Université Paris-Saclay

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CPES1 Data Science, Health and Society - 1st Year

CPES (Multidisciplinary higher education programme)
Specialisation Science des données, société et santé
Language(s) of instruction
English
French

A 3-year curriculum of excellence in data science with a focus on health/society applications, the multidisciplinary graduate programme (CPES) is a demanding multidisciplinary and interdisciplinary degree. It offers openings to different cultures, a collaborative and innovative project-based pedagogcial approach and an introduction to research, characterised by a different specialisation each year.

The courses are taught at the heart of the Paris Saclay campus by lecturers from Université Paris Saclay, ENS Paris Saclay, the Institut Polytechnique de Paris, HEC Paris and the Lycée International de Palaiseau Paris Saclay (LIPPS). During the first two years, most of the curriculum is taught at LIPPS in Palaiseau, where the boarding school is also located. Part of the discipline can be taught in English.

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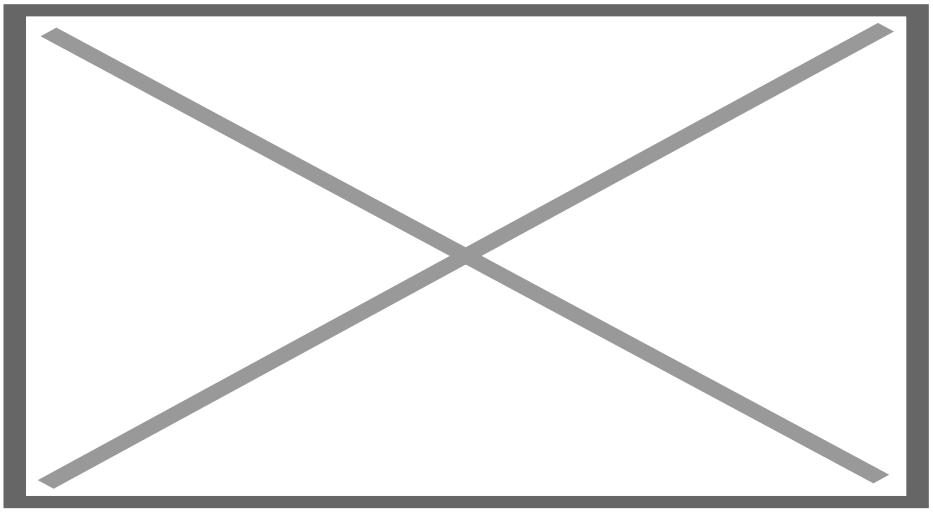

