



# Master in Public Health

## Focus Environmental Health

MA-SAPU | M-SAPUE | 2023-2024

This formation is organized in flexible hours.

### Programme mnemonic

MA-SAPU

> Focus *Environmental Health* : M-SAPUE

### Exists also in

- > Focus *Epidemiology and biostatic* : M-SAPUB
- > Focus *Politics, systems and promotion of health* : M-SAPUH
- > Focus *Management of healthcare institutions and services (working schedule)* : M-SAPUG

### Studies level

Master 120 credits

### Learning language

french

### Schedule

flexible hours

### Studies category / subcategory

Health / Public Health

### Campus

Erasme

sciences, pedagogy, hygiene, epidemiology, management, politics, communication, etc.

## Programme's added value

The School of Public Health is part of ULB's 'Health Pole and is located on the Erasmus Campus, at the crossroads of a number of very diverse fields and disciplines with an extremely high level of expertise in health care (whether for research, training, or health care structures).

A key factor of life at the School is the variety of backgrounds among the students, researchers, and teachers, who are all from different origins and walks of life, providing a valuable network of contacts in both the Northern and Southern hemispheres.

The Master has 4 orientations:

- > Biostatistics and epidemiology

This orientation gives students comprehensive knowledge and a set of methods used in statistics, epidemiology, operational research, and clinical research, including quantitative analysis methods. Students are trained to use computers applications designed for public health and medicine.

- > Health services management

In this orientation, students are trained to develop the skills required to manage responsibilities in health care services (hospitals, day care units, rest and care homes, rehabilitation structures). Those responsibilities could be either managerial or clinical ones.

- > Health systems policies and health promotion

Students can decide to specialise in health promotion or in the analysis of health systems. In this orientation they acquire knowledge, skills, and methodologies that enable them to work on health systems or carry out situational analysis, decision-making or research activities. The main topics are related to designing and planning programmes, decision-making, epidemiology, and health information systems. As future public health professionals, students are trained to

## Programme objectives

The goal of the Master in Public Health is to train public health professionals with a multi-faceted skill profile. Graduates of the programme will be able to draw up, implement, and assess projects related to health care and qualitative and/or quantitative research. They will also be able to manage and analyse databases and make use of health information in decision-making, and will possess the knowledge of epidemiology and methods (in terms of statistics and information technology) required to implement their decisions. They will also be able to provide training in health care management and environmental health.

Studying public health involves an interdisciplinary approach: biostatistics, law, economy, sociology, psychology, food



assess community (locally or at a higher level) health needs, to establish an epidemiological, environmental, political, and pedagogical diagnosis. They will be able to develop and plan health programmes and projects, and to coordinate and manage preventive, curative, and rehabilitation activities in the fields of health education and promotion. They also learn how to evaluate such programmes.

> Environmental health

Courses in this orientation provide the students with the knowledge and methods (environmental studies, socio-political and legal aspects, epidemiological aspects) required to study environmental health, acquire the required skills to analyse situations, take decisions, and launch activities and research projects.

Teaching methods

Learning sessions are grouped into research units, which cover various activities: lectures, seminars, training courses, or projects. They can be conventional classroom activities or e-learning.

Succeed in your studies

Choose

The information and guidance counsellors at the InfOR-études [https://www.ulb.be/en/studies-info-desk-1] service will help you choose your studies throughout the year.

Succeed

Take part in preparatory courses [https://www.ulb.be/en/studies-info-desk-1] or get help to succeed [https://www.ulb.be/en/studies-info-desk-1] , before or during your studies.

Get help

Apply for financial aid, look for accommodation or a student job, get support [https://www.ulb.be/fr/aides-services-et-accompagnement/aid-services-and-support-1] for your specific needs.

Job opportunities

The programme offers many opportunities in research (public or private organisations), health services, research units, public health institutions, health observatories; NGO's and international institutions

Contacts

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Jury President

Philippe VAN WILDER

Jury Secretary

Céline Mahieu



# Master in Public Health

## Focus Environmental Health

The Master in Public Health is a master with a professional focus that prepares students to work in public health; it is suited to industrialised as well as developing countries.

Students in this programme can choose one of four specialisations. The common core includes courses totalling 60 credits -including internships, interdisciplinary seminars, and master thesis- and specialised courses to be chosen in one of the four following orientations:

- > Biostatistics and epidemiology
- > Health services management
- > Health systems policies and health promotion
- > Environmental health

The focus on health systems management offers three options: health services management, nursing unit management, and clinical nursing sciences.

