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M2 Toxicologie environnement santé

Master's degree
Specialisation Nutrition and Food Science
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
French

The M2 Toxicology Exposome Health course is an environmental toxicology course. It provides a solid foundation for understanding the mechanisms of action of pollutants and assessing their impacts on health, while also addressing regulatory aspects.

The programme comprises compulsory teaching units and units chosen from a list of teaching units offered by the M2 TES, as well as a project (case study analysis for the ‘Professional’ stream or research project for the ‘Research’ stream), supplemented by a 6-month internship (in a company or research laboratory).

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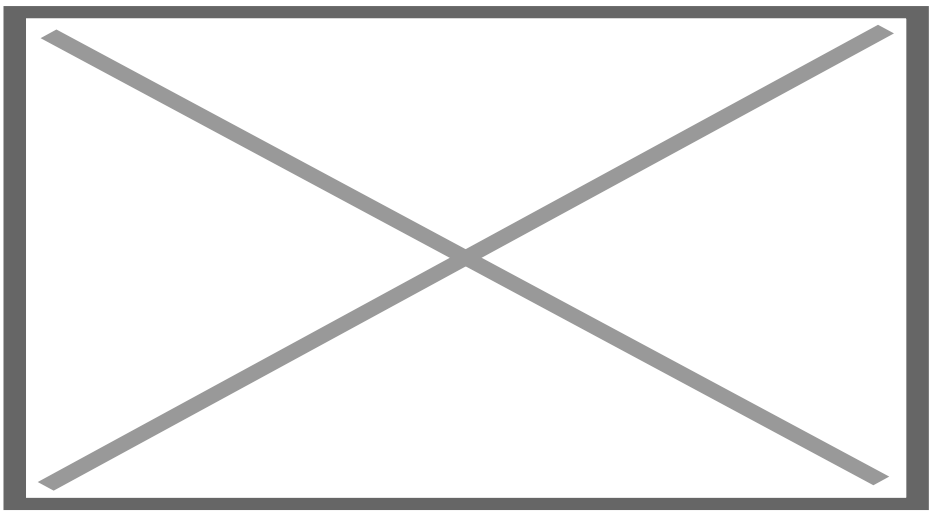

