



Session 2.2 – One Health Curriculum
OHSEA Capitalisation Colloquium
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One Health Training Courses

French School of Veterinary Services VetAgro Sup

One Health Training programmes

Initial training

- Master's Degree in political :Food Policy and Health Risk Management : the contribution of qualitative approach and case studies - for vet and agricultural students
- Master's Degree One Health : sociology and economics, epidemiology, food system
- Faculty of Medicine

Continuous training for an increasingly large audience

- One Health in Practice Diploma : A reflection on the values and norms of public health from concrete situations (public health dilemmas)
- French One Health Institute

International Training Courses

- *Courses* : Sociology of Inspection, One Health, AMR, Leadership...
- Partnerships : University of Mexico, South East Asia tomorrow ?

Civil Society

- One Health Mural : the contribution of political science

ONE HEALTH DIPLOMA IN FRANCE

VARIOUS ACTIVITIES

- ❖ **Team Work** : emerging risks, wildlife, sanitary crises, antimicrobial resistance, public policies, agroecological transition.
- ❖ **Stakeholder Mapping**
- ❖ **International Partnerships** : French Development Agency, OIE, WHO
- ❖ **Field Trips** : Visits to farms...
- ❖ **Conferences**
- ❖ **Online education**
- ❖ **Mentorship**

STUDENT BENEFITS

-  Animation of an interdisciplinary network
-  Individual coaching - Career Reorientation
-  Writing and publication of an article in the professional press

DIPLOMA IN PRACTICE

1 semester blended program (including 3 face to face weeks)

Animal Health, Human Health, Conservation

Advocacy for new public policies

Management of public health issues

Interdisciplinary and intersectoral actions

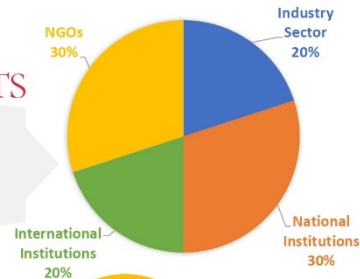
Contribution of Human and Social Science, Economics

RICH POOL OF EXPERTS

60 academics and experts

Mentor of the students in 2019 :
Serge Morand, *PhD, Health Ecologist*
CNRS-CIRAD

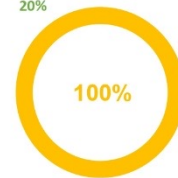
PROFESSIONAL BACKGROUNDS OF THE SPEAKERS



Recommended by participants



Professional added value of the course



Students satisfied by Human and Social Sciences and Economics

A DIGITAL PLATFORM

- ❖ Bibliographic Resources
- ❖ Online work between sessions
- ❖ Networking and coaching

Master 2 international

MSc Public Health international elective course One Health : Managing Health of Populations

Course management team : Florence Ayrat, Amandine Gautier,
Sylvie Mialet, Thibaud Porphyre



Course design manager: Chloé-Louise Morbois

Assistant : Isabelle Bosinco-Quiblier

To apply : <https://ecandidat.univ-lyon1.fr/>



MSc Public Health international elective course : *One Health* Managing Health of Populations

BACKGROUND

Implementing robust and efficient measures to prevent and control hazards in crisis and non-crisis situations is challenging, as it requires a broad appreciation of the consequences that each decision and action may have on humans, animals and ecosystems. The One Health concept is a transdisciplinary approach, aiming to better analyse complex health issues and develop appropriate responses. By taking into account the interconnections between people, animals, plants and their shared environment, it provides a holistic understanding of critical health situations.

This Master's degree provides the necessary skills for students and professionals wishing to work or to further advance their career within the human, animal and ecosystem health sectors, whether they wish to be or are currently involved in organisations, institutions or industries at local, national or international level.

