Université Paris-Saclay

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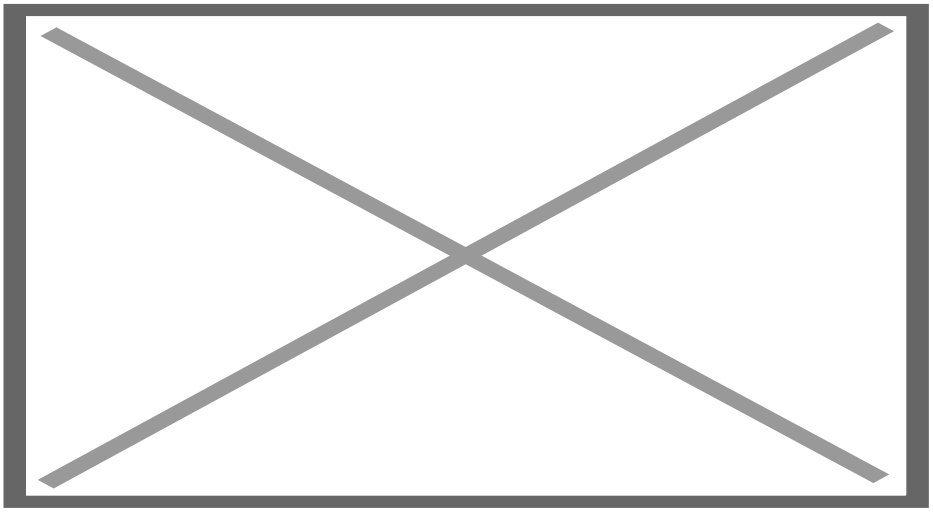
M2 Climate, Land Use and Ecosystem Services

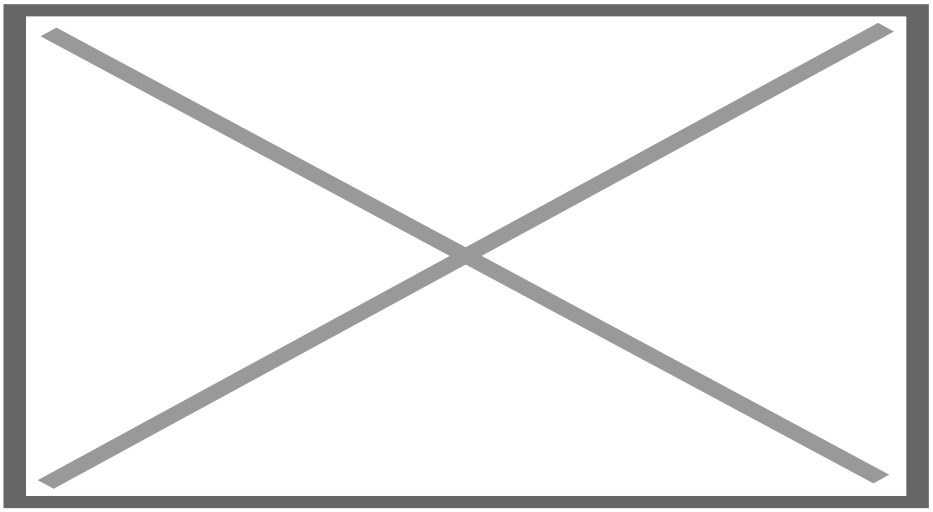
Master's degree
Specialisation Agrosciences, Environment, Territory, Landscape, Forest
Language(s) of instruction
English

