Université Paris-Saclay

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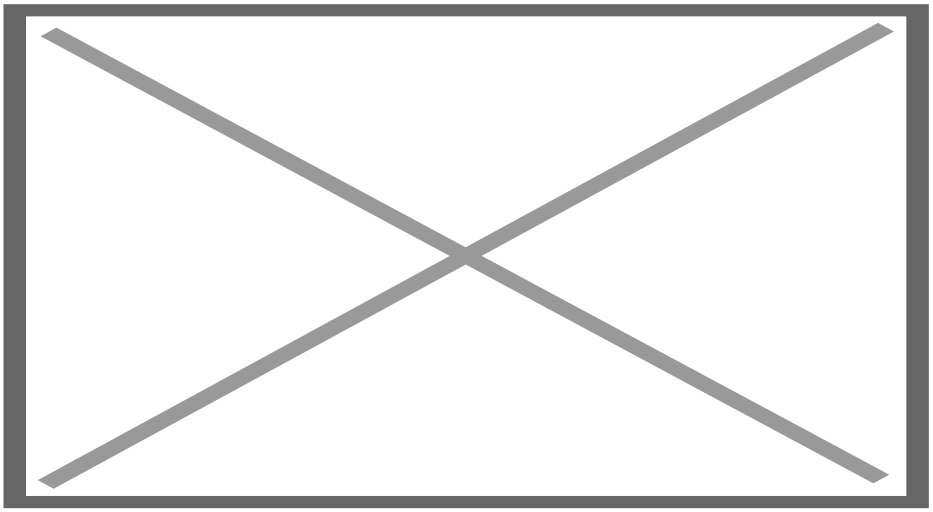
M1 Chemistry - International Track - ERASMUS Mundus

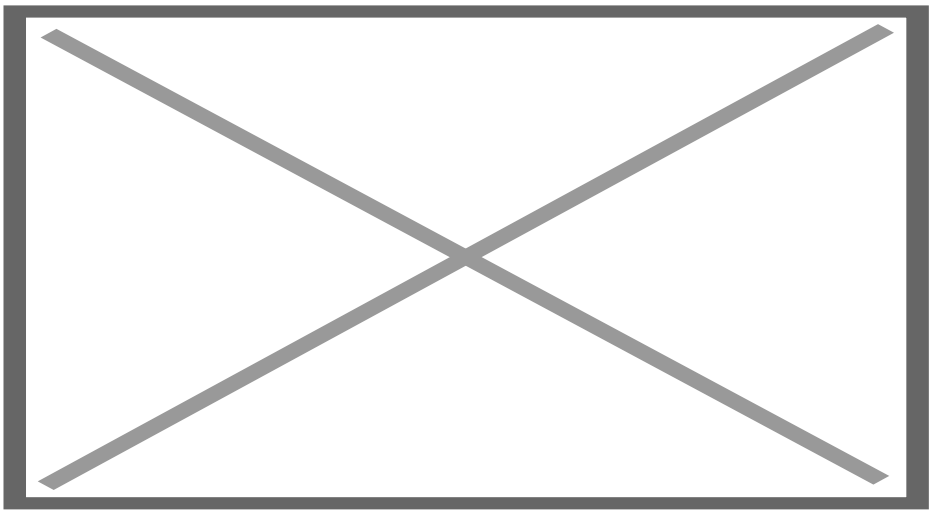
Master's degree
Specialisation Chemistry
Enrolment type
Formation initiale
Language(s) of instruction
English

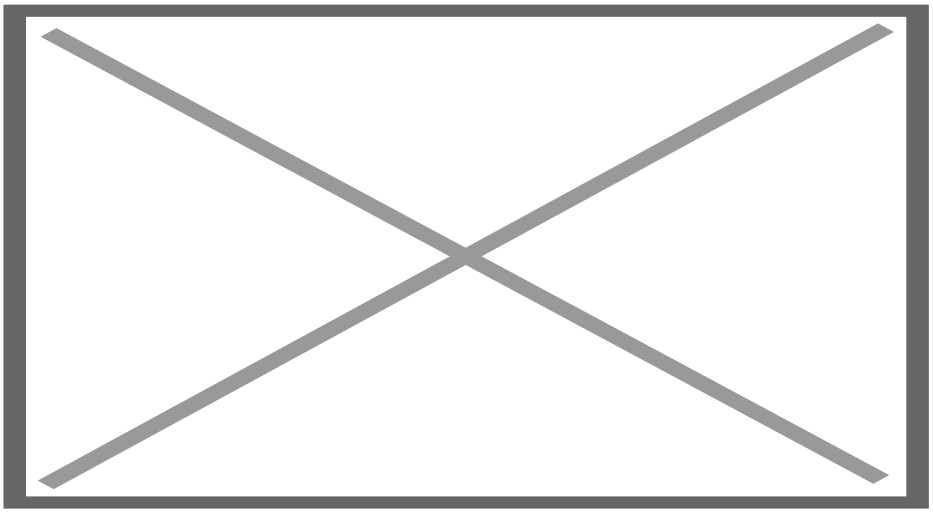
A two-year Master's programme in Surface chemistry, electrochemistry, radiation chemistry and photochemistry. The joint Erasmus Mundus SERP Master's programme aims to train experts in experimental and theoretical chemistry, physical chemistry and materials science, high-level management and entrepreneurship.

