

International Bachelor Ygrec

**DATA SCIENCES FOR
A CHANGING WORLD**

2020/2021

Data science, cyber security, economic and financial engineering, artificial intelligence are all great challenges which companies face today and which require cutting edge, contemporary skills. The International Bachelor Ygrec offers a completely new and innovative teaching programme enabling you to tackle the latest Information Technologies and Data challenges.

In a world that is perpetually changing, who knows what job profiles will be like in ten, fifteen or twenty years?

Tomorrow's managers

are likely to be in constant evolution and will be required to sharpen skills, update methods or handle new technologies on a regular basis:

International Bachelor Ygrec trains people in the fundamental evolutions of the future.

**IT/Data:
be prepared
for the jobs
of tomorrow**

A 4 YEAR
PROGRAMME
TAUGHT EXCLUSIVELY
IN ENGLISH



BE PART OF AN EXTENSIVE INTERNATIONAL EDUCATION AND RESEARCH CONSORTIUM RIGHT NEXT TO PARIS!

Paris Seine University is a consortium of international higher education and research institutions, joining forces to design accredited diplomas at the cutting edge of new tech issues, among which, the International Bachelor Ygrec. It includes EISTI as operator of the Bachelor, Cergy-Pontoise University and ESSEC as partners.



37,000

Students,
of whom 12 %
are foreign students



2,700

Professors
and researchers

39

Research
centers

500

PhD students

150

International
co-thesis projects

Join an excellence university network

Students following the International Bachelor Ygrec will have access to an extensive group of experts in numerous scientific, engineering and management disciplines as well as access to a network of diplomas from Université Paris Seine member establishments. The Université Paris Seine was selected by the French government as one of the few national "Universities of Excellence" under the «Investment for the Future» call.

650

Academic and
research international
partnerships
worldwide



A new way of learning

Knowledge vs reality...

Acquiring solid foundations in core disciplines such as mathematics, statistics or even algorithmics is at the heart of the International Bachelor Ygrec programme. Our method of "learning by doing" immerses students in real situations as from the beginning of the cursus: fieldwork exercises, projects, internships in companies. The more you are immersed in projects, the more you learn. The more you learn, the better you solve difficult professional challenges.

Learn how to apply, learn by doing and learn how to learn

Knowledge acquired in the classroom is applied to real situations such as immersion projects. Practical challenges also offer a unique opportunity to identify grey areas. Frequent feedback from the instructors, sharing experiences and self-assessment help you update your learning strategies and knowledge foundations in order to develop dexterity for problem solving.

LEARNING FOR DOING,
DOING TO LEARN AND
LEARN FROM DOING

Team project immersion: example

In 2018, the participants were asked to contribute to the fight against insect transmitted infectious diseases. Nowadays, more than 400 million people suffer from such diseases worldwide. In small groups, guided by the instruction team, participants conceived and made modules that could contribute to this struggle, such as insect detectors or software to improve entomologists' understanding of insect behavior. Such projects give students the opportunity to learn how to work as a team and help develop skills like project management, professional communication, autonomy and taking initiatives. They encourage learning by defining needs in scientific knowledge and practices required in order for students to achieve their project goal.

WELCOME
DAYS
PREPARE
STUDENTS
FOR THE
NEW
PEDAGOGICAL
METHOD





Be prepared for your future professional life...

Professional and personal skills

Companies expect young graduates to take initiatives, plan activities, identify and manage priorities, understand the needs of interlocutors and adapt their language for target audiences. These skills are developed as from the first year of study during internships, team projects, thematic seminars (such as: “develop your imagination” or “the keys to successful teamwork”). Frequent supervised feedback sessions help reinforce the development of soft-skills.

Look beyond and further

The programme includes conferences and workshops hosted by professionals and researchers, about contemporary issues linked to data.

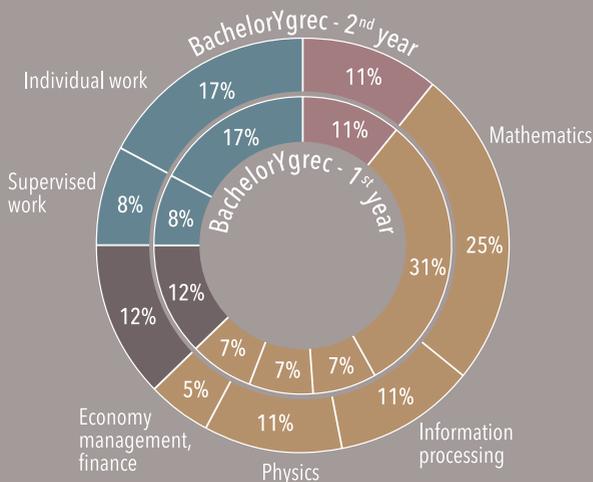
This part of the programme aims to provide a better understanding of current and future issues and solutions e.g. what could Data Science contribute to the health industry or to the circular economy?