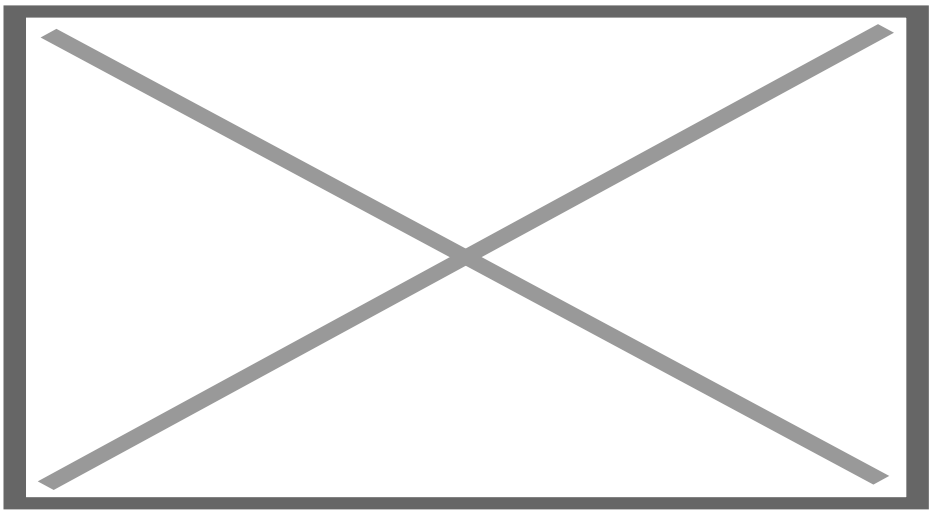
Climate, Land Use and Ecosystem Services (CLUES)

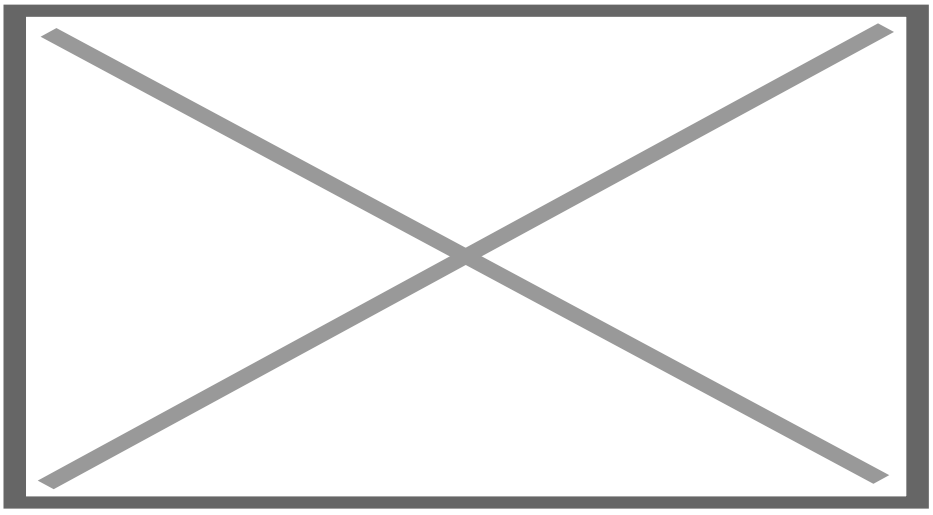
The master's program is organised into a first semester that provides skills, knowledge, and expertise, followed by a second semester of practical experience in an internship, culminating in the writing of a thesis and a defence.

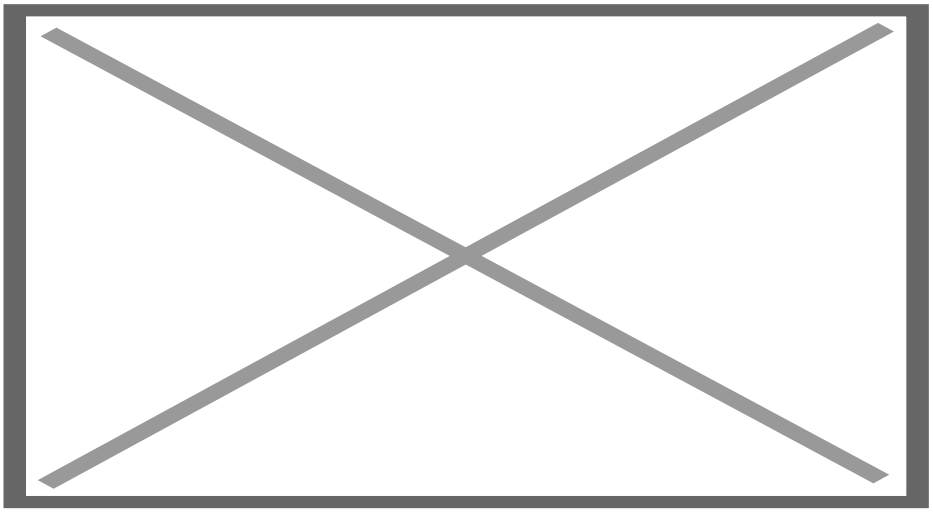
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