OBJECTIVES

This course aims at acquiring **transdisciplinary skills** and **their application** in solving complex health problems. Students will be exposed to the key disciplines of the One Health approach (e.g. epidemiology, socio-economics, ecology, decision theory, international governance) at an intermediate or advanced level, in order to acquire the **specific languages** and a **thorough understanding** of the assessment, decision and action mechanisms at play. Students will apply their acquired knowledge and skills to case studies and role-playing exercises in which they will have to evaluate, decide and act upon complex health issues within the One Health framework.

ENTRY REQUIREMENTS

Subject to approval by the selection committee:

The programme is mainly intended for high-calibre students with a scientific background.

Students must hold a first year Master's degree (M1) or a national/international equivalent degree in the following disciplines: medicine, pharmacy, veterinary medicine, economy, biological science, ecosystem health, life sciences, social sciences.

This programme is also intended for working professionals and for those currently seeking work to support their professional development plan. These candidates must justify significant professional experience in the aforementioned disciplines: e.g. official veterinarians, medical doctors, pharmacists, health executives, directors of health care establishments, quality and risk managers.

PROGRAMME STRUCTURE

SEMESTER 3 : 30 ECTS

Core curriculum (24 ECTS)

- Health and environment. 3 ECTS.
- Economics and Politics. 6 ECTS.
- International standards and One Health. 3 ECTS.
- Risk assessment. 6 ECTS.
- Case study. 3 ECTS.
- Decision-making in complex situations and communication. 3 ECTS.

Option: Two orientations (6 ECTS)

Orientation 1: Evaluating risk for decision

- Risk in complex system. 3 ECTS.
- Role of uncertainty on risk. 3 ECTS.

Orientation 2: Risk management

- Advanced economics. 3 ECTS.
- Crisis management and decision making. 3 ECTS.

SEMESTER 4 : 30 ECTS

Professional internship in a research, industrial or institutional organisation. Technical dissertation or scientific article with an oral examination. 30 ECTS.

PROGRAMME DESCRIPTION

The programme is delivered **entirely in English** and over a one-year period. The programme begins in September with lectures, tutorials and group activities running full-time over the course of 4 months. The course structure will depend on the student's chosen orientation.

A 4- to 6-month internship is required and is under the responsibility of the internship supervisor. The supervisor and subject of the internship should be approved by the Master's pedagogical committee beforehand.

Evaluation of the work carried out by trainees during their internship can take various forms: e.g. poster, oral and digital communication, scientific article, internship dissertation and defence.

CAREER OPPORTUNITIES

Career opportunities may include all types of health professionals involved in risk assessment or risk management. Some examples are given below:

- > Consultants and experts : for ministry or departments in charge of health, agriculture, livestock development and animal health and welfare; for health risk assessment agencies; within environmental and pharmaceutical companies; for research and development offices.
- > Senior level scientists for the assessment of public and veterinary public health within agricultural organisations, farmers associations, national and international institutions, as well as non-profit organizations.
- > Research managers within environmental and pharmaceutical companies and development offices.
- > Researchers in the field of epidemiology, zoonosis, animal and human Health (after acquiring a PhD).



The French One Health Institute. Education, Expertise and Policy



**ONE
HEALTH
INSTITUTE**

ENSV-FVI VetAgro Sup (Vet Studies), EHESP (Public Health), AgroParisTech (Agricultural Studies)

- Take part in the emergence of a Europe of Health
 - Creativity to address multi-faceted problems
 - Choose a comprehensive approach to prevention, Crises Management (involving complex pbs) and Democracy
- Training public and private decision-makers (after the Covid-19 pandemics) : The OH Graduate Programme
- Training Programmes and Updates : MasterClass, Team Projects, Field Work...
- An innovative methodology to meet OH challenges and provide concrete solutions

One Health in practice

A practical knowledge of the interactions between humans, animals and their environments

An appreciation of diversity and the determinants of health

An ability to inform and implement future health practice and policy, using systems thinking, creativity, communication and collaboration

<https://youtu.be/TAhqKeHwRTo>



One Health Collage

RÉPUBLIQUE
FRANÇAISE
*Liberté
Égalité
Fraternité*

VetAgro Sup

Querceo
CAP SUR DEMAIN

The One Health Collage



4 steps to have a better understanding of the links between human health, animal health and ecosystemic health, and thus reduce the environmental and societal aftermath of our activities.