## Bloc 1 | M-SAPUE | MA-SAPU

### Cours obligatoires

Coordinatrice : Catherine BOULAND

ENVI-F510	<b>Droit de l'environnement</b>   Chiara ARMENI (Coordinator) ⌚ 5 credits [lecture: 24h] 📅 first term 💬 French
ENVI-L4110	<b>Compartiments environnementaux, production, consommation et leurs impacts sur la santé</b>   Catherine BOULAND (Coordinator) and Valérie ROORYCK ⌚ 5 credits [lecture: 12h, practical work: 48h] 📅 second term 💬 French
ENVI-L4111	<b>Applications méthodologiques spécifiques à la santé environnementale</b>   Olivier VANDENBERG (Coordinator) and Christel Faes ⌚ 5 credits [lecture: 48h, practical work: 12h] 📅 second term 💬 French
SAPU-L4012	<b>Méthodes quantitatives en santé publique, y compris Démographie</b>   Bram VANHOUTTE (Coordinator) ⌚ 5 credits [lecture: 36h, tutorial classes: 24h] 📅 first term 💬 French
SAPU-L4013	<b>Méthodes qualitatives en santé publique</b>   Céline MAHIEU (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h, personal assignments: 12h] 📅 second term 💬 French
SAPU-L4021	<b>Problèmes de santé et environnement</b>   Catherine BOULAND (Coordinator), Yves COPPIETERS'T WALLANT and Philippe DONNEN ⌚ 5 credits [lecture: 36h, personal assignments: 24h] 📅 first term 💬 French
SAPU-L4022	<b>Facteurs socio-économiques, psychosociaux et promotion de la santé</b>   Céline MAHIEU (Coordinator), Isabelle GODIN and Sandra TRICAS-SAURAS ⌚ 5 credits [lecture: 36h, personal assignments: 24h] 📅 second term 💬 French
SAPU-L4023	<b>Politiques, systèmes et économie de la santé</b>   Philippe VAN WILDER (Coordinator) and Dimitri Renmans ⌚ 5 credits [lecture: 36h] 📅 first term 💬 French
SAPU-L4024	<b>Concepts et méthodes en santé publique</b>   Philippe DONNEN (Coordinator) and Isabelle GODIN ⌚ 5 credits [lecture: 48h, tutorial classes: 12h] 📅 first term 💬 French

### Module Développement durable et santé

*One course chosen from the following*

ENVI-D500 (optional)	<b>Epistémologie des pratiques environnementales</b>   Benoît TIMMERMANS (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 12h, cours global: 12h] 📅 second term 💬 French
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ENVI-F403  
(optional)

**Socio-environmental Dynamics** | Maria MANCILLA GARCIA (Coordinator)

⌚ 5 credits [lecture: 24h, practical work: 12h] 📅 first term 🗣 English

ENVI-F434  
(optional)

**Géohistoire des relations sociétés - environnement** | Jean-Michel DECROLY (Coordinator) and Chloé DELIGNE

⌚ 5 credits [lecture: 36h] 📅 first term 🗣 French

## Module population, environnement et santé

*One course chosen from the following*

ENVI-F452  
(optional)

**Environmental impact analysis and management** | Wouter ACHTEN (Coordinator)

⌚ 5 credits [lecture: 24h, practical work: 12h, project: 24h] 📅 first term 🗣 English/French

ENVI-F5002  
(optional)

**Psychologie de l'environnement, et de la communication** | Sabine POHL (Coordinator)

⌚ 5 credits [lecture: 24h] 📅 first term 🗣 French

*One course chosen from the following*

GEST-L5221  
(optional)

**Qualité des soins, sécurité des patients et gestion des risques** | Anne-Dominique PETIT (Coordinator) and Isabelle CAMBIER

⌚ 5 credits [lecture: 31h, tutorial classes: 5h, personal assignments: 24h] 📅 first term 🗣 French

GEST-L5232  
(optional)

**Fondements de la discipline infirmière (Ethique, déontologie, législation)** | Dan Lecocq (Coordinator)

⌚ 5 credits [lecture: 24h, tutorial classes: 12h, personal assignments: 24h] 📅 first term 🗣 French

GEST-L5310  
(optional)

