MPHM2MC

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

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

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

### Core courses [50.0]

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Hours</th>
<th>Credits</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMPHM2500</td>
<td>Seminars of epidemiological methods</td>
<td>Katia Castelbon</td>
<td>24h</td>
<td>5</td>
<td>2q</td>
</tr>
<tr>
<td>WMPHM2501</td>
<td>Practice of biostatistics in public health</td>
<td>Fati Kirakoya</td>
<td>24h</td>
<td>5</td>
<td>2q</td>
</tr>
<tr>
<td>WMPHM2200</td>
<td>Integration of statistical and epidemiological methods</td>
<td>Annie Robert</td>
<td>24h</td>
<td>5</td>
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### Thesis (15 credits)

Les 3 activités sont organisées à l'ULB

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>Integration of statistical and epidemiological methods</td>
<td>Annie Robert</td>
<td>24h</td>
<td>5</td>
<td>2q</td>
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### Biostatistics in public health (10 credits)

Les 4 activités sont organisées à l'ULB

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Hours</th>
<th>Credits</th>
<th>Period</th>
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<tbody>
<tr>
<td>WMPHM2502</td>
<td>Programming elements for data analysis</td>
<td>Christelle Senterre</td>
<td>12h</td>
<td>1</td>
<td>1q</td>
</tr>
<tr>
<td>WMPHM2503</td>
<td>Biostatistics in public health: univariate analysis</td>
<td>Fati Kirakoya</td>
<td>24h+24h</td>
<td>4</td>
<td>1q</td>
</tr>
<tr>
<td>WMPHM2504</td>
<td>Biostatistics in public health: multivariate analysis</td>
<td>Christelle Senterre</td>
<td>12h+12h</td>
<td>3</td>
<td>2q</td>
</tr>
<tr>
<td>WMPHM2505</td>
<td>Sampling methods: theory and practice</td>
<td>Fati Kirakoya</td>
<td>12h</td>
<td>2</td>
<td>2q</td>
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### Epidemiology (5 credits)

Les 2 activités sont organisées à l'ULB

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Hours</th>
<th>Credits</th>
<th>Period</th>
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<tbody>
<tr>
<td>WMPHM2201</td>
<td>Epidemiological methods</td>
<td>Séverine Henrard</td>
<td>12h+12h</td>
<td>3</td>
<td>1q</td>
</tr>
<tr>
<td>WMPHM2202</td>
<td>Clinical epidemiology</td>
<td>Jean-Marie Degryse</td>
<td>12h</td>
<td>2</td>
<td>1q</td>
</tr>
</tbody>
</table>
Qualitative methods and contextual factors in public health (5 credits)

Les 2 activités sont organisées à l'ULB

- WMPHM2506 Qualitative methods: date collection and analysis
  - Giuseppe Pagano
  - Frank Vennmans
  - 12h+12h
  - 3 Credits
  - 2q

- WMPHM2507 Contextual factors in public health
  - Isabelle Godin
  - 12h+0h
  - 2 Credits
  - 2q

Health economics & Quality management (5 credits)

Les 2 activités sont organisées à l'UMONS

- WMPHM2600 Health economics
  - Giuseppe Pagano
  - Frank Vennmans
  - 20h
  - 2 Credits
  - 2q

- WMPHM2601 Quality management and risk in healthcare facilities
  - Christian Delvosalle
  - Lahcen El Hiki
  - 24h
  - 3 Credits
  - 2q

Operational research and South Lectures (5 credits)

Les 3 activités sont organisées à l'ULB

- WMPHM2508 Planning of operational research
  - Isaline Greindl
  - Patrick Martiny
  - 12h
  - 2 Credits
  - 2q

- WMPHM2509 Health services, strategies and evaluation
  - Aline Labat
  - 12h
  - 2 Credits
  - 2q

- WMPHM2510 South lectures
  - 12h
  - 1 Credits
  - 2q

Planning and health system research & management (5 credits)

Les 3 activités sont organisées à l'ULB

- WMPHM2602 Health system management and strengthening
  - Patrick Martiny
  - 12h+12h
  - 2 Credits
  - 1q

- WMPHM2603 Hospital management
  - André Vandenberghe
  - 12h+12h
  - 2 Credits
  - 1q

- WMPHM2605 Principles of management and human relation management
  - 12h+0h
  - 1 Credits
  - 1q
### Optional modules [10.0]

<table>
<thead>
<tr>
<th>Mandatory</th>
<th>Optional</th>
<th>Periodic courses not taught during 2017-2018</th>
<th>Activity with requisites</th>
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</thead>
<tbody>
<tr>
<td>Courses not taught during 2017-2018</td>
<td>Periodic courses taught during 2017-2018</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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)

#### Health surveys research (5 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>ECTS</th>
<th>Credits</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMPHM2511</td>
<td>Protocol design and development and health examination survey (ULB)</td>
<td>Katia Castelbon, Isabelle Godin</td>
<td>5</td>
<td>3</td>
<td>1q</td>
</tr>
<tr>
<td>WFSP2202P</td>
<td>Health survey methods</td>
<td>Lydia Gisile</td>
<td>5</td>
<td>2</td>
<td>1q</td>
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#### The WHO Strategy for incorporation of traditional medicine in healthcare (5 credits)

L'activité est organisée à l'UMONS

<table>
<thead>
<tr>
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<th>ECTS</th>
<th>Credits</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMPHM2604</td>
<td>The who strategy for incorporation of Traditional Medicine in healthcare</td>
<td>Pierre Duez</td>
<td>5</td>
<td>5</td>
<td>1q</td>
</tr>
</tbody>
</table>

#### Advanced methods in biostatistics and epidemiology (5 credits)

WFSP2238P  | Advanced epidemiology (UCL) | 20h+20h | 4 Credits | 2q      |
WFSP22512  | Advanced biostatistic: meta-analysis | Fati Kirakoya | 12h | 1 Credits | 2q      |

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

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>WMPHM2203</td>
<td>Clinical trials and vaccine development studies: phases I to IV, plus survival analysis with Cox regression</td>
<td>Annie Robert</td>
<td>16h+8h</td>
<td>3</td>
<td>1q</td>
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<tr>
<td>WMPHM2204</td>
<td>Impact of environment on health in developing countries with disease mapping and multilevel analysis methods</td>
<td>Sophie Vanwambeke</td>
<td>6h+6h</td>
<td>2</td>
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#### Special research questions in emergency situations (5 credits)

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</thead>
<tbody>
<tr>
<td>WMPHM2205</td>
<td>Clinimetrics: scales and instrumental variables to measure health outcomes</td>
<td>Jean-Marie Degryse</td>
<td>24h</td>
<td>3</td>
<td>2q</td>
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<tr>
<td>WMPHM2206</td>
<td>Applications of epidemiological methods in post conflict and disaster settings</td>
<td>Debarati Guha</td>
<td>12h</td>
<td>2</td>
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#### Interdisciplinary seminars in translational medicine (5 credits)

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<th>Course Code</th>
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<th>Period</th>
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</thead>
<tbody>
<tr>
<td>WMPHM2513</td>
<td>Interdisciplinary seminars in translational medicine (ULB)</td>
<td>Samia Laokri</td>
<td>60h</td>
<td>5</td>
<td>2q</td>
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</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?”

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