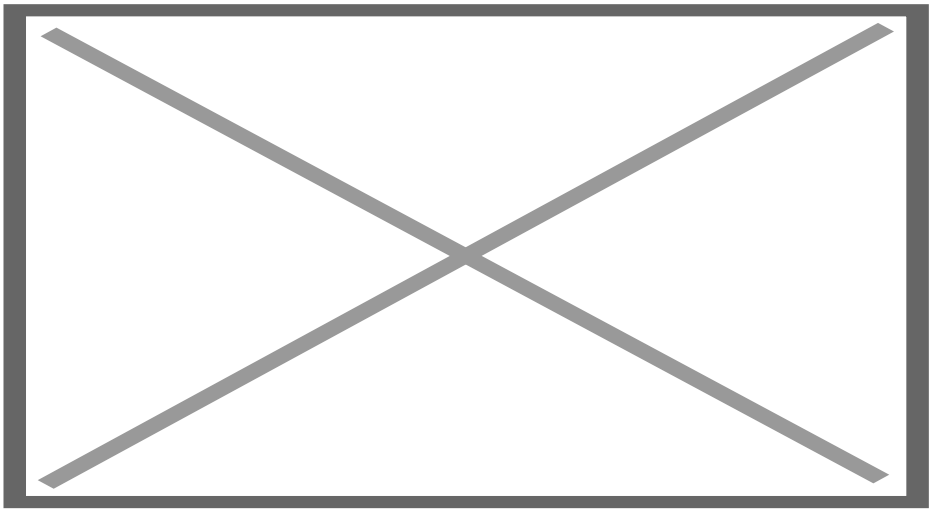

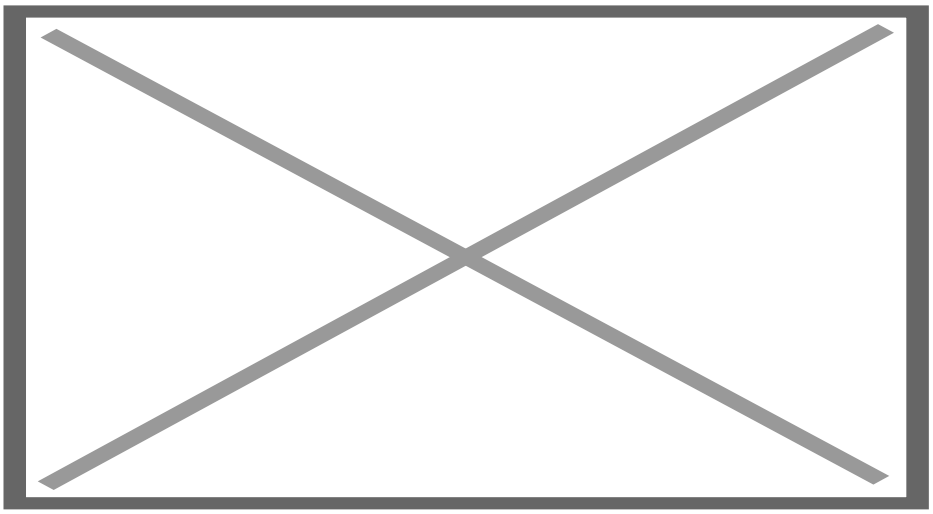

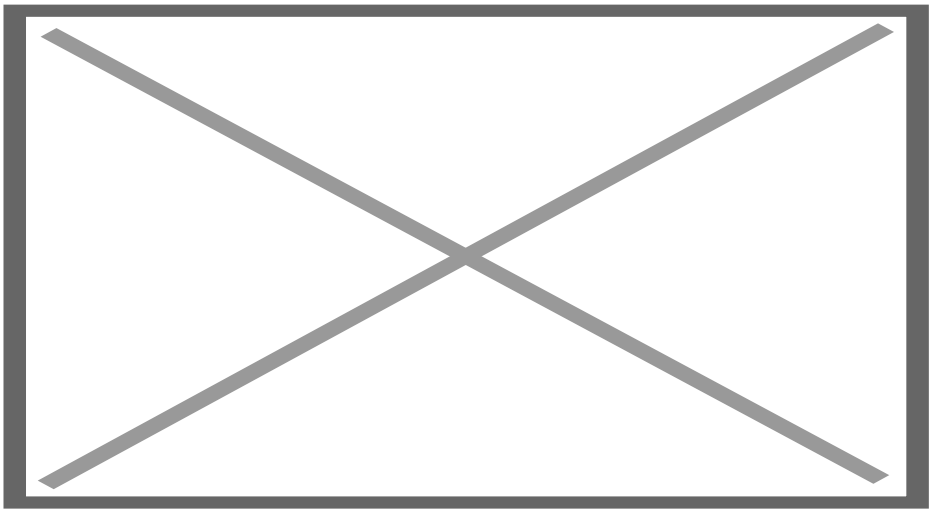

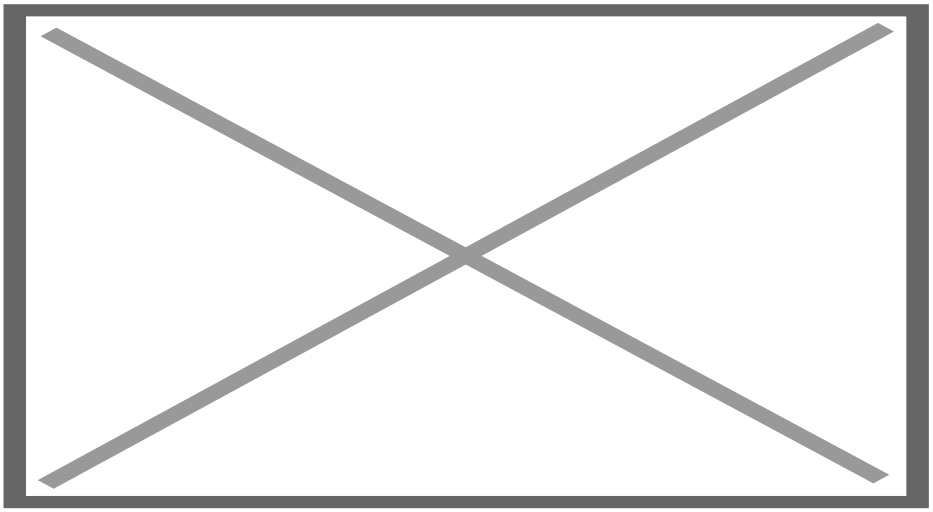

Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

Comprehensively interpret current concerns in toxicology and safety (drug and cosmetic safety, air and water quality, food quality, work environments) in order to address challenges related to human health while respecting the environment.

Objectives

The specialisation in toxicology, exposome and health (TES) aims to train students from different backgrounds (biologists, doctors, pharmacists, veterinarians, agricultural engineers, environmental engineers and chemists) as well as professionals. The main objective is training in the field of environmental toxicology:
• Study of human exposure to environmental pollutants present in the atmosphere, water, food or in the workplace;
• Understanding their mechanisms of action, identifying health impacts, environmental epidemiology, predictive toxicology and environmental health risk assessment.