**Gestion de l'information médicale** | Thierry Klein (Coordinator), Nancy ABBELOOS and Thérèse LOCOGE

⌚ 5 credits [lecture: 48h, personal assignments: 12h] 📅 first term 🗣 French

GEST-L5311  
(optional)

**Gestion architecturale des espaces dans les institutions de santé** | Marie-Pierre TOURNEUR (Coordinator)

⌚ 5 credits [lecture: 12h, tutorial classes: 12h, personal assignments: 36h] 📅 first term 🗣 French

GEST-L5316  
(optional)

**Evaluation des technologies de santé en milieu hospitalier** | Philippe VAN WILDER (Coordinator)

⌚ 5 credits [lecture: 12h, tutorial classes: 12h] 📅 second term 🗣 French

INFO-L402  
(optional)

**Logiciels d'analyse de données en santé** | Fati KIRAKOYA (Coordinator)

⌚ 5 credits [lecture: 18h, tutorial classes: 18h, personal assignments: 24h] 📅 second term 🗣 French

SAPU-L4122  
(optional)

**Du projet aux résultats** | Fati KIRAKOYA (Coordinator) and Ouindpanga Samadoulougou

⌚ 5 credits [lecture: 27h, personal assignments: 33h] 📅 second term 🗣 French

SAPU-L4123  
(optional)

**Géographie de la santé** | Fati KIRAKOYA (Coordinator)

⌚ 5 credits [lecture: 30h, tutorial classes: 30h] 📅 second term 🗣 French

SAPU-L4310  
(optional)

**Santé des populations et milieux de vie** | Isabelle GODIN (Coordinator) and Sandra TRICAS-SAURAS

⌚ 5 credits [lecture: 36h, personal assignments: 24h] 📅 second term 🗣 French

SAPU-L5312  
(optional)

**Vie finissante, santé communautaire : philosophies et religions** | Marc MAYER (Coordinator)

⌚ 5 credits [lecture: 24h] 📅 second term 🗣 French

SAPU-L5314  
(optional)

**Méthodes d'analyse exploratoire multidimensionnelle** | Bram VANHOUTTE (Coordinator)

⌚ 5 credits [lecture: 16h, tutorial classes: 16h, personal assignments: 12h] 📅 second term 🗣 French

SAPU-L8010  
(optional)

**Ergonomie** | Jean-Pierre REZETTE (Coordinator) and Nathalie Cock

⌚ 5 credits [lecture: 36h] 📅 second term 🗣 French

SAPU-L9011  
(optional)

**Risques en radiations ionisantes et radioprotection** | Jean-Louis GREFFE (Coordinator)

⌚ 5 credits [lecture: 24h, personal assignments: 36h] 📅 second term 🗣 French

TRAN-F201  
(optional)

**Introduction aux enjeux de la durabilité** | Wouter ACHTEN (Coordinator) and Chiara ARMENI

⌚ 5 credits [lecture: 24h] 📅 second term 🗣 French

# Master in Public Health

## Focus Environmental Health

### Bloc 2 | M-SAPUE | MA-SAPU

## Cours obligatoires

Coordinatrice : Catherine BOULAND

- ENVI-L504 **Risque toxicologique en santé au travail et environnementale**  
⌚ 5 credits [lecture: 24h, personal assignments: 36h] 📅 first term 🗨 French
- ENVI-L505 **Approches systémique, prévention et remédiation en santé environnementale** | Catherine BOULAND (Coordinator)  
⌚ 5 credits [lecture: 21h, project: 18h, personal assignments: 21h] 📅 first and second terms 🗨 French
- ENVI-L510 **Stages - Santé environnementale, y compris les séminaires transversaux** | Catherine BOULAND (Coordinator)  
⌚ 10 credits [seminars: 12h, work placement: 168h, personal assignments: 120h] 📅 second term 🗨 French
- MEMO-L503 **Mémoire - Santé environnementale** | Isabelle GODIN (Coordinator), Catherine BOULAND and Philippe DONNEN  
⌚ 15 credits [lecture: 12h, tutorial classes: 12h] 📅 academic year 🗨 French

