Université Paris-Saclay

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# L1 Portail Mathématiques, Physique, Chimie (MPC), parcours Physique, Chimie, Mathématiques (PCM)

Licence (Undergraduate programme)

Specialisations Physique | Sciences de la Terre | Chimie

Language(s) of instruction

French

Télécharger la fiche détaillée

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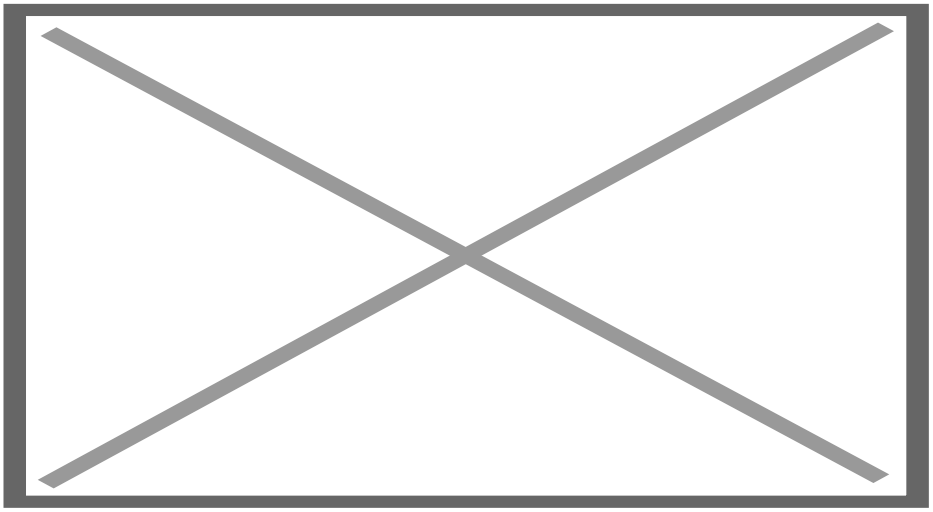

