

Environmental pollution, health and the Biosphere – UP

Niveau d'étude # ECTS crédits # Période de l'année
Master 2 Autumn

En bref

- # Langue(s) d'enseignement: English
- # Méthode d'enseignement: On site
- # Forme d'enseignement : Lecture

Présentation

DESCRIPTION

Short Description :

This course aims to provide an overview of the interactions taking place between chemicals and living organisms.

Long description :

- * * This course at the interphase between biology and chemistry, aims to provide an overview of the interactions taking place between chemicals and living organisms. This UE is thus an introduction to the study of the impact of anthropogenic and natural pollution on living organisms, including the human body. It will replace molecules and their characteristics in a more global context of interaction with the environment. In particular, the impact and distribution of chemicals between the environmental media biota, air, water, and soil/sediment will be discussed based on their physical and chemical properties. The fate and

behavior of pollution in the different environment (air, water, soil) will be studied. In particularly the source, fate and impact of some pollutants (as pesticides, microplastics...) will be studied. Some examples of human impacts on air or water resources will also presented as smog, ozone layer, global climate change, ocean acidification ...

Also a part of this course will address the use of microorganisms in the context of bioremediation for the removal of organic pollutants.

- * **Duration (weeks):** 7 weeks + postponed exam
- * **Number of hours per week** : total 16h (sometimes 4h - sometimes 0)

PRÉ-REQUIS NÉCESSAIRES

Prerequisites (language, special knowledge, other courses, BA MA) :

Basic knowledge in cell biology, physical and chemical properties as well as chemical reactivity of chemicals are required to understand the course content.

CONTRÔLE DES CONNAISSANCES

Assessment methods (exams), prerequisites for exams :

Final exam (60%), Research Presentation assignment (40%)

Pour en savoir plus, rendez-vous sur > u-paris.fr/choisir-sa-formation

En bref

CONTACTS

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Name of the lecturer

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EN SAVOIR PLUS

<https://master-frontiers-in-chemistry.fr/admission/>

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