### Module population, environnement et santé

- ENVI-L5210 **Nuisances intérieures, extérieures, contaminants de l'environnement et sécurité sanitaire** | Fabrice THIELEN (Coordinator), Olivier DENIS, Olivier MICHEL and Olivier VANDENBERG  
⌚ 5 credits [lecture: 48h, tutorial classes: 12h] 📅 first term 🗨 French
- ENVI-L5211 **Etudes de cas : urbanisme, aménagement du territoire, environnement et santé** | Catherine BOULAND (Coordinator)  
⌚ 5 credits [practical work: 12h, seminars: 15h, personal assignments: 33h] 📅 first term 🗨 French

### Module Travailleurs, environnement et santé

- SAPU-L8012 **Techniques** | Catherine BOULAND (Coordinator)  
⌚ 5 credits [lecture: 24h, personal assignments: 36h] 📅 second term 🗨 French

*A total of ten credits chosen from the following*

- GEST-L5221 (optional) **Qualité des soins, sécurité des patients et gestion des risques** | Anne-Dominique PETIT (Coordinator) and Isabelle CAMBIER  
⌚ 5 credits [lecture: 31h, tutorial classes: 5h, personal assignments: 24h] 📅 first term 🗨 French
- GEST-L5232 (optional) **Fondements de la discipline infirmière (Ethique, déontologie, législation)** | Dan Lecocq (Coordinator)  
⌚ 5 credits [lecture: 24h, tutorial classes: 12h, personal assignments: 24h] 📅 first term 🗨 French
- GEST-L5310 (optional) **Gestion de l'information médicale** | Thierry Klein (Coordinator), Nancy ABBELOOS and Thérèse LOCOGE  
⌚ 5 credits [lecture: 48h, personal assignments: 12h] 📅 first term 🗨 French
- GEST-L5311 (optional) **Gestion architecturale des espaces dans les institutions de santé** | Marie-Pierre TOURNEUR (Coordinator)  
⌚ 5 credits [lecture: 12h, tutorial classes: 12h, personal assignments: 36h] 📅 first term 🗨 French
- GEST-L5316 (optional) **Evaluation des technologies de santé en milieu hospitalier** | Philippe VAN WILDER (Coordinator)  
⌚ 5 credits [lecture: 12h, tutorial classes: 12h] 📅 second term 🗨 French
- INFO-L402 (optional) **Logiciels d'analyse de données en santé** | Fati KIRAKOYA (Coordinator)  
⌚ 5 credits [lecture: 18h, tutorial classes: 18h, personal assignments: 24h] 📅 second term 🗨 French
- SAPU-L4122 (optional) **Du projet aux résultats** | Fati KIRAKOYA (Coordinator) and Ouindpanga Samadoulougou  
⌚ 5 credits [lecture: 27h, personal assignments: 33h] 📅 second term 🗨 French
- SAPU-L4123 (optional) **Géographie de la santé** | Fati KIRAKOYA (Coordinator)  
⌚ 5 credits [lecture: 30h, tutorial classes: 30h] 📅 second term 🗨 French

SAPU-L4310 (optional)	<b>Santé des populations et milieux de vie</b>   Isabelle GODIN (Coordinator) and Sandra TRICAS-SAURAS ⌚ 5 credits [lecture: 36h, personal assignments: 24h] 📅 second term 🗨 French
SAPU-L5312 (optional)	<b>Vie finissante, santé communautaire : philosophies et religions</b>   Marc MAYER (Coordinator) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 French
SAPU-L5314 (optional)	<b>Méthodes d'analyse exploratoire multidimensionnelle</b>   Bram VANHOUTTE (Coordinator) ⌚ 5 credits [lecture: 16h, tutorial classes: 16h, personal assignments: 12h] 📅 second term 🗨 French
SAPU-L592 (optional)	<b>Compléments au stage</b> ⌚ 5 credits [work placement: 60h, personal assignments: 60h] 📅 second term 🗨 French
SAPU-L8010 (optional)	<b>Ergonomie</b>   Jean-Pierre REZETTE (Coordinator) and Nathalie Cock ⌚ 5 credits [lecture: 36h] 📅 second term 🗨 French
SAPU-L9011 (optional)	<b>Risques en radiations ionisantes et radioprotection</b>   Jean-Louis GREFFE (Coordinator) ⌚ 5 credits [lecture: 24h, personal assignments: 36h] 📅 second term 🗨 French
TRAN-F201 (optional)	<b>Introduction aux enjeux de la durabilité</b>   Wouter ACHTEN (Coordinator) and Chiara ARMENI ⌚ 5 credits [lecture: 24h] 📅 second term 🗨 French