Débouchés

Further Study Opportunities

PhD thesis

Admission

Capacity

Available Places

6

Target Audience and Entry Requirements

Access to the M2 TES programme for scientists is preferably via the M1 programme in toxicology and ecotoxicology at the University of Paris. However, students from the ‘Cell Biology, Physiology, Pathology’ programme at the University of Paris, ‘Science, Technology and Health’ at the University of Paris, ‘Biology, Health’ or ‘Environmental Science and Engineering’ at Paris-Est Créteil, and ‘Food and Bioproducts, Nutrition and Health’ at AgroParisTech, or any other master's programme that allows them to meet the prerequisites, may also apply. Medical students, particularly those specialising in occupational medicine, may be admitted to the M2 TES programme provided they also meet certain prerequisites. The prerequisites cover the following areas:
• metabolism and transport of xenobiotics and pharmacokinetics;
• analytical chemistry;
• histology and morphology;
• molecular biology;
• cell biology;
• macromolecular targets of xenobiotics;
• cellular stress;
• concepts of statistics and epidemiology;
• concepts of basic physiology (organs, development, interactions between organs). If necessary, students will be required to take a compulsory refresher course at the beginning of the year in order to meet these prerequisites.

Période(s) de candidature

Inception Platform

From 07/04/2026 to 29/05/2026

Supporting documents

Compulsory supporting documents

Motivation letter.

All transcripts of the years / semesters validated since the high school diploma at the date of application.

Certificate of English level.

English language level B1 (IELTS : score 4/5 ; TOEIC : score 550/760 ; TOEFL IBT : score 42/71). In the absence of official proof, level B1 certificate issued by the English teacher or transcript specifying level B1.

Certificate of French (compulsory for non-French speakers).

Level B2 : Non native french speakers, a knowledge certificate issued by the French Embassy or a French language center. Students holding a French diploma or a diploma instructed in French are exempt from that obligation.

Curriculum Vitae.

Detailed description and hourly volume of courses taken since the beginning of the university program.

Additional supporting documents

Referring contact information (compulsory for non-international applicants).

VAP file (obligatory for all persons requesting a valuation of the assets to enter the diploma).

Document indicating the list of local M2 choices available here : https://urlz.fr/i3Lo.

Supporting documents :
- Residence permit stating the country of residence of the first country
- Or receipt of request stating the country of first asylum
- Or document from the UNHCR granting refugee status
- Or receipt of refugee status request delivered in France
- Or residence permit stating the refugee status delivered in France
- Or document stating subsidiary protection in France or abroad
- Or document stating temporary protection in France or abroad.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Sources et voies d'exposition aux polluants	3	Semestre 1	20	2.5				
Charger le détail								
Toxicologie réglementaire	3	Semestre 1	18	6				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practica class
Charger le détail Epidémiologie environnementale	3	Semestre 1	18	3	3.5			
Charger le détail Mécanismes d'action des toxiques	3	Semestre 1	22	2				
Charger le détail Toxicologie in silico	3	Semestre 2	16		8			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practica class
Cancérogénèse et pathologies tumorales	3	Semestre 1	22	2				
Charger le détail Pathologies non tumorales	3	Semestre 1	13	11				
Charger le détail Toxicologie des aliments	3	Semestre 1	22	2				
Charger le détail UE libre	3	Semestre 1						
Charger le détail Bases de la toxicologie : étude des mécanismes et approches méthodologiques (obligatoire si extérieur M1 Toxico P5-P7)	3	Semestre 1	24					
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Toxicologie de la reproduction	3	Semestre 1	25					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	c l
Projet de stage	3	Semestre 2		0.5					

Charger le détail

Etude de cas	6	Semestre 1		3					

Charger le détail

Anglais (en lien avec l'étude de cas)	3	Semestre 2		0.5					

Charger le détail

Ecotoxicologie	3	Semestre 1	17.5	7.5					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista learn cou
Projet de recherche	6	Semestre 1		0.5					

Charger le détail

Projet de stage	3	Semestre 2		0.5					

Charger le détail

Anglais (en lien avec le projet de recherche)	3	Semestre 2		0.5					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class

Cancérogénèse et pathologies tumorales	3	Semestre 1	22	2					
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Pathologies non tumorales	3	Semestre 1	13	11					
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Toxicologie des aliments	3	Semestre 1	22	2					
Charger le détail									
UE libre	3	Semestre 1							
Charger le détail									
Bases de la toxicologie : étude des mécanismes et approches méthodologiques (obligatoire si extérieur M1 Toxico P5-P7)	3	Semestre 1	24						
Charger le détail									
Toxicologie de la reproduction	3	Semestre 1	25						
Charger le détail									
Ecotoxicologie	3	Semestre 1	17.5	7.5					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distanc learni cours
Stage	21	Semestre 2							
Charger le détail									

Teaching Location(s)

PARIS 13

Contact

- **Valérie Camel**

http://www.universite-paris-saclay.fr/formation/master/nutrition-et-sciences-des-aliments/m2-toxicologie-exposome-sante-tes