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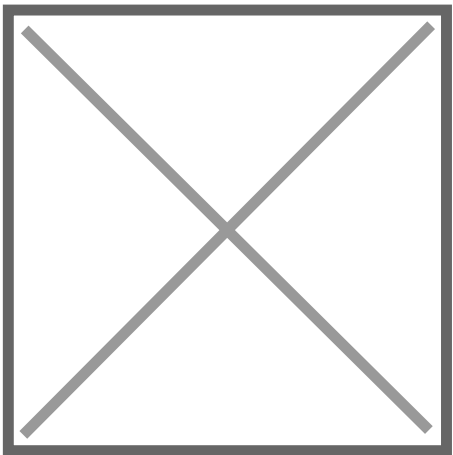
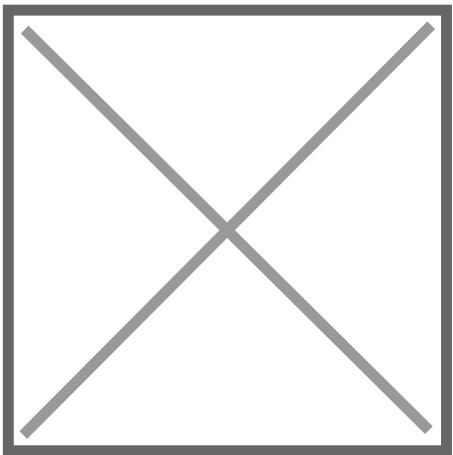
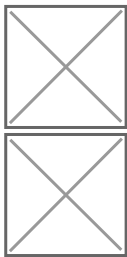
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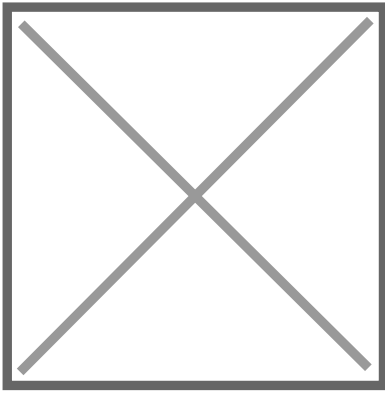
Envoyer

Une erreur est survenue. Merci de réessayer ultérieurement
Le mail de partage a bien été envoyé.

Add to Compare

M2 Toxicologie environnement santé





Master's degree

Specialisation Nutrition and Food Science

Language(s) of instruction

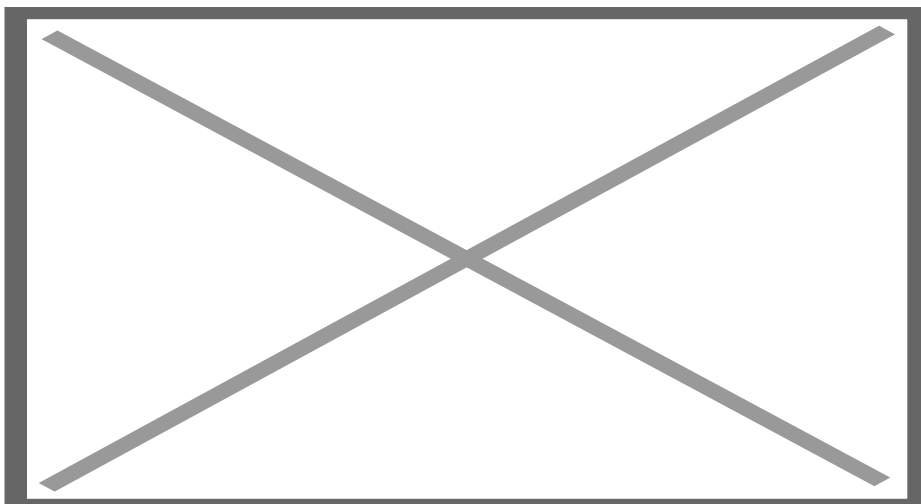
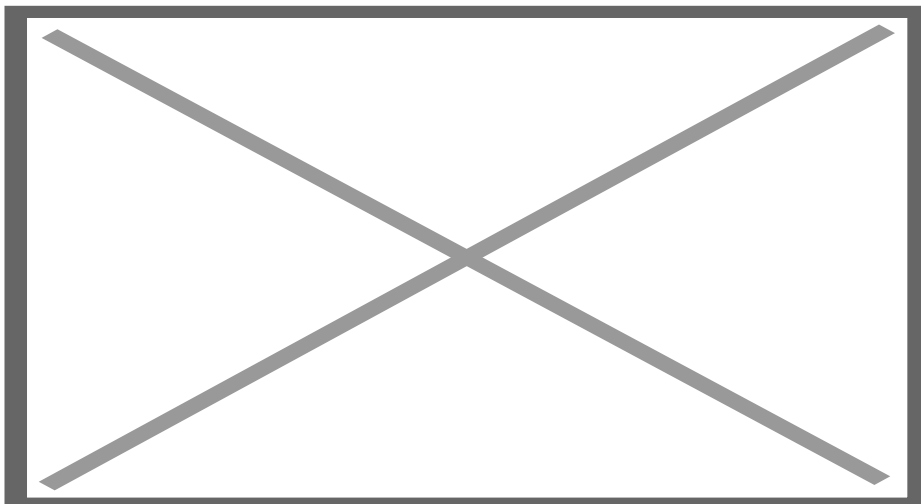
French

