



# SCIENCES FOR A SUSTAINABLE WORLD

UNIVERSITÉ PSL

## **Using science to train a new generation of players in the sustainable development.**

Our development model is facing the physical limits of the planet and our society no longer meets the basic needs of the poorest, nor those of future generations. There is now an urgent need to go beyond the stage of diagnosis or ad hoc solutions to build another model that meets these new challenges: energy transition, reduction of inequalities, conservation of biodiversity, world hunger, etc.

We need to train a new generation of decision-makers who will be able to grasp the challenges of sustainable development in all their complexity on a global scale. With its 4,500 teacher-researchers (30% of whom are involved in topics related to sustainable development), Université PSL is launching a interdisciplinary bachelor's degree, the first of its kind in France, intended to tackle these issues.

## MAIN ASSETS

- **Academic excellence:** high level courses covering every area of study and involving PSL Schools.
- **Commitment:** a unique curriculum that is fully committed to equal opportunity and attracts a diverse student body from complementary backgrounds within each academic class (with need-based scholarships available).
- **International study environment:** an increasing share of the teaching given in English over the three-year program and international mobility abroad possible.
- **An unparalleled campus life in the very heart of Paris:** benefiting from the opportunities available at Université PSL to meet students from several institutions and move among a variety of campuses.

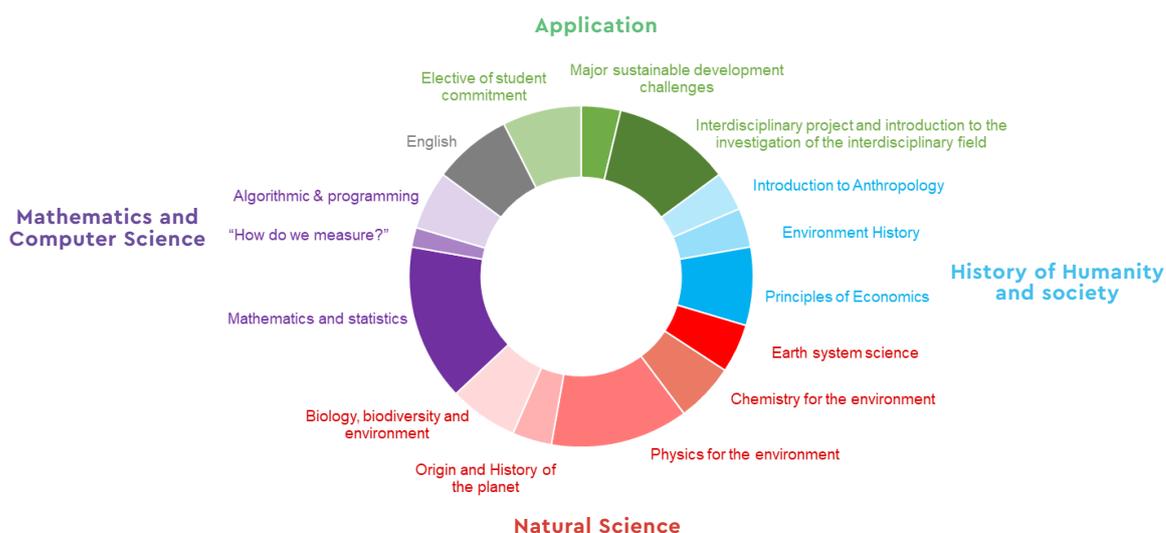
## LEARNING OUTCOMES

- Understanding the complexity of interactions between humans and natural systems
- Measuring and analyzing the impact of actions
- Promoting sustainable development

## INSTRUCTIONAL CONTENT

- **A demanding pluridisciplinary curriculum** to train the best scientific minds to the energy and social transition challenges.
- **Scientific teaching based on current PSL research** and organized around 4 main topics : biology, diversity and environment ; energy and resources ; governance of transitions ; inequalities and migrations.
- **Innovative project-based learning** combining practical team cases (proposed by charitable organizations, startup or public or private organizations) et stages.
- **An annual cycle of conferences** by researchers and actors involved in sustainable development issues (social innovation, industrial ecology, *smart cities*, ethic and artificial intelligence etc.).
- **Development of professional know-how for** tomorrow's jobs (project management, argumentation, negotiation, linguistic and cultural skills, programming, etc.) **and soft skills** (creativity, adaptability, community-mindedness, motivation, communication, reasoning, etc).
- **Student participation in projects connected with sustainability challenges** in the form of mandatory projects or internships.

## CURRICULUM (YEAR 1)



**3 year degree**

**(3 × 2 semesters)  
180 ECTS credits**

- Conferences  
- Projects  
- Teachings  
- Induction seminar  
- Internship  
- International mobilities

### OPPORTUNITIES

This program, basis of PSL's undergraduate studies, is designed to be the foundation for further study to at least the Master's level in:

— Top-ranked universities (Life science, Applied economics, Energy, Materials science and Engineering, Public policies, etc.)

— "Grandes Ecoles" (based on application)

According to their future plans, students can pursue a wide variety of careers (engineers, economists, entrepreneurs, etc.) in the private sector, administration, NGOs, civil society, or research.

*"To develop sustainable responses to global challenges, we have to use a transdisciplinary approach"*

Jasha Oosterbaan, Environmental Management, ISIGE / MINES ParisTech – PSL

*"This new degree takes up the challenge of overcoming the traditional divide between the Natural Sciences and the Humanities and Social Sciences in order to respond to contemporary issues."*

Florence Weber, anthropologist, ENS – PSL

*"We want to train experts who are aware of their responsibility, capable of anticipating the consequences and measuring the impact of their actions."*

Alexis Tsoukias, informaticien, responsable du Master Peace Studies de Dauphine – PSL

*"The major ambition of this degree is to train students who are curious, open-minded and have a strong scientific background"*

Thomas Thiebault, geochemist, EPHE – PSL

### ADMISSIONS (YEAR 1)

Based **on application and interview:**

1 – Application online on Parcoursup

2 – Interview of eligible candidates

#### Prerequisites

— a general high school diploma: baccalauréat diploma (obtained in France or abroad) or another diploma obtained abroad that is recognized as equivalent to the baccalauréat

— English (B2 Level) and French (C1 Level) required

#### Who should apply?

— Interest in every aspect of sustainable development issues (economic, social, cultural, environmental) and significant underlying topics (energy transition, inclusion, etc.).

— Passion for cross-disciplinary disciplines

— Strong interest in science

— An inclination toward reflection (analysis) as well as action (entrepreneurialism)

— The desire and ability to work as part of a team, interpersonal skills.

— A critical mindset along with reasoning skills and the ability to express yourself (orally and in writing).

— Involvement in clubs or charitable organizations outside your school (voluntary work, sports, etc.)

#### Selection criteria

Academic performance, level of commitment and motivation. Admission process will give priority to diverse backgrounds and curricula, in line with PSL's policy to equal opportunity.

*Tuitions fees in accordance with bachelor's national fees (approx. 170 €/year). Exemptions for scholarship students.*

### More information

[psl.eu/en/education/psl-bachelors-degree-sustainability-sciences](https://psl.eu/en/education/psl-bachelors-degree-sustainability-sciences)

### Contact

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