



## **Master complémentaire en public health methodology [MC-STME]**

### **Caractéristiques du programme**

#### **Compétences visées**

The objective of the programme is to provide a large degree of autonomy in the use of Public Health Methods and the transmission of this knowledge in professional life.

#### **Structure du programme**

Fundamentals of computer science are acquired at the beginning of the course. Both basic and advanced methods in statistics and epidemiology are developed through lectures and practice. Integration with other methods is illustrated in various fields : operational research, health planning, health services research, health strategies, demography. Participants are trained to communicate the acquired knowledge to their colleagues, through audiovisual and computer support.

#### **Spécificités**

The course is open to public health executives, medical doctors directed towards epidemiological methods, decision makers, health statisticians and research workers in the biomedical sector.

#### **Information pratiques**

**Equipes partenaires** The member universities of the Académie universitaire Wallonie-Bruxelles take part in the organization of the PHM programme : - Université Libre de Bruxelles (Ecole de Santé publique), which is the academic coordinator of the PHM programme ; - Université de Mons (Faculté de Médecine et de Pharmacie, Faculté Warocqué d'Economie et de gestion, Faculté de Psychologie et Sciences de l'éducation).

**Horaire** : One-year programme.

**Lieu d'enseignement** : Brussels (ULB), Mons (UMONS).

**Catalogue des cours** : <http://www.academiewb.be/catalogue/MC-STME.html>

#### **Où s'informer ? ULB - Ecole de Santé publique**

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### **Conditions d'accès**

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

### **Jury d'examens**

Président : Mme Filomena Valente Soares(ULB)

Secrétaire : Mme France Kittel (ULB)

### **Cursus**

Année unique - **STME6**

**Epidemiological Methods**

- SAPU-L-650 Epidemiological methods • M. Raphaël LAGASSE • 4 ECTS (théorie 1, exercices 1, travaux personnels 2)
- SAPU-L-654 Health information systems / questionnaire surveys • M. Raphaël LAGASSE et Mme Isabelle GODIN • 4 ECTS (théorie 1, exercices 1, travaux personnels 2)
- SAPU-L-656 Contextual factors in public health • Mme Isabelle GODIN • 2 ECTS (théorie 1, travaux personnels 1)
- SAPU-L-661 Clinical epidemiology • M. Pierre DEBUSSCHERE • 2 ECTS (théorie 1, travaux personnels 1)

**Statistical Methods**

- STAT-L-650 Biostatistics in public health • Mme Filomena VALENTE SOARES • 6 ECTS (théorie 2, exercices 2, travaux personnels 2)
- STAT-L-651 Biostatistics : multivariate analysis • Mme Filomena VALENTE SOARES • 2 ECTS (théorie 1, exercices 1)
- SAPU-L-660 Demography • Mme Viviane DE MAERTELAER • 2 ECTS (théorie 1, travaux personnels 1)

**Integration of Statistical and Epidemiological Methods**

- MEMO-L-650 Thesis • M. Raphaël LAGASSE, Mme Filomena VALENTE SOARES, M. Pierre DEBUSSCHERE et Mme Judith RACAPE • 16 ECTS (exercices 8, travaux pratiques 1, travaux personnels 7)

**Qualitative Methods**

- SAPU-L-657 Qualitative methods • Mme Katie BRISTOW • 4 ECTS (théorie 1, exercices 1, travaux personnels 2)

**Planning, Management and Organisation of Health Systems and Services**

- SAPU-L-651 Operational research and health planning • M. Denis PORIGNON • 4 ECTS (théorie 1, exercices 1, travaux personnels 2)
- SAPU-L-653 Health services, strategies and evaluation • M. Bruno DUJARDIN • 2 ECTS (théorie 1, travaux personnels 1)
- SAPU-L-666 Principles of management • M. Mathieu PLEYERS • 2 ECTS (théorie 1, travaux personnels 1)
- SAPU-L-681 Human resource management • M. Mathieu PLEYERS • 2 ECTS (théorie 1, travaux personnels 1)
- SAPU-L-664 Health systems management • M. Giuseppe PAGANO • 4 ECTS (théorie 2, travaux personnels 2)
- SAPU-L-665 Hospital management • M. André VANDENBERGHE • 4 ECTS (théorie 2, travaux personnels 2)

**Optional module "Communication "**

- SAPU-L-670 Written communication • Mme France KITTEL • 2 ECTS (théorie 1, travaux personnels 1)
- SAPU-L-671 Large scale communication • M. Frédéric WITTOCK • 2 ECTS (exercices 1, travaux personnels 1)
- SAPU-L-672 Oral communication • Mme Isabelle GODIN • 2 ECTS (exercices 1, travaux personnels 1)
- SAPU-L-673 E-Communication • Mme Pascale VANDEPEUTTE • 2 ECTS (théorie 1, travaux personnels 1)
- SAPU-L-674 Audiovisual communication • M. Bruno DELIEVRE • 2 ECTS (théorie 1, travaux personnels 1)

**Optional module "Advanced methodologies"**

- SAPU-L-680 Screening tests • M. Pierre DEBUSSCHERE • 2 ECTS (théorie 1, travaux personnels 1)
- SAPU-L-682 Perinatal screening • Mme Sophie KARLIN • 2 ECTS (théorie 1, travaux personnels 1)
- SAPU-L-684 Decision theory • Mme Sophie KARLIN • 2 ECTS (théorie 1, travaux personnels 1)
- SAPU-L-685 Advanced epidemiology • M. Raphaël LAGASSE • 2 ECTS (exercices 1, travaux personnels 1)
- SAPU-L-686 Advanced biostatistics • Mme Filomena VALENTE SOARES • 2 ECTS (exercices 1, travaux personnels 1)