Master de spécialisation en méthodologie de la santé publique
- Specialized master in public health methodology

⚠️ The version you're consulting is not definitive. This programme still may change. The final version will be published on 1th June.

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: Faculté de santé publique (FSP)
Programme acronym: mphm2mc - Francophone Certification Framework: 7

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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.
### MPHMC - Teaching profile

#### Learning outcomes

#### Programme structure

> **Common part**
> [en-prog-2019-mphm2mc-wmphm100t.html]

> **Optional modules**
> [en-prog-2019-mphm2mc-wmphm108o.html]

### MPHMC Detailed programme

#### Programme by subject

#### CORE COURSES [50.0]

- **Mandatory**
  - Courses not taught during 2019-2020
  - Periodic courses not taught during 2019-2020
  - Activity with requisites

- **Optional**
  - Courses not taught during 2019-2020
  - Periodic courses taught during 2019-2020

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

- **Thesis (15 credits)**
  - Les 3 activités sont organisées à l'ULB

  - WMPHM2500: Seminars of epidemiological methods
    - Credit: 5
    - Credits: 2q
  - WMPHM2501: Practice of biostatistics in public health
    - Credit: 5
    - Credits: 2q
  - WMPHM2200: Integration of statistical and epidemiological methods
    - Credit: 5
    - Credits: 2q

- **Biostatistics in public health (10 credits)**
  - Les 4 activités sont organisées à l'ULB

  - WMPHM2502: Programming elements for data analysis
    - Credit: 1
    - Credits: 1q
  - WMPHM2503: Biostatistics in public health: univariate analysis
    - Credit: 4
    - Credits: 1q
  - WMPHM2504: Biostatistics in public health: multivariate analysis
    - Credit: 3
    - Credits: 2q
  - WMPHM2505: Sampling methods: theory and practice
    - Credit: 2
    - Credits: 2q

- **Epidemiology (5 credits)**
  - Les 2 activités sont organisées à l'ULB

  - WMPHM2201: Epidemiological methods
    - Credit: 3
    - Credits: 1q
  - WMPHM2202: Clinical epidemiology
    - Credit: 2
    - Credits: 1q
### Qualitative methods and contextual factors in public health (5 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Description</th>
<th>Credits</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>WMPHM2506</td>
<td>Qualitative methods: date collection and analysis</td>
<td>3</td>
<td>2q</td>
</tr>
<tr>
<td>WMPHM2507</td>
<td>Contextual factors in public health</td>
<td>2</td>
<td>2q</td>
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</table>

### Health economics & Quality management (5 credits)

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<tr>
<th>Code</th>
<th>Course Description</th>
<th>Credits</th>
<th>Session</th>
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<tbody>
<tr>
<td>WMPHM2600</td>
<td>Health economics</td>
<td>2</td>
<td>2q</td>
</tr>
<tr>
<td>WMPHM2601</td>
<td>Quality management and risk in healthcare facilities</td>
<td>3</td>
<td>2q</td>
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### Operational research and South Lectures (5 credits)

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<tr>
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<th>Session</th>
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<tbody>
<tr>
<td>WMPHM2508</td>
<td>Planning of operational research</td>
<td>2</td>
<td>2q</td>
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<tr>
<td>WMPHM2509</td>
<td>Health services, strategies and evaluation</td>
<td>2</td>
<td>2q</td>
</tr>
<tr>
<td>WMPHM2510</td>
<td>South lectures</td>
<td>1</td>
<td>2q</td>
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### Planning and health system research & management (5 credits)

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<tr>
<th>Code</th>
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<tr>
<td>WMPHM2602</td>
<td>Health system management and strengthening</td>
<td>2</td>
<td>1q</td>
</tr>
<tr>
<td>WMPHM2603</td>
<td>Hospital management</td>
<td>2</td>
<td>1q</td>
</tr>
<tr>
<td>WMPHM2605</td>
<td>Principles of management and human relation management</td>
<td>1</td>
<td>1q</td>
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</table>
### Optional modules [10.0]

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Optional</th>
<th>Periodic courses not taught during 2019-2020</th>
<th>Activity with requisites</th>
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</thead>
</table>

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

**Health surveys research (5 credits)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WMPHM2511</td>
<td>Protocol design and development and health examination survey (ULB)</td>
<td>24h 3 Credits 1q</td>
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<tr>
<td>WFSP2202P</td>
<td>Health survey methods</td>
<td>20h 2 Credits 1q</td>
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</tbody>
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**The WHO Strategy for incorporation of traditional medicine in healthcare (5 credits)**

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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WMPHM2604</td>
<td>The who strategy for incorporation of Traditional Medicine in healthcare</td>
<td>24h 5 Credits 1q</td>
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**Advanced methods in biostatistics and epidemiology (5 credits)**

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WFSP2238P</td>
<td>Advanced epidemiology (UCL)</td>
<td>20h+20h 4 Credits 2q</td>
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<tr>
<td>WMPHM2512</td>
<td>Advanced biostatistic: meta-analysis</td>
<td>12h 1 Credits 2q</td>
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**Special research questions in public health (5 credits)**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WMPHM2203</td>
<td>Clinical trials and vaccine development studies: phases I to IV, plus survival analysis with Cox regression</td>
<td>16h+8h 3 Credits 1q</td>
</tr>
<tr>
<td>WMPHM2204</td>
<td>Impact of environment on health in developing countries with disease mapping and multilevel analysis methods</td>
<td>6h+6h 2 Credits 1q</td>
</tr>
</tbody>
</table>

**Special research questions in emergency situations (5 credits)**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WMPHM2205</td>
<td>Clinimetrics: scales and instrumental variables to measure health outcomes</td>
<td>24h 3 Credits 2q</td>
</tr>
<tr>
<td>WMPHM2206</td>
<td>Applications of epidemiological methods in post conflict and disaster settings</td>
<td>12h 2 Credits 2q</td>
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</tbody>
</table>

**Interdisciplinary seminars in translational medicine (5 credits)**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WMPHM2513</td>
<td>Interdisciplinary seminars in translational medicine (ULB)</td>
<td>60h 5 Credits 2q</td>
</tr>
</tbody>
</table>
The programme's courses and learning outcomes

For each UCL 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?"

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The document is available by clicking this link after being authenticated with UCL account.
Admission

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 requirements
• Specific Admission Requirements

General 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

The evaluation methods comply with the regulations concerning studies and exams. 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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