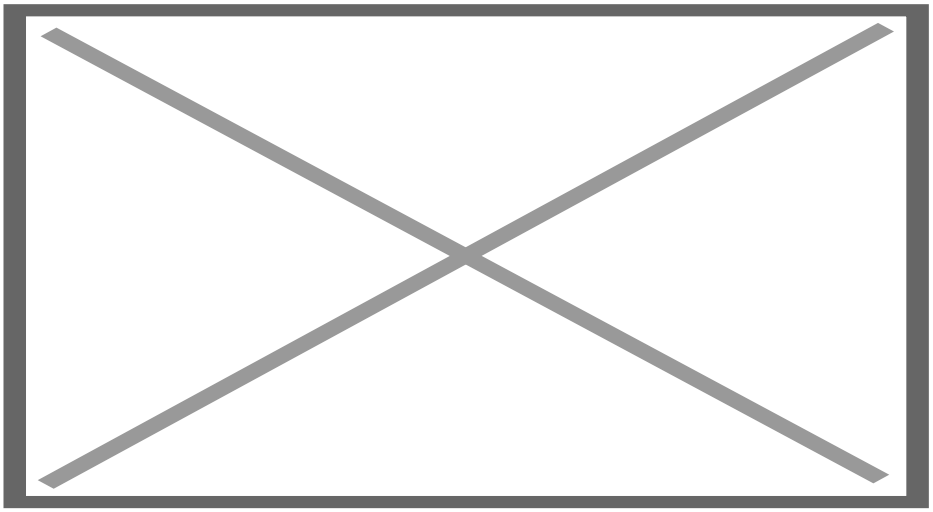
This course corresponds to the European SERP (Surface, Electro, Radiation and Photo-chemistry) Master's programme, which has been awarded the Erasmus Mundus label by the European Commission + The SERP Master's programme is taught entirely in English and is organised jointly with McGill (Canada), Genoa (Italy), Porto (Portugal) and Adam-Mickiewicz de Poznan (Poland) universities. The Master's programme is open to all French and international students with a wide range of backgrounds. It covers different majors depending on the chosen mobility track, and emphasises learning through research and practice, with a lot of practical work. A winter school is organised on AI and data science, while a summer school is organised on acquiring the methods needed to understand and integrate AI into the professional world of research and industry. Scholarships and mobility grants are available.

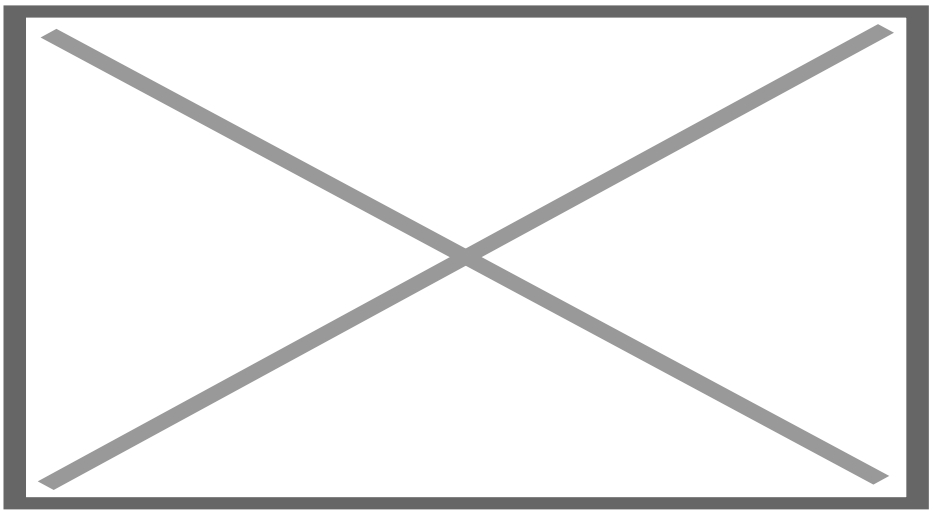
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

- Communicate information and results to a variety of target audiences, being able to describe a protocol and organise results. - Develop and implement a scientific approach in chemistry, whether theoretical or experimental, independently, and organising work time to achieve the set objectives. - Identify and implement methods and techniques for developing and/or producing compounds or materials, in compliance with good laboratory practice. - Select and implement methods for separating and characterising compounds, having mastered the theoretical principles of measurement and being able to interpret results. - Predict physico-chemical properties or the reactivity of compounds and/or materials by combining all disciplinary knowledge. - Understand the properties of the spatial organisation of matter and the temporal aspects of chemical phenomena.