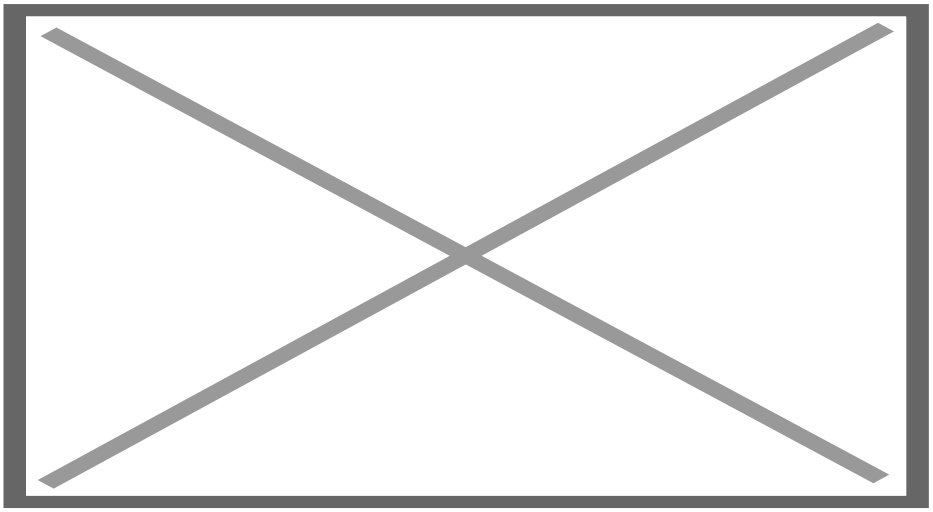

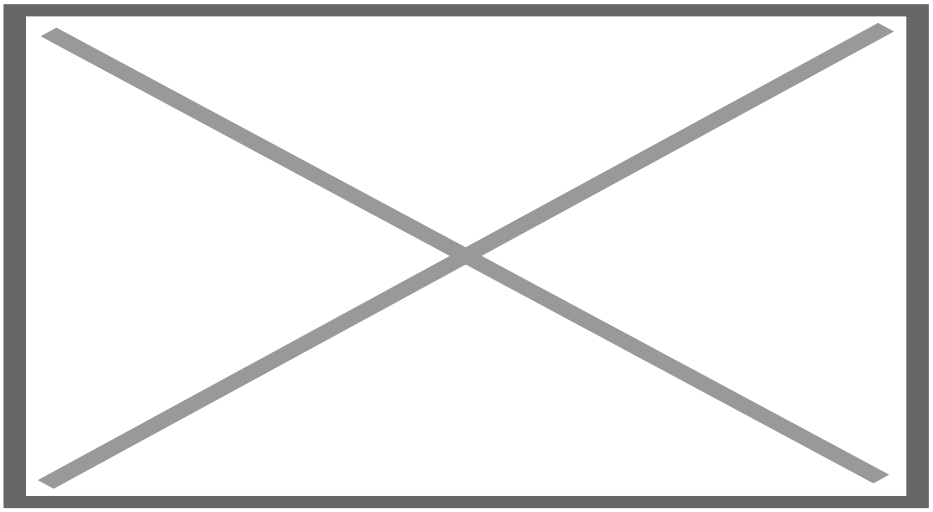

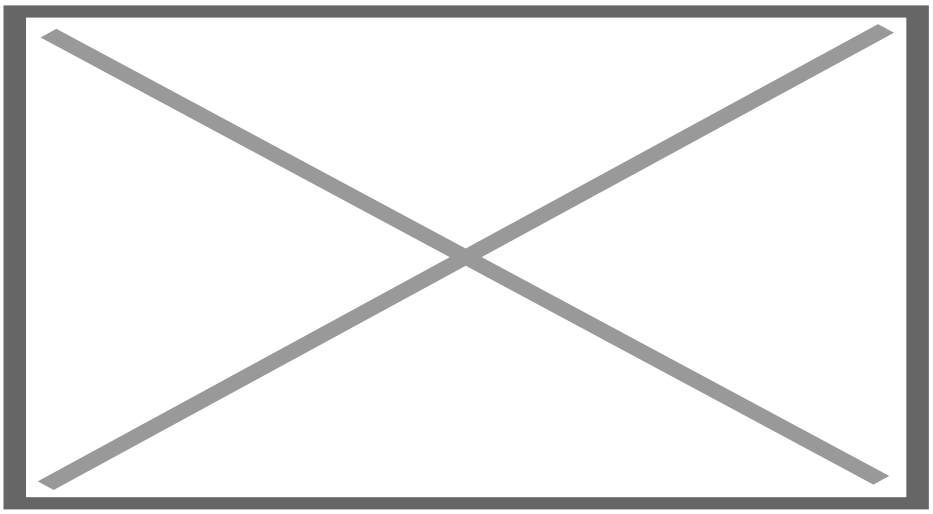

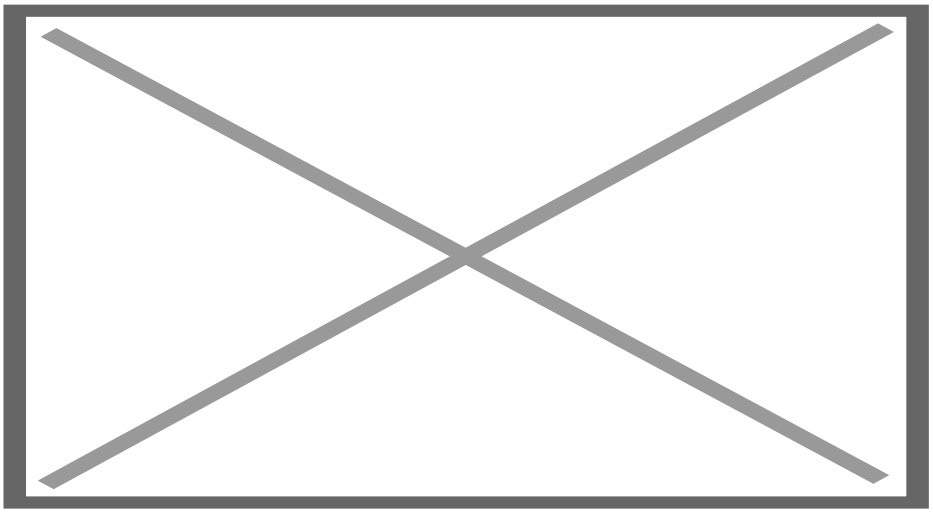

# Information

- Overview
- Application requirements
- Schedule

Présentation

# Débouchés

## Further Study Opportunities

### PhD
### Engineering school
### Master of Chemistry
### Master of applied physics
### Master of Education and Teaching Professions
### Master of Teaching Professions
### Geosciences and Environment Technician

