <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Evaluation methods :	Evaluation method: written exam.
Content :	The course is mainly organized around theoretical lectures illustrated by examples. It is completed by practical exercises solved at home. Solutions to the exercises will be uploaded in iCampus after being discussed in class. Students are invited to discover basic notions and use it to solve concrete problems.
Bibliography :	Support and references: Syllabus and presentations will be made available on iCampus.
Faculty or entity in charge:	SBIM

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Additionnal module in Biomedical Sciences	WSBIM100P	3	-	
Bachelor in Biomedicine	SBIM1BA	3	WSBIM1001	
Minor in biomedicine (open)	WSBIM100I	3	-	