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).

[Télécharger la fiche détaillée](#)

[Apply Now](#)





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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

Tronc commun

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	practical class	directed study/practical class
Sources et voies d'exposition aux polluants	3	Semestre 1	20	2.5				

Sources et voies d'exposition aux polluants

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 20

Directed study: 2.5

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Aucun

Type of assessment

Evaluation Continue non Intégrale

Toxicologie réglementaire	3	Semestre 1	18	6
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
■								

Toxicologie réglementaire

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 18

Directed study: 6

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Epidémiologie environnementale	3	Semestre 1	18	3	3.5
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Epidémiologie environnementale

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 18

Practical study : 3.5

Directed study: 3

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Mécanismes d'action des toxiques	3	Semestre 1	22	2
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Mécanismes d'action des toxiques

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 22

Directed study: 2

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Toxicologie in silico	3	Semestre 2	16	8
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Toxicologie in silico

ECTS : 3

Semester: Semestre 2

Detail

Lecture: 16

Practical study : 8

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

UE à choix pour le sous-parcours "Professionnel"

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Cancérogénèse et pathologies tumorales	3	Semestre 1	22	2
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Cancérogénèse et pathologies tumorales

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 22

Directed study: 2

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Bases de la toxicologie

Type of assessment

Evaluation Continue non Intégrale

Pathologies non tumorales	3	Semestre 1	13	11
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Pathologies non tumorales

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 13

Directed study: 11

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Bases de la toxicologie

Type of assessment

Evaluation Continue non Intégrale

Toxicologie des aliments	3	Semestre 1	22	2
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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■

Toxicologie des aliments

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 22

Directed study: 2

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Aucun

Type of assessment

Evaluation Continue non Intégrale

UE libre	3	Semestre 1
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■

UE libre

ECTS : 3

Semester: Semestre 1

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Bases de la toxicologie : étude des mécanismes et approches méthodologiques (obligatoire si extérieur M1 Toxico P5-P7)	3	Semestre 1	24
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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Bases de la toxicologie : étude des mécanismes et approches méthodologiques (obligatoire si extérieur M1 Toxic P5-P7)

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 24

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Aucun. Il s'agit d'une UE de remise à niveau obligatoire pour les étudiants ayant validé un autre M1 que celui de la mention Toxicologie - Ecotoxicologie et n'ayant pas suivi durant leur cursus une formation suffisante en Toxicologie

Type of assessment

Evaluation Continue non Intégrale

[Toxicologie de la reproduction](#) 3 Semestre 1 25

Toxicologie de la reproduction

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 25

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Détail renseigné au niveau Élément Constitutif