Admission

## Capacity

### Available Places

75

## Période(s) de candidature

ParcourSup Platform

From January 19th to March 12th, 2026

Programme

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | dista learn cou |
|---|---|---|---|---|---|---|---|---|---|
| 1 UE Physique au choix | | | | | | | | | |
| Physique générale I PCm | 7.5 | Semestre 1 | 36 | 36 | | | | | |
| Charger le détail | | | | | | | | | |
| Physique générale I PCm+ | 7.5 | Semestre 1 | 36 | 36 | | | | | |
| Charger le détail | | | | | | | | | |
| 1 UE Chimie obligatoire | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class | dista learn cou |
|---|---|---|---|---|---|---|---|---|---|
| Atomes, molécules, solides | 8 | Semestre 1 | 27 | 33.5 | 12 | | | | |
| Charger le détail | | | | | | | | | |
| 1 UE Mathématiques au choix | | | | | | | | | |
| Analyse-Calculus PCm | 6 | Semestre 1 | 30 | 30 | | | | | |
| Charger le détail | | | | | | | | | |
| Analyse-Calculus PCm+ | 6 | Semestre 1 | 30 | 30 | | | | | |
| Charger le détail | | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practi class |
|---|---|---|---|---|---|---|---|---|
| S2 Parcours PCm+ | | | | | | | | |
| UE obligatoire de Physique | | | | | | | | |
| Physique générale II | 7.5 | Semestre 2 | 32 | 40 | | | | |
| Charger le détail | | | | | | | | |
| 2 UEs obligatoires de Chimie | | | | | | | | |
| Propriétés de la matière - Obligatoire | 3 | Semestre 2 | 12 | 15 | 8 | | | |
| Charger le détail | | | | | | | | |
| Transformations de la matière | 4.5 | Semestre 2 | 10.5 | 28.5 | 2 | | | |
| Charger le détail | | | | | | | | |
| UE obligatoire de Mathématiques | | | | | | | | |
| Analyse | 6 | Semestre 2 | 30 | 30 | | | | |
| Charger le détail | | | | | | | | |
| S2 parcours PCm | | | | | | | | |
| UEs spécifiques Cursus Chimie - 1 UE obligatoire, 1 UE au choix | | | | | | | | |
| Radioactivité, noyaux et applications - Au choix | 2.5 | Semestre 2 | 15 | 10 | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practi class |
|---|---|---|---|---|---|---|---|---|
| Charger le détail | | | | | | | | |
| Chimie spectaculaire - Au choix | 2.5 | Semestre 2 | 3 | 3 | 16 | | | |
| Charger le détail | | | | | | | | |
| Matériaux pour l'énergie - Au choix | 2.5 | Semestre 2 | 6 | 6 | 12 | | | |
| Charger le détail | | | | | | | | |
| Propriétés de la matière - Obligatoire | 3 | Semestre 2 | 12 | 15 | 8 | | | |
| Charger le détail | | | | | | | | |
| Chimie verte - Au choix | 2.5 | Semestre 2 | 3 | 3 | 16 | | | |
| Charger le détail | | | | | | | | |
| Chimie et Cosmétique - Au choix | 2.5 | Semestre 2 | 4 | | 16 | | | |
| Charger le détail | | | | | | | | |
| UEs spécifiques Cursus Sciences de la Terre | | | | | | | | |
| Géosciences et environnement | 3 | Semestre 2 | 7.5 | 6 | 21.5 | | | |
| Charger le détail | | | | | | | | |
| Géophysique et Planétologie | 2.5 | Semestre 2 | 9 | 10 | 6 | | | |
| Charger le détail | | | | | | | | |
| UEs obligatoires de Tronc commun | | | | | | | | |
| Electromagnétisme I | 2.5 | Semestre 2 | 9 | 16 | | | | |
| Charger le détail | | | | | | | | |
| Algèbre linéaire | 6 | Semestre 2 | 24 | 24 | 12 | | | |
| Charger le détail | | | | | | | | |
| Transformations de la matière | 4.5 | Semestre 2 | 10.5 | 28.5 | 2 | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practi class |
|---|---|---|---|---|---|---|---|---|
| Charger le détail | | | | | | | | |
