




# **European Master in Public Health EUROPUBHEALTH+**

## **Specialization: Environmental and Occupational Health Sciences**

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**EHESP School of Public Health  
MSH Paris Nord  
20 avenue George Sand  
93200 La Plaine-St-Denis  
FRANCE**

## **European Master in Public Health (Europubhealth+) Environmental and Occupational Health Sciences**

The present document details the content of the second year specialization of the **Europubhealth+** programme delivered in Paris by the EHESP School of Public Health. For the first year of the Europubhealth+ programme, a foundation course with the core competences in public health is delivered at the University College Dublin (Ireland) or the University of Sheffield (United Kingdom) in English, at the Andalusian School of Public Health - University of Granada (Spain) in Spanish, or at the University of Liège (Belgium) in French.

### **I. PRESENTATION**

The specialization course lasts two semesters and students get 30 ECTS for taught modules and 27 ECTS for the dissertation work and related placement (A 4-month practical placement is mandatory during semester 2). A mandatory EPH+ Joint Integration module worth 3 ECTS is organized by the EHESP School of Public Health in Rennes (France) at the end of the academic year.

The specialisation provides students and young professionals wishing to design their career in public health with high level of qualification which enhances intellectual approach to the subject. It offers basic and advanced schemes of study involving knowledge, skills and techniques which can variously be applied to different public health issues and in the context of health services agencies or health & environmental organizations in the public or private sector, in developed or developing countries. The specialisation is both a professional qualification and a contributor to generic skills in research. It provides traditional core courses and options with an innovative approach to developing public health agendas in different contexts including crisis situations. The international teaching staff comprises outstanding lecturers from European & North American universities and research institutions.

In general, the EOHS specialisation aims to train professionals to identify risks run by the general population en large, consumers or workers exposed to nuisances and hazardous agents, and to propose measures designed to abate exposures and health impacts. It embraces a broad range of disciplines and viewpoints (from individual vulnerability factors to public policies) in order to stimulate the students' capacity to develop a consistent and cross-cutting problem solving approach.

### **II. QUALIFICATIONS OF THE GRADUATE**

The aim of the specialisation is to train young professionals to identify health problems of a population, analyze the resources needed to preserve and improve population health, and progressively become a new generation of decision makers in health. To achieve this, the EHESP pedagogy stresses an inter-disciplinary approach, consisting in placing students in realistic problem contexts from which they utilize various professional skills and methodologies. The course encourages a degree of specialisation according to the students' career objectives

Graduates of the EOHS specialisation are able to:

- Apply analysis skills and techniques to assess and understand an environmental or occupational health problem
- Discuss the basic biological concepts that allow to identify the hazardous potency of chemical, physical or (micro)biological agents and to evaluate the exposure-response relationships
- Describe the principles of exposure and risk assessment for nuisances and hazards related to the environment or to occupational settings
- Discuss various risk management and risk communication approaches in relation to issues of environmental or occupational hazards and nuisances.

### **III. REQUIREMENTS FOR GRADUATION**

In order to graduate, students must get an overall average of at least 10/20 to obtain all mandatory credits of the second year specialization. Students must also pass all mandatory credits during the first year of the programme in the partner university (Dublin, Sheffield, Granada or Liège) as well as both joint integration modules organized at EHESP in Rennes.

**STUDY PLAN**  
**Environmental and Occupational Health Sciences**

Name of the subject	Class form	M/ F	Credit form	Teaching hours	ECTS
<b>Mandatory modules</b>					<b>24</b>
Advanced Core module- Environmental and Occupational Health Sciences <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-206-2019.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-206-2019.pdf</a>	Lecture Homework	M	Mark	30	3
The control of Environmental Infectious Diseases <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-module-216-novembre-2019.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-module-216-novembre-2019.pdf</a>	Lecture In class exercise	M	Mark	30	3
GIS and Environmental Health <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Major-233-2019-2020.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Major-233-2019-2020.pdf</a>	Lecture & lab Group work	M	Mark	30	3
Impact Assessment in Environmental Health <a href="https://mph.ehesp.fr/wp-content/uploads/2019/05/Syllabus-EOHS-Minor-217-2019-2020.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/05/Syllabus-EOHS-Minor-217-2019-2020.pdf</a>	Lecture & lab Discussion	M	Mark	30	3
Critical windows of exposures and vulnerability <a href="https://mph.ehesp.fr/wp-content/uploads/2018/07/Syllabus-234-2018-2019.pdf">https://mph.ehesp.fr/wp-content/uploads/2018/07/Syllabus-234-2018-2019.pdf</a>	Lecture & lab Case study	M	Mark	30	3
Advanced Core module- Epidemiology <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Module-203Epi-2019-2020.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Module-203Epi-2019-2020.pdf</a>	Lecture Dicussion Case study	M	Mark	30	3
Advanced Planetary Health <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-total-Major-232.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-total-Major-232.pdf</a>	Lecture	M	Mark	30	3
Advanced Core module- Biostatistics <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Biostatistics-Minor-218-2019-2020.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Biostatistics-Minor-218-2019-2020.pdf</a>	Lecture Exercise	M	Mark	30	3

<a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus_Core_ISB_204-2019.pdf">content/uploads/2019/06/Syllabus_Core_ISB_204-2019.pdf</a>	Project based learning				
<b>2 elective modules</b> to be chosen among :					<b>6</b>
Infectious Disease Epidemiology <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Module-Minor-210_2019.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Module-Minor-210_2019.pdf</a>	Lecture Discussion Exercise		Mark	30	3
Design and Methods in Epidemiology <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Module-223_2019_2020.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Module-223_2019_2020.pdf</a>	Lecture & lab Group work		Mark	30	3
Spatial statistical analysis <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus_Major231_2020.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus_Major231_2020.pdf</a>	Lecture		Mark	30	3
Minor A ISB Multidimensional & multivariate statistical methods <a href="https://mph.ehesp.fr/wp-content/uploads/2019/08/Minor214_Syllabus_2019-2020.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/08/Minor214_Syllabus_2019-2020.pdf</a>	Lecture Discussion Computer lab Conference		Mark	30	3
<b>SUPRA OPTIONAL modules:</b>		F	Pass/Fail		Not credited
Advanced core module in Social & Behavioural Sciences <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Short-Description-of-Minors-and-Majors-in-SBSPH.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Short-Description-of-Minors-and-Majors-in-SBSPH.pdf</a>					
Advanced core module in Health Policy and Management <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Short-description-of-Minors-and-Majors-MHPS.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Short-description-of-Minors-and-Majors-MHPS.pdf</a>					
Humanitarian Health in Crisis Situation <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus_major235_HH-and-crisis-situation-DEC-2019.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus_major235_HH-and-crisis-situation-DEC-2019.pdf</a>					
Health policies and health system analysis in Low & Middle Income Countries (LMIC) <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Major-227-2019-2020-draft.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-Major-227-2019-2020-draft.pdf</a>					
Decision analysis in Public Health <a href="https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-SBSPH-Major-220-v2019-3june.pdf">https://mph.ehesp.fr/wp-content/uploads/2019/06/Syllabus-SBSPH-Major-220-v2019-3june.pdf</a>					
(...)					
Dissertation and placement	-	M	Mark	-	<b>27</b>
Integration Module (at EHESP in Rennes – France)	Seminar	M	Mark	30	<b>3</b>

F – facultative, M – mandatory to graduate

Total number of teaching hours: 300

Total number of ECTS: 60

➔ For full description of each module and overall planning, please click on each link in the table above or go to: <https://mph.ehesp.fr/year-2/>