

**At Bruxelles Woluwe - 60 credits - 1 year - Day schedule - In English**Dissertation/Graduation Project : **YES** - Internship : **NO**Activities in English: **YES** - Activities in other languages : **NO**Activities on other sites : **YES**Main study domain : **Sciences de la santé publique**Organized by: **Faculty of Public Health (FSP)**Programme acronym: **MPHM2MC** - Francophone Certification Framework: 7**Table of contents**

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## MPHM2MC - Introduction

### Introduction

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#### Introduction

##### Description :

The objective of this Advanced Master in Public Health Methodology is to provide a large degree of autonomy in the use of public health methods. The programme is addressed to public health professionals, health managers, who work at different levels of the health system, with a view to providing them with a specific skills needed for health system management and development of analytical and specialized approaches to strengthen their action strategies (operational research, health planning, health services research, health strategies and management). The targeted skills aim at the achievement of an overall objective which is to: "ensure methodological approaches and public health decision-makings, consistent with the needs of people, communities and individuals." This Advanced Master thus highlights the methodologies of analysis and investigation of major health issues in developing countries and in a global health approach. It also intends to give to the students a sufficient basis for a systemic understanding of health issues as well as contextual and environmental factors that determine the answers to them. By the variety of teaching methods and by the commitment of teachers and students, this Advanced Master will enable health professionals to specialize in the aspects of the fight against disease and for a better health (epidemiology and biostatistics), organization and policy, systems and health services management (health economics aspects, management, health planning and operational research) as well as the development of social approaches to health and transversal skills such as research methodology, scientific writing and capitalization of public health actions.

##### Training content

This 60 ECTS programme, which covers different methodological aspects, is composed of a compulsory part (50 ECTS) and an optional part (30 ECTS are proposed and the student must choose at least 10 - with a maximum of 25)

The compulsory part of the program counts for 50 ECTS:

- Biostatistics and epidemiology
- Qualitative methods and contextual factors in public health
- Health economics and quality management
- Planning and health system research and management
- Operational research and south lectures
- Master Thesis

The several optional teaching units are related to :

- Health information system, interview and questionnaire surveys
- Advanced methods in biostatistics and epidemiology
- The WHO strategy for incorporation of traditional medicine in healthcare
- Special research questions in public health
- Special research question in emergency situations
- Interdisciplinary seminars in translational medicine

##### Your profile

This Advanced Master is open to a wide range of practitioners (public health executives, medical doctors, health economists, research workers in the biomedical sector, etc.).

This course is an Advanced Master degree which means a master subsequent to a previous master. Therefore the general admission requirement for the course is that the applicants must possess a diploma at least equivalent to a master degree (5 years of university education).

To be admitted, applicants must bear a 2nd cycle degree considered equivalent to 300 credits (minimum 5 years of study) by the Jury. If the degree represents only 240 credits (minimum 4 years of study), the candidate should have acquired 60 extra credits through other 2nd cycle studies or through some form of specialization, or must prove to have acquired the useful knowledge through personal or professional experience.

## MPHM2MC - Teaching profile

### Learning outcomes

### Programme structure

> [Common part](#) [ en-prog-2020-mphm2mc-tronc\_commun ]

List of electives

> [Optional modules](#) [ en-prog-2020-mphm2mc-wmphm108o ]

## MPHM2MC Detailed programme

### Programme by subject

#### CORE COURSES [50.0]

● Mandatory

△ Courses not taught during 2020-2021

⊕ Periodic courses taught during 2020-2021

⊗ Optional

⊖ Periodic courses not taught during 2020-2021

■ Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

#### ○ Thesis (15 credits)

Les 3 activités sont organisées à l'ULB

● WMPHM2500	<a href="#">Seminars of epidemiological methods</a>		0h+24h	4 Credits	q1 or q2
● WMPHM2511	<a href="#">Protocol development and health examination survey</a>		12h+16h	5 Credits	q1
● WMPHM2200	<a href="#">Integration of statistical and epidemiological methods</a>	Annie Robert	24h	6 Credits	q2

#### ○ Biostatistics in public health, part I (5 credits)

L'activité est organisée à l'ULB

● WMPHM2502	<a href="#">Biostatistics in public health, part I</a>		24h+28h	5 Credits	q1
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#### ○ Biostatistics in public health, part II (5 credits)

Les 2 activités sont organisées à l'ULB

● WMPHM2504	<a href="#">Biostatistics in public health: multivariate analysis</a>		24h+16h	3 Credits	q2
● WMPHM2505	<a href="#">Sampling methods: theory and practice</a>		12h+8h	2 Credits	q2

#### ○ Epidemiology (5 credits)

Les 2 activités sont organisées à l'ULB

● WMPHM2201	<a href="#">Epidemiological methods</a>	Séverine Henrard	12h+12h	3 Credits	q1
● WMPHM2202	<a href="#">Clinical epidemiology</a>	Jean-Marie Degryse	12h	2 Credits	q1

**o Qualitative methods and contextual factors in public health (5 credits)***Les 2 activités sont organisées à l'ULB*

o WMPHM2506	Qualitative methods: data collection and analysis		12h+12h	3 Credits	q2
o WMPHM2507	Contextual factors in public health		12h	2 Credits	q2