| Optique géométrique | 2.5 | Semestre 2 | 8 | 7.5 | 9.5 | | | |
| Charger le détail | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class |
|---|---|---|---|---|---|---|---|---|
| 1 UE libre (0 ECTS) | | | | | | | | |
| UE libre (0 ECTS) | 0 | Semestre 1 | | | | | | |
| Charger le détail | | | | | | | | |
| UEs obligatoires PCm+ | | | | | | | | |
| SPOC : Sens critique / sciences en sociétés | 0 | Semestre 2 | | | | | | |
| Charger le détail | | | | | | | | |
| Instrumentation | 2.5 | Semestre 2 | 8 | 8 | 9 | | | |
| Charger le détail | | | | | | | | |
| Optique géométrique | 2.5 | Semestre 2 | 8 | 7.5 | 9.5 | | | |
| Charger le détail | | | | | | | | |
| Python: Introduction à la programmation | 2 | Semestre 1 | 2 | | 18 | | | |
| Charger le détail | | | | | | | | |
| Algèbre linéaire | 4 | Semestre 1 | 20 | 20 | | | | |
| Charger le détail | | | | | | | | |
| 2 UEs obligatoires et 3 UEs au choix pour PCm | | | | | | | | |
| 2 UEs spécififques obligatoires | | | | | | | | |
| Système Terre | 2 | Semestre 1 | 12 | 8 | | | | |
| Charger le détail | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class |
|---|---|---|---|---|---|---|---|---|
| Formation numérique | 1.5 | Semestre 1 | | 6 | | | | |
| Charger le détail | | | | | | | | |
| 1ère UE au choix | | | | | | | | |
| Soutien Physique - S1 | 2.5 | Semestre 1 | 12.5 | 12.5 | | | | |
| Charger le détail | | | | | | | | |
| Francais : expression écrite et orale - S1 | 2.5 | Semestre 1 | | 24 | | | | |
| Charger le détail | | | | | | | | |
| Soutien Maths - S1 | 2.5 | Semestre 1 | 12.5 | 12.5 | | | | |
| Charger le détail | | | | | | | | |
| UE libre Catalogue S1 | 2.5 | Semestre 1 | | | | | | |
| Charger le détail | | | | | | | | |
| 2nde UE au choix | | | | | | | | |
| Stage de terrain en Géosciences - S2 | 2.5 | Semestre 2 | | | 24 | | | |
| Charger le détail | | | | | | | | |
| Méthodologie - S2 | 2.5 | Semestre 2 | | 12 | 12 | | | |
| Charger le détail | | | | | | | | |
| 3ème UE au choix | | | | | | | | |
| Climat, Énergies - S2 | 2.5 | Semestre 2 | 15 | | 10 | | | |
| Charger le détail | | | | | | | | |
| Soutien Maths-Physique - S2 | 2.5 | Semestre 2 | 12.5 | 12.5 | | | | |
| Charger le détail | | | | | | | | |
| Compléments de physique - S2 | 2.5 | Semestre 2 | 12 | 13 | | | | |
| Charger le détail | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class |
|---|---|---|---|---|---|---|---|---|
| UEs obligatoires communes PCm et PCm+ | | | | | | | | |
| Anglais - FSO - L1 S2 - 2 ECTS - 1 UE parmi 6 | | | | | | | | |
| Anglais - FSO - L1 S2 - 2 ECTS | 2 | Semestre 2 | 18 | | | | | |
| Charger le détail | | | | | | | | |
| Theater workshop - FSO - S2 - 2 ECTS | 2 | Semestre 2 | 24 | | | | | |
| Charger le détail | | | | | | | | |
| Reading and creative writing workshop - FSO - S2 - 2 ECTS | 2 | Semestre 2 | 24 | | | | | |
| Charger le détail | | | | | | | | |
| Intercultural communication EUGLOH project - FSO - S2 - 2 ECTS | 2 | Semestre 2 | 24 | | | | | |
| Charger le détail | | | | | | | | |
| Writing workshop - FSO - S2 - 2 ECTS | 2 | Semestre 2 | 24 | | | | | |
| Charger le détail | | | | | | | | |
| Debate club - FSO - S2 - 2 ECTS | 2 | Semestre 2 | 30 | | | | | |
| Charger le détail | | | | | | | | |
| Projet Personnel d'Etudes et d'Insertion (PPEI) | | | | | | | | |
| PPEI - Entreprise 360 - 1ère partie | 1.5 | Semestre 1 | | | | | | |
| Charger le détail | | | | | | | | |

