



Master in Public Health

Focus Epidemiology and biostatic

MA-SAPU | M-SAPUB | 2024-2025

This formation is organized in flexible hours.

The 2024-2025 programme is subject to change. It is provided for information purposes only.

Programme mnemonic

MA-SAPU

➤ Focus *Epidemiology and biostatic* : M-SAPUB

Exists also in

- Focus *Environmental Health* : M-SAPUE
- 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 assess community (locally or at a higher level) health needs,

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



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

 Fati.Kirakoya@ulb.be

Jury Presidents

Fati KIRAKOYA (Epidemiology and biostatic) and Philippe VAN WILDER (Epidemiology and biostatic)

Jury Secretary

Céline Mahieu



Master in Public Health

Focus Epidemiology and biostatic

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-SAPUB | MA-SAPU

Cours obligatoires

Coordinatrice de la finalité: Fati KIRAKOYA

INFO-L402	Logiciels d'analyse de données en santé Fati KIRAKOYA (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h, personal assignments: 12h] 📅 second term 🗨 French
SAPU-L4012	Méthodes quantitatives en santé publique, y compris Démographie Bram VANHOUTTE (Coordinator) ⌚ 5 credits [lecture: 36h, tutorial classes: 24h] 📅 first term 🗨 French
SAPU-L4013	Méthodes qualitatives en santé publique Céline MAHIEU (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h, personal assignments: 12h] 📅 second term 🗨 French
SAPU-L4021	Problèmes de santé et environnement Olivier VANDENBERG (Coordinator), Yves COPPIETERS'T WALLANT and Philippe DONNEN ⌚ 5 credits [lecture: 36h, personal assignments: 24h] 📅 first term 🗨 French
SAPU-L4022	Facteurs socio-économiques, psychosociaux et promotion de la santé Céline MAHIEU (Coordinator) and Sandra TRICAS-SAURAS ⌚ 5 credits [lecture: 36h, personal assignments: 24h] 📅 second term 🗨 French
SAPU-L4023	Politiques, systèmes et économie de la santé Dimitri Renmans (Coordinator) and Elisabeth PAUL ⌚ 5 credits [lecture: 36h] 📅 first term 🗨 French
SAPU-L4024	Concepts et méthodes en santé publique Philippe DONNEN (Coordinator) ⌚ 5 credits [lecture: 48h, tutorial classes: 12h] 📅 first term 🗨 French
SAPU-L4118	Analyse approfondie des données de santé Bram VANHOUTTE (Coordinator) ⌚ 10 credits [lecture: 55h, tutorial classes: 45h, personal assignments: 20h] 📅 second term 🗨 French
SAPU-L4119	Etudes d'intervention en santé Katia CASTETBON (Coordinator), Yves COPPIETERS'T WALLANT and Philippe DONNEN ⌚ 5 credits [lecture: 48h, tutorial classes: 12h, personal assignments: 36h] 📅 second term 🗨 French
SAPU-L4122	Du projet aux résultats Fati KIRAKOYA (Coordinator) and Ouindpanga Samadoulougou ⌚ 10 credits [lecture: 38h, tutorial classes: 6h, personal assignments: 76h] 📅 second term 🗨 French

Master in Public Health

Focus Epidemiology and biostatic

Bloc 2 | M-SAPUB | MA-SAPU

Cours obligatoires

Coordinatrice de la finalité : Fati KIRAKOYA

- MEMO-L501 **Mémoire - Epidémiologie & biostatistique** | Fati KIRAKOYA (Coordinator) and Philippe DONNEN
⌚ 15 credits [lecture: 12h, tutorial classes: 12h] 📅 academic year 🗨 French
- SAPU-L5216 **Application des méthodes quantitatives dans les questions prioritaires de santé** | Yves COPPIETERS'T WALLANT (Coordinator), Katia CASTETBON, Philippe DONNEN and Olivier VANDENBERG
⌚ 10 credits [lecture: 30h, tutorial classes: 30h, personal assignments: 60h] 📅 first term 🗨 French
- SAPU-L591 **Stages - Epidémiologie & Biostatistiques, y compris les séminaires transversaux** | Fati KIRAKOYA (Coordinator)
⌚ 10 credits [seminars: 12h, work placement: 168h, personal assignments: 120h] 📅 second term 🗨 French
- STAT-L5215 **Analyse du changement et des données groupées** | Fati KIRAKOYA (Coordinator), Yves COPPIETERS'T WALLANT and Bram VANHOUTTE
⌚ 10 credits [lecture: 56h, tutorial classes: 24h, personal assignments: 20h] 📅 first term 🗨 French

A total of 15 credits chosen from the following

- ENVI-F5002 (optional) **Psychologie de l'environnement, et de la communication** | Sabine POHL (Coordinator)
⌚ 5 credits [lecture: 24h] 📅 first term 🗨 French
- ENVI-L5211 (optional) **Etudes de cas : urbanisme, aménagement du territoire, environnement et santé** | Olivier VANDENBERG (Coordinator)
⌚ 5 credits [practical work: 12h, seminars: 15h, personal assignments: 33h] 📅 first term 🗨 French
- 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**
⌚ 5 credits [lecture: 12h, tutorial classes: 12h] 📅 second term 🗨 French
- SAPU-L4123 (optional) **Géographie de la santé** | Fati KIRAKOYA (Coordinator) and Ouindpanga Samadoulougou
⌚ 5 credits [lecture: 30h, tutorial classes: 30h] 📅 second term 🗨 French
- SAPU-L4310 (optional) **Santé des populations et milieux de vie** | Sandra TRICAS-SAURAS (Coordinator)
⌚ 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**
⌚ 5 credits [lecture: 16h, tutorial classes: 16h, personal assignments: 12h] 📅 second term 🗨 French

SAPU-L592
(optional)

Compléments au stage | Olivier VANDENBERG (Coordinator)

⌚ 5 credits [work placement: 60h, personal assignments: 60h] 📅 second term 🗣️ French

SAPU-L8010
(optional)

Ergonomie | Jean-Pierre REZETTE (Coordinator), Nathalie Cock and Sophie HANON DE LOUVET

⌚ 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, project: 24h] 📅 second term 🗣️ French