**o Health economics & Quality management (5 credits)***Les 2 activités sont organisées à l'UMONS*

o WMPHM2600	Health economics		20h	2 Credits	q2
o WMPHM2601	Quality management and risk in healthcare facilities		28h	3 Credits	q2

**o Operational research (5 credits)***Les 2 activités sont organisées à l'ULB*

o WMPHM2508	Applications to low - and middle - income countries		0h+24h	1 Credits	q2
o WMPHM2509	Health services, strategies and evaluation		12h+24h	4 Credits	q2

**o Planning and health system research & management (5 credits)***Les 3 activités sont organisées à l'ULB*

o WMPHM2602	Health system management and strengthening		12h+12h	2 Credits	q1
o WMPHM2603	Hospital management		12h+12h	2 Credits	q1
o WMPHM2605	Principles of management and human relation management		12h	1 Credits	q1

## Optional modules [10.0]

### OPTIONAL MODULES [10.0]

○ Mandatory

△ Courses not taught during 2020-2021

⊕ Periodic courses taught during 2020-2021

⊗ Optional

⊖ Periodic courses not taught during 2020-2021

■ Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Optional ECTS - Minimum 10, maximum 25 (to obtain 75 ECTS on the whole)

#### ○ Content:

#### ⊗ The WHO Strategy for incorporation of traditional medicine in healthcare (5 credits)

L'activité est organisée à l'UMONS

○ WMPHM2604	<a href="#">The who strategy for incorporation of Traditional Medicine in healthcare</a>		12h+12h	5 Credits	q1
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#### ⊗ Advanced methods in biostatistics and epidemiology (5 credits)

○ WFSP2238P	<a href="#">Advanced epidemiology (UCL)</a>	<a href="#">Niko Speybroeck</a>	20h+16h	4 Credits	q2
○ WMPHM2512	<a href="#">Advanced biostatistic: meta-analysis</a>		16h+8h	1 Credits	q2

#### ⊗ Special research questions in public health (5 credits)

Les 2 activités sont organisées à l'UCL

○ WMPHM2203	<a href="#">Clinical trials and vaccine development studies: phases I to IV, plus survival analysis with Cox regression</a>	<a href="#">Annie Robert</a>	16h+8h	3 Credits	q1
○ WMPHM2204	<a href="#">Impact of environment on health in developing countries with disease mapping and multilevel analysis methods</a>	<a href="#">Sophie Vanwambeke</a>	6h+6h	2 Credits	q1

#### ⊗ Special research questions in emergency situations (5 credits)

Les 2 activités sont organisées à l'UCL

○ WMPHM2205	<a href="#">Clinimetrics: scales and instrumental variables to measure health outcomes</a>	<a href="#">Jean-Marie Degryse</a>	24h	3 Credits	q2
○ WMPHM2206	<a href="#">Applications of epidemiological methods in post conflict and disaster settings</a>	<a href="#">Joris van Loenhout</a>	12h	2 Credits	q2

## The programme's courses and learning outcomes

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For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document *"In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?"*

## MPHM2MC - Information

### Access Requirements

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*In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.  
Decree of 7 November 2013 defining the landscape of higher education and the academic organization of studies.  
The admission requirements must be met prior to enrolment in the University.*

***In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.***

#### SUMMARY

- [General access requirements](#)

### General access requirements

Subject to the general requirements laid down by the academic authorities, admission to the specialized Master's degree programme will be granted to students who fulfil the entry requirements for studies leading to the award of a Master's (second-cycle) degree and who hold a second-cycle diploma, degree, certificate or other qualification issued within or outside the French Community of Belgium, or whose prior learning or experience has been accredited by the Examination Board as being equivalent to at least 300 credits.

## Evaluation

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*The evaluation methods comply with the **regulations concerning studies and exams** (<https://uclouvain.be/fr/decouvrir/rgee.html>). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".*

## Contacts

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### Curriculum Management

#### Faculty

Structure entity	SSS/FSP
Denomination	Faculty of Public Health (FSP)
Sector	Health Sciences (SSS)
Acronym	FSP
Postal address	Clos Chapelle-aux-champs 30 - bte B1.30.02 1200 Woluwe-Saint-Lambert Tel: <a href="tel:+3227643439">+32 (0)2 764 34 39</a> - Fax: <a href="tel:+3227643435">+32 (0)2 764 34 35</a>

#### Mandate(s)

- Dean : William D'Hoore

#### Commission(s) of programme

- Commission de programme du master complémentaire en médecine du travail (MDTE)
- Commission programme master de spécialisation en méthodologie de la santé publique-Specialized master in public health methodology (MPHM)
- Commission de programme du master en santé publique, finalité spécialisée (MSPS)
- Commission programme master de spécialisation en sciences de la santé publique-Méthodes de recherche appliquées à la santé globale (MSSP)

Academic supervisor: Annie Robert

#### Useful Contact(s)

- Gaelle Tiberghien
- Responsable administrative ULB (Tel: +3225554013): [catherine.ververis@ulb.ac.be](mailto:catherine.ververis@ulb.ac.be)