This pedagogical tool allows the player to discover interconnexions between the 3 health levels and identify crucial actors to dialog with, in order to overcome the obstacles threatening a One Health policy implementation.

1

Logical Thinking

Build the Collage and make the most compelling connections



Collage workshops are **playful**, collaborative, **science based**, creative and **visual**

2

Restitution

Resume the collage content and dialog time between all participants



Unlimited number of participants / **8 players max** per table

3

Study Case

Put into practice the recently acquired knowledge in a role play game or a study case on a concrete social issue



One Shot workshop, training and coaching, intern deployment

4

Debriefing

Discussion and conclusion about implementing a One Health approach



Timing about 3h



Remote or face-to-face workshops

OH Mural : The contributions of the social sciences

1. The very conception of the Mural : this cyclical and not at all deterministic vision (unlike the climate fresk)
2. The brakes and levers cards, which really add complexity, and allow us to reflect on the role of social determinants, the place of science and expertise, knowledge, power relations between social groups, etc.
3. The role-playing game and the small dialogue that we propose according to the case studies to think about the conditions of this negotiation, which is also and above all a conflict

How did we get here?

A field of research on infectious diseases and health management

1. Veterinary public health, food safety and the sociology of inspection, sociology of the agri-food industry; The veterinary profession: network, practices (AMU), animal health; Health/Biodiversity
 2. Analysis of public policies and foresight
 3. A 'bottom-up' approach to One Health : Documenting practices that give meaning and content to the watchword
- Interface and network sciences

AMR : Insights from social science

- Postdoc Fellow in a European H2020 project, with a dozen European countries + Mozambique and Vietnam
- AMR : not just a medical problem
- In the past 15 years, social science research has generated substantial knowledge about the systemic causes of antimicrobial resistance
- AMR is only surmountable through efforts that consider social, political and economic factors
- The real work of farmers and vets, the knowledge they use, their daily constraints...
- Sociologists of public action show the importance of framing problems in their treatment by public action : In France how antibiotic resistance has become a problem of use in the 2010s.
- The use of antibiotics =
 - a public health problem
 - an animal health problem
 - an environmental problem
 - a research and innovation problem
 - a professional problem
 - an agricultural production problem
 - an economic problem
 - an institutional problem

Regarding One Health ...

- Three narratives : OH as a response to global health challenges; OH as a resolution of tensions between international organizations; OH as a vector for veterinary leadership
- One Health versus Agroecology ?
- The One Health approach, by becoming institutionalised, paradoxically makes the competition between institutions (who is driving environmental health?), the cultural and ideological differences, and finally the boundaries between the sectors and disciplines of public health more visible
- The limits of the systemic approach, the uncertainty of knowledge, possibly in competition
- A negotiation of this political order in practical : A critique of governance or "business as usual" or simply a challenge to the monopoly of a profession
- A new paradigm for health policy : Does its message address the identified shortcomings of public health - an overly biological and epidemiological view, and not sufficiently social and political view on the one hand, and management that focuses on controlling the circulation of the virus and neglects its causes, on the other?
- The implementation of One Health can only be paradoxical: an opportunity to rethink the values of public health, by questioning the expertise on which it is based and debating on public health priorities

Conclusion : The bio-socio-anthropological quality of the human being, at once individual, society and biology

- Interdisciplinarity and plurality of knowledge
- An ideal of integration of public policies
- However, a number of legal and regulatory obstacles
- The One Health approach, by highlighting this continuum between the three aspects of global health, also questions their conflicts and what matters most
- The concrete implications of this renewal of a myth of collective and professional action aimed at more integrative and transversal approaches: The complex thinking proposed by the One Health concept requires us to analyse concrete situations and to put these hierarchies to the test of global thinking

Looking forward to working with you !

- One Health lectures webinar
- Practices Exchange
- Internships, ...

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