Objectives

With compulsory study mobility in at least two universities, the Erasmus Mundus Masters programme enables students•from all over the world to graduate with a double or multiple degree. This curriculum also encourages intercultural experiences, and helps develop students' competencies.

Débouchés

Further Study Opportunities

PhD in Chemistry / Biology
PhD
PhD thesis
Students in this track can turn to research at the end of the 2nd year Master's.
Data Scientist, Data Analyst, Ingénieur·e en Machine Learning dans des secteurs innovants (tech, finance, santé, énergie, etc.) ;
R&D researcher or data modelling and analysis expert in leading-edge companies or laboratories.

Calendar

Start of programme (indicative date)
02/09/2026
End of programme (indicative date)
31/08/2027
Admission

Admission Route

Chemistry
Physics, Chemistry

Capacity

Available Places

10

Target Audience and Entry Requirements

Bachelor of Science

Supporting documents

Compulsory supporting documents

Copy of the last diploma.

Copy of passport.

Motivation letter.

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

Certificate of English level.

Curriculum Vitae.

Recommendation letters.

Additional supporting documents

Certificate of English level (compulsory for non-English speakers).

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

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
Transferable skills	3	Semestre 1	0	24				
Charger le détail								
Quantum mechanics	5	Semestre 1	8	13	14			
Charger le détail								
Organic / Inorganic chemistry towards sustainability	5	Semestre 1	9	15	8			
Charger le détail								
Kinetics / Electrochemistry	5	Semestre 1	16	12	16			
Charger le détail								
Introduction to biophysics and microscopies for life sciences	5	Semestre 1	12	11	10			
Charger le détail								
Experimental methods on Innovative research Infrastructures (IR and UV-Vis spectroscopies, NMR, MS)	5	Semestre 1	18	12	16			
Charger le détail								
Winter School	2	Semestre 1	6	16.5				
Charger le détail								
Digital Micro-Certification "The Challenges of Sustainable Chemistry"	0	Semester 1	10.5					
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dis lea c
Semestre 2 à l'étranger : Uniwersytet im. Adama Mickiewicza (Pologne) ou Universidade do Porto (Portugal)	30	Semestre 2							

Charger le détail

Teaching Location(s)

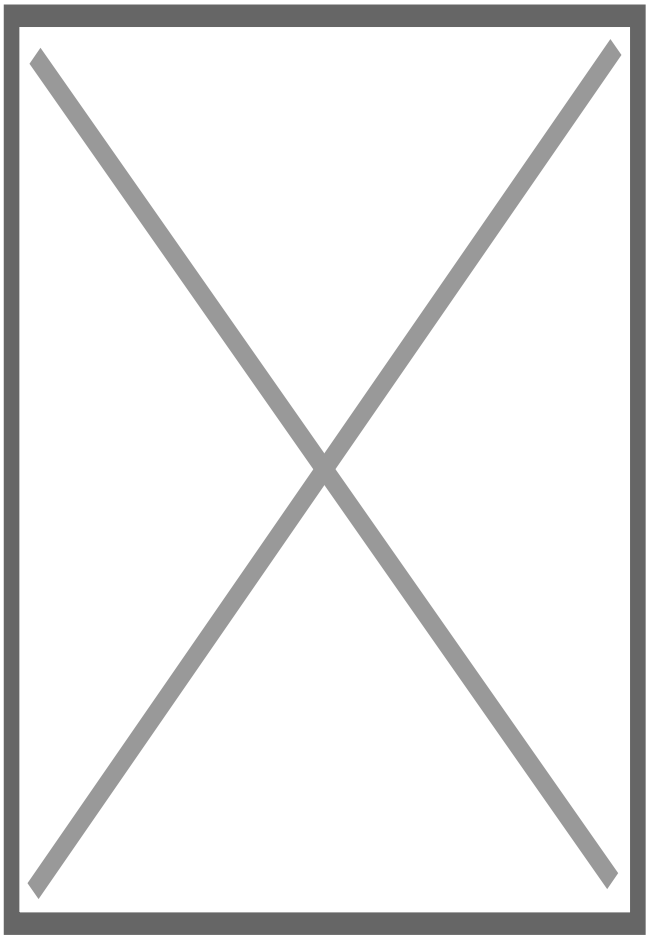
ORSAY

Academic Partner(s)

Universités de McGill (Canada), Gênes (Italie), Porto (Portugal) et Adam Mickiewicz de Poznan (Pologne).

Training campus

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Orsay Bures

Orsay / Bures-sur-Yvette
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Library
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Contact

- **Debora Scuderi**

  Enseignant-Chercheur, UFR Sciences, Université Paris-Saclay
- **Eva RENOUF**

  Menager
- **SERP Master**

  Europerean magager

http://www.universite-paris-saclay.fr/formation/master/chimie/m1-chemistry-international-track-erasmus-mundus