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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-making, 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 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.
### Learning outcomes

### MPHM2MC Programme

#### Detailed programme by subject

**CORE COURSES [50.0]**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Teaching Language</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WMPHM2500</td>
<td>Seminars of epidemiological methods</td>
<td>EN</td>
<td>4</td>
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<tr>
<td>WMPHM2511</td>
<td>Protocol development and health examination survey</td>
<td>EN</td>
<td>5</td>
</tr>
<tr>
<td>WMPHM2200</td>
<td>Integration of statistical and epidemiological methods</td>
<td>Annie Robert</td>
<td>6</td>
</tr>
</tbody>
</table>

- Thesis (15 credits)
  - WMPHM2500 Seminars of epidemiological methods
  - WMPHM2511 Protocol development and health examination survey
  - WMPHM2200 Integration of statistical and epidemiological methods

- Biostatistics in public health, part I (5 credits)
  - WMPHM2502 Biostatistics in public health, part I

- Biostatistics in public health, part II (5 credits)
  - WMPHM2504 Biostatistics in public health: multivariate analysis
  - WMPHM2505 Sampling methods: theory and practice

- Epidemiology (5 credits)
  - WMPHM2201 Epidemiological methods
  - WMPHM2202 Clinical epidemiology

- Qualitative methods and contextual factors in public health (5 credits)
  - WMPHM2506 Qualitative methods: data collection and analysis
  - WMPHM2507 Contextual factors in public health
### Health economics & Quality management (5 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Description</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WMPHM2600</td>
<td>Health economics</td>
<td>2 [q2]</td>
</tr>
<tr>
<td>WMPHM2601</td>
<td>Quality management and risk in healthcare facilities</td>
<td>3 [q2]</td>
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</tbody>
</table>

Les 2 activités sont organisées à l'UMONS

### Operational research (5 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Description</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WMPHM2508</td>
<td>Applications to low - and middle - income countries</td>
<td>1 [q2]</td>
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<tr>
<td>WMPHM2509</td>
<td>Health services, strategies and evaluation</td>
<td>4 [q2]</td>
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</tbody>
</table>

Les 2 activités sont organisées à l'ULB

### Planning and health system research & management (5 credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMPHM2602</td>
<td>Health system management and strengthening</td>
<td>2 [q1]</td>
</tr>
<tr>
<td>WMPHM2603</td>
<td>Hospital management</td>
<td>2 [q1]</td>
</tr>
<tr>
<td>WMPHM2605</td>
<td>Principles of management and human relation management</td>
<td>1 [q1]</td>
</tr>
</tbody>
</table>

Les 3 activités sont organisées à l'ULB
Optional modules [10.0]

<table>
<thead>
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<th>Mandatory</th>
<th>Optional</th>
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<tbody>
<tr>
<td>△ Not offered in 2021-2022</td>
<td>□ Not offered in 2021-2022 but offered the following year</td>
</tr>
<tr>
<td>✕ Offered in 2021-2022 but not the following year</td>
<td>♻ Not offered in 2021-2022 or the following year</td>
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Activity with requisites

Teaching language (FR, EN, ES, NL, DE, ...)

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) | Advanced methods in biostatistics and epidemiology (5 credits) | Special research questions in public health (5 credits) | Special research questions in emergency situations (5 credits) |
| WMPHM2604 The who strategy for incorporation of Traditional Medicine in healthcare | WFSP2238P Advanced epidemiology (UCL) | WMPHM2203 Clinical trials and vaccine development studies: phases I to IV, plus survival analysis with Cox regression | WMPHM2205 Clinicalmetrics: scales and instrumental variables to measure health outcomes |
| WMPHM2204 Advanced biostatistic: meta-analysis | WMPHM2512 Advanced biostatistics: meta-analysis | WMPHM2204 Impact of environment on health in developing countries with disease mapping and multilevel analysis methods | WMPHM2206 Applications of epidemiological methods in post conflict and disaster settings |
| [q1] [12h+12h] [5 Credits] | [q2] [20h+16h] [4 Credits] | [q2] [16h+8h] [1 Credits] | [q2] [24h] [3 Credits] △ |
| [q2] [6h+6h] [2 Credits] | | | [q2] [12h] [2 Credits] |
The programme's courses and learning outcomes

For each UCLouvain training programme, a reference framework of learning outcomes specifies the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.
Access Requirements

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

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

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: +32 (0)2 764 34 39 - Fax: +32 (0)2 764 34 35

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)

• Responsable administrative de faculté: Gaelle Tiberghien
• Responsable administrative ULB (Tel: +3225554013): catherine.ververis@ulb.ac.be