Courses will promote integrated approaches through a **multi-disciplinary curriculum** combining natural sciences, social and economic sciences, and advanced courses in **data management, analysis and modelling** to **promote sustainable development in rural and semi-urban areas.**

Objectives

Terrestrial ecosystems are a core component of the climate system and a key provider of services to human societies via their production of biomass for food and fuels or their regulation of environmental resources. As the demand for these services is rapidly growing, these ecosystems have been manipulated and managed to an unprecedented extent, via changes in land occupation and use worldwide, in particular for agricultural and forestry purposes. Facing up to the current ecological challenges thus requires a careful understanding of ecosystem processes and services to design and implement management strategies that enhance ecosystem services in a changing global environment. The economic sectors targeted include agriculture and forestry but also the agri-food sector, energy and the bio-economy in general, while the programme will also be relevant to policy-making in the area of environmental regulation and natural resources management, from local to global scales. The overarching objective of this MSc programme is to provide students with the scientific knowledge, know-how and skills necessary to understand the functioning of terrestrial ecosystems in response to major drivers such as climate change, land-use change patterns and ecosystem management technologies. Graduates from this programme will possess in-depth knowledge of biosphere-climate interactions, acquire methods to assess ecosystem services, and be fully aware of the panel of technological options available in terms of land-use planning management to promote the sustainable development in rural and semi-urban areas.

Calendar

Start of programme (indicative date)
01/09/2026
End of programme (indicative date)
01/10/2027
Admission

Capacity

Available Places

22

Target Audience and Entry Requirements

Knowledge of biosphere-climate interactions from a biological and physical perspective.

Période(s) de candidature

Inception Platform

From 02/02/2026 to 15/06/2026

Supporting documents

Compulsory supporting documents

Rank of previous year and size of the promotion.

Motivation letter.

In English

List of other masters requested (excluding Saclay).

Professional project.

in English

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

Certificate of English level.

Any documents that certify a "B2 or upper" level or equivalent in English (CEFR)

Curriculum Vitae.

In Englsih

Additional supporting documents

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

Letter of recommendation from a trainee.

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

In principle we ask for a B1 certificate for French, but it is not mandatory either. We trust that you will pick up enough French during the programme to get by in Paris.

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

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/practical class	d l
Nature-based solutions to substitute fossil resources and address global change	3	Semester 2	12	6	6				
Charger le détail									
Urban vegetation for sustainable cities	3	Semestre 2	12	12					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Charger le détail									
Understanding and managing soil organic matter for ecosystem services delivery	2	Semestre 1	17.5	8.5					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Climatic system- Introduction to atmospheric dynamics and energetics	3	Semestre 1	20	8				
Charger le détail								
Biosphere-Atmosphere interactions at local scale	3	Semestre 1	12	6	12			
Charger le détail								
Biogeochemical cycles and surface-atmosphere exchanges and interactions : global scale	4	Semestre 1	30	15				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Agronomy for global issues	3	Semestre 1	14	6					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Public policy for climate and environmental regulation	1	Semestre 1	18						
Charger le détail									
Land-use engineering for the provision of climate and environmental services	3	Semestre 1	12	3	9				
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Ecology under climate change	3	Semestre 1	18	12					
Charger le détail									
Integrated assessment of ecosystem services and sustainability	4	Semestre 1	12	6					
Charger le détail									
Everyone Eating Well within Environmental Limits	3	Semestre 1	21	6					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista learn cou
Integrative project	4	Semestre 2	6	12					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour

CLUES Internship	23	Semestre 2							

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dist lea co
Modelling concepts and applications	3	Semestre 2	3	10	3				

Charger le détail

Teaching Location(s)

PALAISEAU

Contact

- **CLUES M2**

  Responsables de Formation CLUES

http://www.universite-paris-saclay.fr/formation/master/agrosciences-environnement-territoires-paysage-foret/m2-climate-land-use-and-ecosystem-services