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practical class |
|---|---|---|---|---|---|---|---|---|
| PPEI - S'approprier son Projet Professionnel | 2 | Semestre 1 | 1.5 | 11.5 | | | | |
| Charger le détail | | | | | | | | |
| UE obligatoire pour étudiants Oui si | | | | | | | | |
| Remédiation | 0 | Semestre 1 | | 25 | | | | |
| Charger le détail | | | | | | | | |

# Teaching Location(s)

ORSAY

# Training campus

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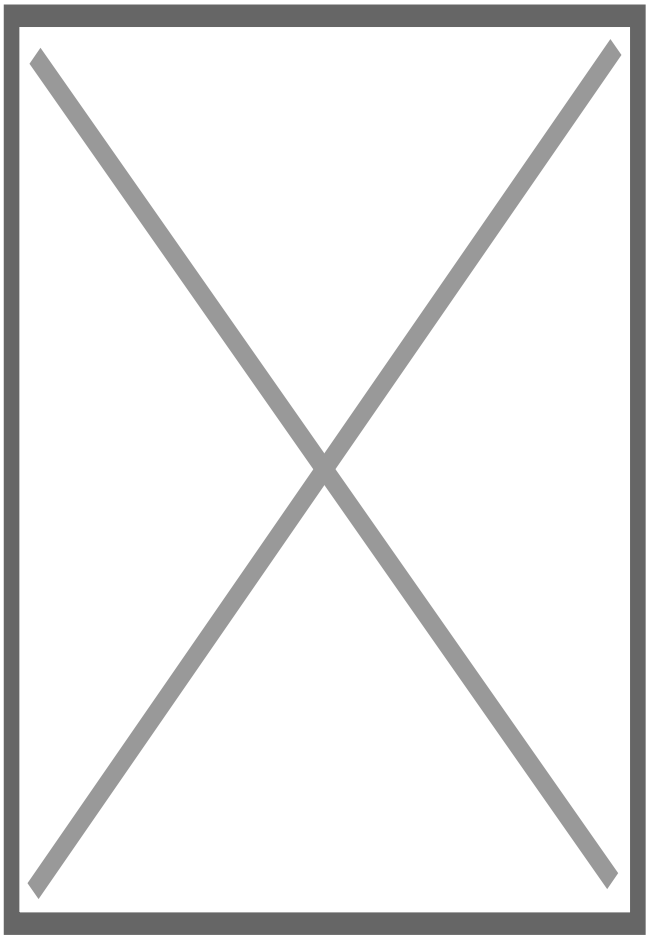

### Orsay Bures

Orsay / Bures-sur-Yvette
Bus 4607, 4626
RER B Orsay ville ou Bures-sur-Yvette
Voir
Library
Community center

## Contact

- **Jérôme Roques**

  MCF
- **Zahia Djouadi-Bouali**

  MCF

http://www.jm.universite-paris-saclay.fr/formation/licence/physique/l1-portail-mathematiques-physique-chimie-mpc-specialite-physique-chimie-mathematiques-pcm