UE obligatoire pour le sous-parcours "Professionnel"

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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[Projet de stage](#) 3 Semestre 2 0.5

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	practical class	directed study/practical class
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Projet de stage

ECTS : 3

Semester: Semestre 2

Detail

Directed study: 0.5

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Etude de cas	6	Semestre 1	3
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Etude de cas

ECTS : 6

Semester: Semestre 1

Detail

Directed study: 3

Project : 50

Independant learning: 0

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Anglais (en lien avec l'étude de cas)	3	Semestre 2	0.5
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	-------------------

Anglais (en lien avec l'étude de cas)

ECTS : 3

Semester: Semestre 2

Detail

Directed study: 0.5

Language(s) of instruction

Anglais

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Ecotoxicologie	3	Semestre 1	17.5	7.5
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Ecotoxicologie

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 17.5

Directed study: 7.5

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Aucun

Type of assessment

Evaluation Continue non Intégrale

UE obligatoire pour le sous-parcours "Recherche"

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
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Projet de recherche	6	Semestre 1		0.5	
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
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■

Projet de recherche

ECTS : 6

Semester: Semestre 1

Detail

Directed study: 0.5

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Projet de stage	3	Semestre 2	0.5
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■

Projet de stage

ECTS : 3

Semester: Semestre 2

Detail

Directed study: 0.5

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

Anglais (en lien avec le projet de recherche)	3	Semestre 2	0.5
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
----------	------	----------	---------	----------------	-----------------	------------------------	-------------------------	--------------------------------	-------------------

Anglais (en lien avec le projet de recherche)

ECTS : 3

Semester: Semestre 2

Detail

Directed study: 0.5

Language(s) of instruction

Anglais

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

UE à choix pour le sous-parcours "Recherche"

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Cancérogénèse et pathologies tumorales	3	Semestre 1	22	2				

Cancérogénèse et pathologies tumorales

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 22

Directed study: 2

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Bases de la toxicologie

Type of assessment

Evaluation Continue non Intégrale

Pathologies non tumorales	3	Semestre 1	13	11
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
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■

Pathologies non tumorales

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 13

Directed study: 11

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Bases de la toxicologie

Type of assessment

Evaluation Continue non Intégrale

Toxicologie des aliments	3	Semestre 1	22	2
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■

Toxicologie des aliments

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 22

Directed study: 2

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Aucun

Type of assessment

Evaluation Continue non Intégrale

UE libre	3	Semestre 1
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
■								

UE libre

ECTS : 3

Semester: Semestre 1

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

[Bases de la](#)

[toxicologie :](#)

[étude des](#)

[mécanismes et](#)

[approches](#)

[méthodologiques](#)

[\(obligatoire si](#)

[extérieur M1](#)

[Toxico P5-P7\)](#)

■

Bases de la toxicologie : étude des mécanismes et approches méthodologiques (obligatoire si extérieur M1 Toxico P5-P7)

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 24

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Aucun. Il s'agit d'une UE de remise à niveau obligatoire pour les étudiants ayant validé un autre M1 que celui de la mention Toxicologie - Ecotoxicologie et n'ayant pas suivi durant leur cursus une formation suffisante en Toxicologie

Type of assessment

Evaluation Continue non Intégrale

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

Toxicologie de la reproduction

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 25

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Détail renseigné au niveau Élément Constitutif

Ecotoxicologie	3	Semestre 1	17.5	7.5
■				

Ecotoxicologie

ECTS : 3

Semester: Semestre 1

Detail

Lecture: 17.5

Directed study: 7.5

Language(s) of instruction

Français

Remote teaching

non

Prerequisites

Aucun

Type of assessment

Evaluation Continue non Intégrale

Stage

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning courses
Stage	21	Semestre 2							

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning courses
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■

Stage

ECTS : 21

Semester: Semestre 2

Language(s) of instruction

Français

Remote teaching

non

Type of assessment

Evaluation Continue non Intégrale

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>