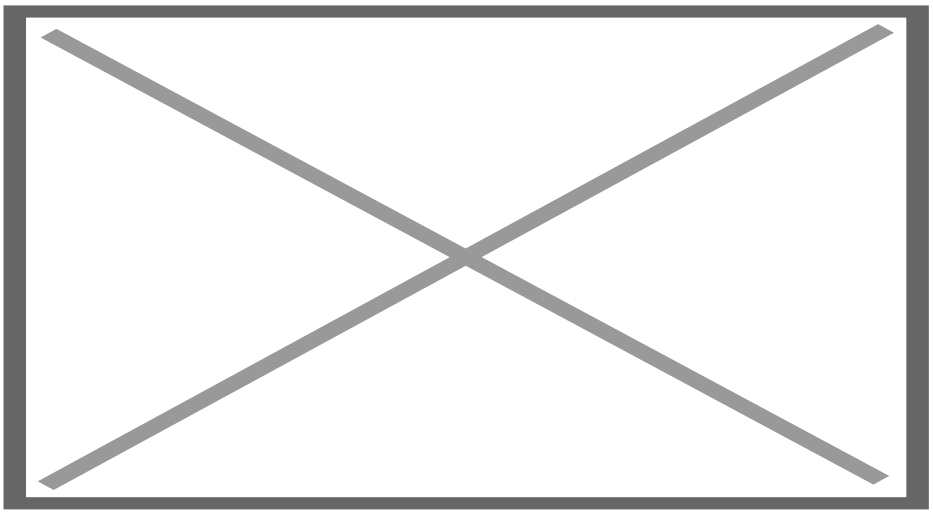

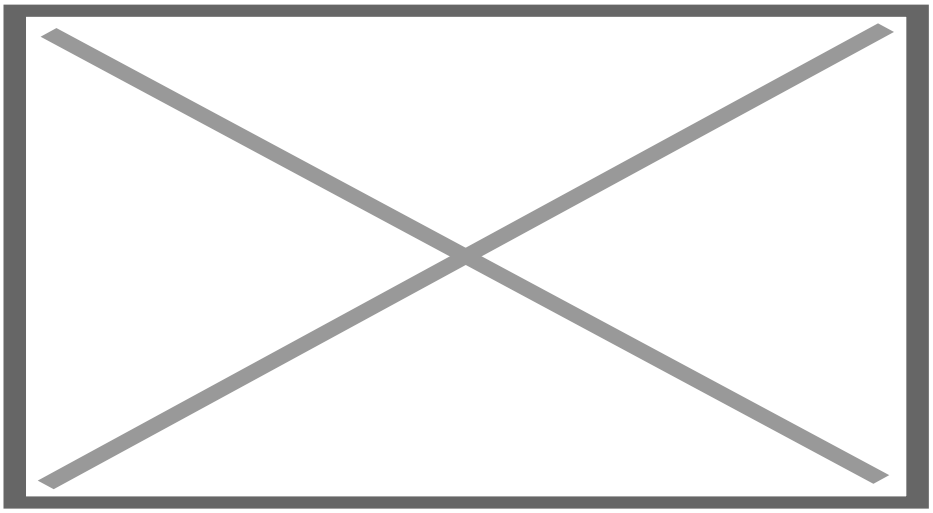

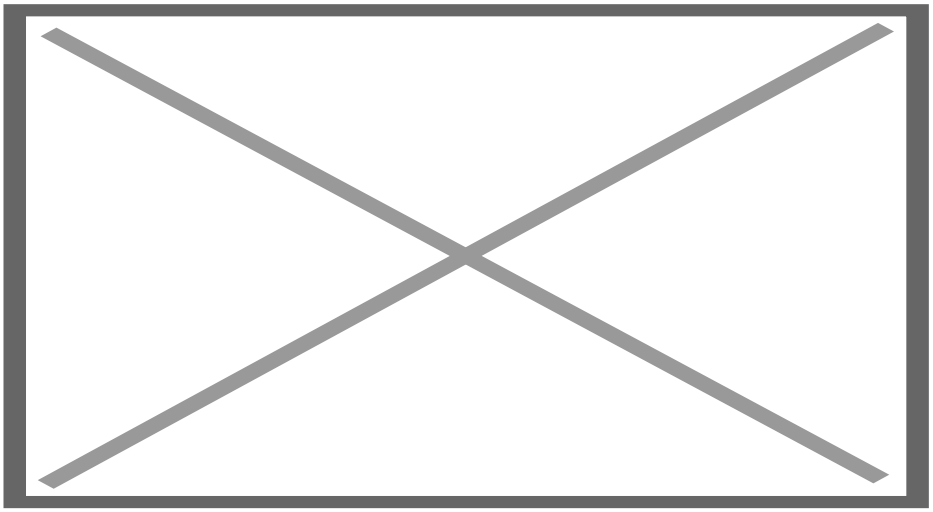

Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

The curriculum offers general courses in mathematics, computer science, economics, social policy and health, complemented by courses in data science. At the end of the first month, students choose their Major: Data sciences and health or Data sciences, social sciences and society. There is also a block of personal openness and cross-disciplinary competencies.

Objectives

The multidisciplinary graduate programme (CPES) provides a solid foundation of multi-disciplinary and interdisciplinary knowledge to meet the data analysis and Artificial Intelligence needs identified in the public and private sectors. It prepares students for further study in a Master's degree at one of the grandes écoles or universities in France or abroad, or for admission to the grandes écoles (engineering schools, higher teacher training schools, business schools) according to each school's specific admissions process.

Admission

Capacity

Available Places

48

Target Audience and Entry Requirements

- Must have scientific knowledge and competencies, in particular excellent results in the final year mathematics major. * Must have a foundation of knowledge of the discipline * Be able to analyse, model and reason * Must have communication competencies, particularly in English * Curiosity to understand the economic and social issues of the contemporary world * Be able to organise personal work and stick to it over time.

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
Informatique - S1	6	Semestre 1	45		45			
Charger le détail								
Informatique - S2	6	Semestre 2	45		45			
Charger le détail								
Mathématiques - S1	8	Semestre 1	90	30				
Charger le détail								
Mathématiques - S2	8	Semestre 2	90	30				
Charger le détail								
Introduction à la statistique	2	Semestre 2	24	4				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Applicatif commun								
À la découverte de l'IA	2	Semestre 1		24				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
Introduction à l'apprentissage automatique Charger le détail	2.5	Semestre 2	14		14				
Science des données : exploration et visualisation Charger le détail	2.5	Semestre 2			30				
Economie S1 Charger le détail	3	Semestre 1	45						
Economie S2 Charger le détail	3	Semestre 2	45						
Spécialisation au choix									
Parcours Sciences des données et Santé									
Biologie S1 Charger le détail	4	Semestre 1	60						
Biologie S2 Charger le détail	4	Semestre 2	60						
Parcours Sciences des données et Société									
Introduction à la sociologie générale S1 Charger le détail	4	Semestre 1	60						
Introduction à la sociologie générale S2 Charger le détail	4	Semestre 1	60						