Ultimately, they help you plan your career.

TEST INDIVIDUAL INITIATIVES,
GROUP DYNAMICS
AND TEAM WORK

Agility, adaptability and life skills

will all be developed throughout the 4 years of study, you will progressively build solid technical and intellectual foundations

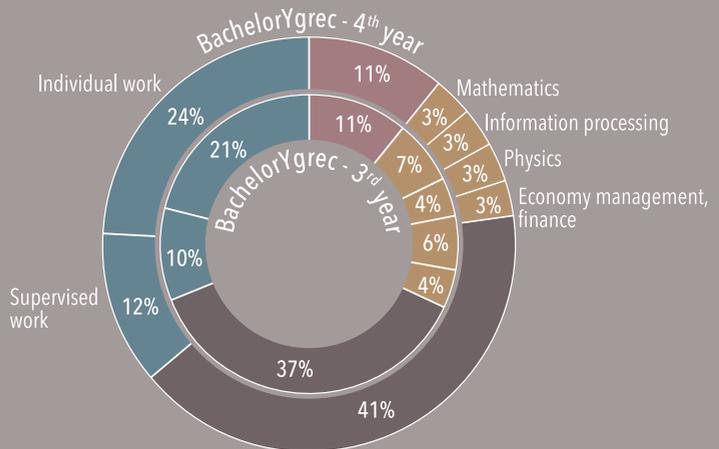


1st and 2nd years:

priority is given to learning the basics and building scientific foundations - choice of deeper modules

3rd and 4th years:

focus on the deeper modules in line with your choices



Connected to the business world

Internships in companies as well as in academic partners' research laboratories are a core part of the International Bachelor Ygrec and take place at the end of each academic year. Students will spend up to a year doing internship activities. You will develop new ways of working and will reinforce and perfect what you have learned. You will be more in phase with the demands of your future job and will gain a significant professional experience.

Great employment opportunities

A wide range of professional opportunities are open to graduates: Data scientist, Data Architect, System administrator, Smart System engineer, Data analyst, Security Manager, Information Security Analysis, Information system security manager.

Further studies

After obtaining the International Bachelor Ygrec diploma, you will have the possibility to enroll in a Master's degree in our university or in other partner universities, or in an engineering school.



A KEY ASSET WHICH WILL
MAKE PROFESSIONAL
INTEGRATION EASY

INTERNATIONAL MOBILITY



Cross-cultural academic experience

Being trained to work in international teams is essential in today's global environment. International perspectives are an elemental part of the course with a study abroad period in a partner university in Europe, Asia or Africa.

New: deployment of the International Bachelor Ygrec on the Singapore campus as from September 2020. You will have the opportunity to spend at least one year on this overseas campus.



Campus life

The university campus is located in Cergy about 30 minutes away from central Paris. Student halls of residence, green areas, sports facilities, libraries, shops and services, cinemas and theatres all offer a pleasant and privileged environment. Our campus welcomes a diverse community of students, faculty members and staff. There are over 100 student associations on campus. The university is strengthening its sustainability plans and is developing solutions to get involved in common causes. Administrative and housing assistance is provided by the university services.

WHERE CITY LIFE MEETS NATURE:
ENCOUNTER A NEW ATMOSPHERE,
NEW TALENTS, NEW FRIENDS



Academic Programme:

To get the latest information, we invite you to visit the program website and learn more about the exciting and challenging program we have designed for you. Please type « EISTI Bachelor Y » in any internet search engine connecting you to our programme.

If you have additional questions or want to discuss with an officer about the program, please feel free to email us at

academic_bachelorY@universiteparisseine.fr

Application and Admission:

Admission Criteria:

- Strong Academic skills in high school, especially in mathematics and Science.
- High school leaving certificate enabling access to a university.
- Swiss high-school maturity certificate, European high school certificate or equivalent.
- English proficiency level CEFR (Common European Framework of Reference for Languages) B2 or with a copy of either one of the test scores: TOEIC 800, IELTS 6.0, or TOEFL 80

Tuition Fee: 10 000 euro/per year

Application fee: 80 €

If you have additional questions or want to discuss with an officer about the admission process, please feel free to email us at

admission_bachelorY@universiteparisseine.fr



Contacts

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For further information, visit the websites:

<https://www.u-cergy.fr/en/international-office/international-bachelor-ygrec.html>

<https://www.eisti.fr/en/international/international-bachelor-ygrec-modelling-and-data-science>

Institutional partners: Cergy-Pontoise University, ESSEC Business School