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distar learn cour
UE transverses obligatoires									
Anglais S1	2	Semestre 1	30						

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour
Charger le détail									
Anglais S2	2	Semestre 2	30						
Charger le détail									
SPOC Sens critique : Sciences en sociétés	0	Semestre 2							
Charger le détail									
Projet solidaire 1	1	Semestre 2							
Charger le détail									
UE d'ouverture S1/S2									
1 UE d'ouverture S1 au choix									
Arts et culture - S1	2	Semestre 1		25					
Charger le détail									
Activités physiques sportives et artistiques - S1	2	Semestre 1		24					
Charger le détail									
Lang - LV2b - S1	2	Semestre 1		25					
Charger le détail									
FLE - S1	2	Semestre 1		25					
Charger le détail									
UE libre Catalogue S1	2.5	Semestre 1							

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour
Charger le détail									
1 UE d'ouverture S2 au choix									
Arts et culture - S2	2	Semestre 2	25						
Charger le détail									
Activités physiques sportives et artistiques - S2	2	Semestre 2	24						
Charger le détail									
Lang - LV2b - S2	2	Semestre 2	25						
Charger le détail									
FLE - S2	2	Semestre 2	25						
Charger le détail									
UE libre catalogue S1 et S2	2.5	Semestre 2							
Charger le détail									
UE Libre (O ECTS)									
UE libre (0 ECTS)	0	Semestre 1							
Charger le détail									

Teaching Location(s)

ORSAY
JOUY EN JOSAS
PALAISEAU

Academic Partner(s)

Cette formation se fait en partenariat entre le Lycée International de Palaiseau Paris-Saclay, l'Université Paris-Saclay, l'ENS Paris-Saclay, l'Institut Polytechnique de Paris et HEC Paris.

Training campus

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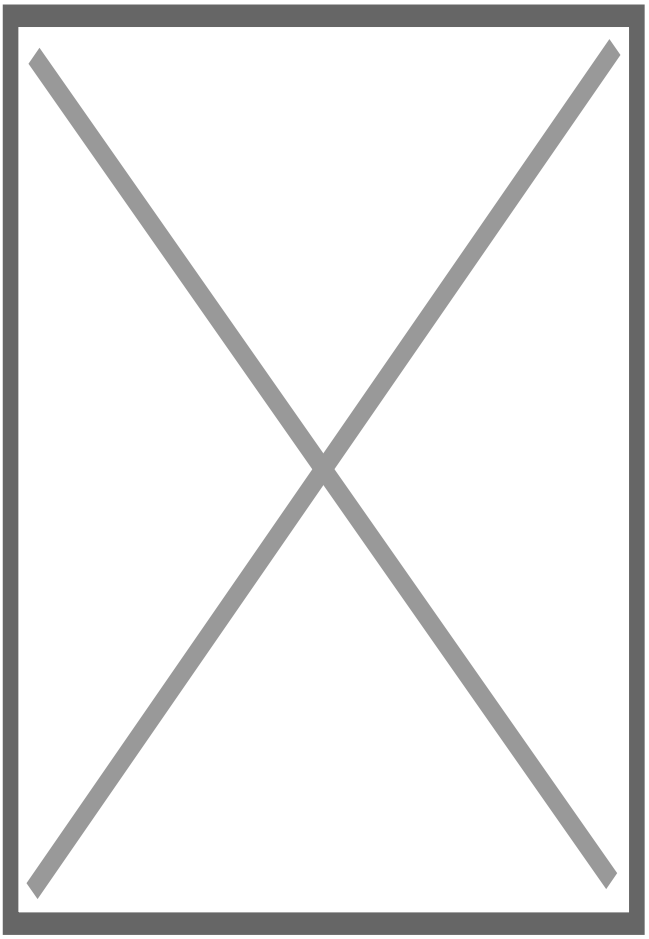
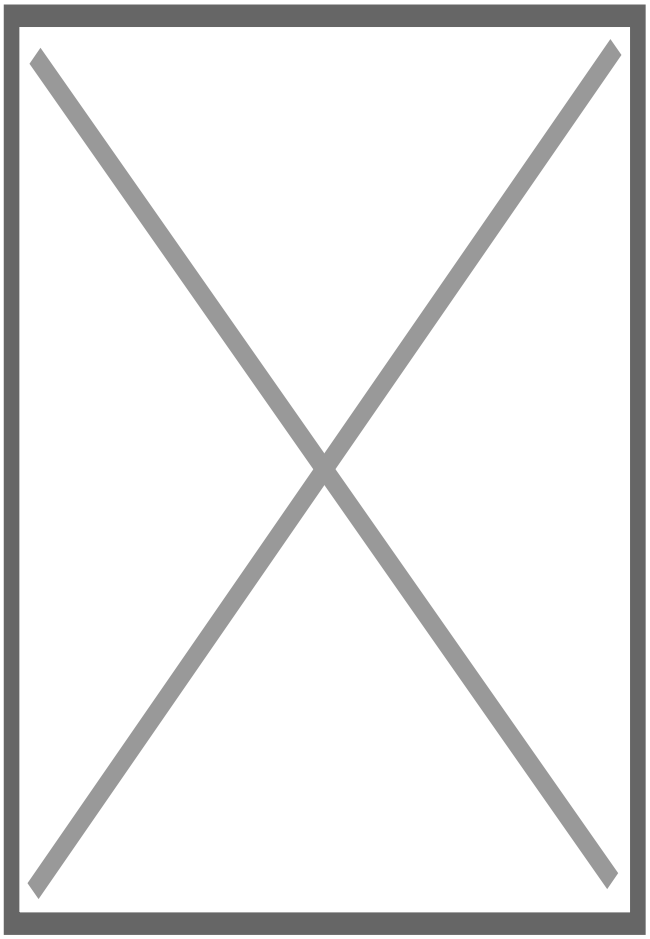


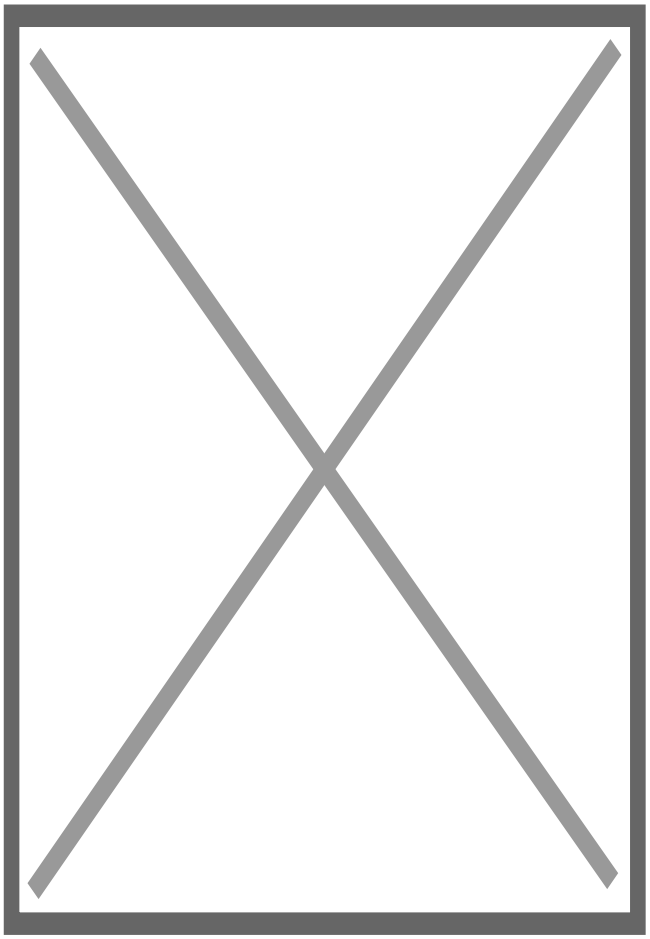
Orsay Bures

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



Saclay Moulon

Saclay / Gif-sur-Yvette / Orsay
Bus 4606 / 4609 / 4611 / 5154
RER B Le guichet
Voir
Student restaurant (CROUS)
Library
Sports facilities
Student residence



Saclay Corbeville

Saclay / Palaiseau
Bus 4606, 4627, 5154, 9105, 9108
RER B Palaiseau, Palaiseau villebon ou Lozère
Voir
Student restaurant (CROUS)
Student residence
Sports facilities

Contact

- **Christine PAULIN**
- **Marie-Line BEAUFILS**
- **Gerald FORHAN**

http://www.polytech.universite-paris-saclay.fr/formation/cycle-pluridisciplinaire-detudes-superieures/science-des-donnees-societe-et-sante/cpes1-sciences-des-donnees-sante-et-societe-1ere-annee