École Polytechnique at a Glance

Founded in 1794, École Polytechnique is France’s leading institution in science and technology.
Since its founding, the university has borne a long tradition of scientific excellence. Researchers, professors and alumni from École Polytechnique have received prestigious awards and distinctions including Nobel Prizes and Fields Medals.

International Reputation

- Ranked 4th best small university in the world and 2nd in Europe (2017 World’s Best Small University Ranking – Times Higher Education)
- Ranked 4th in the world and 2nd in Europe for its role in educating global business leaders (Alma Mater Index – Global Executives 2017 – Times Higher Education)
- Ranked 6th worldwide and 1st in France for employability (QS Graduate Employability Rankings 2017 – QS)
World-Class Research

Driving Tomorrow’s Technological Innovation

École Polytechnique is at the center of the world-class scientific, economic and research hub of Paris Saclay. At the heart of a vibrant scientific community, our students interact with internationally renowned scientists, engineers, managers and CEO of major companies as well as entrepreneurs. Furthermore, our students can take advantage of our Innovation & Entrepreneurship Center that fosters creativity and promotes experimentation. This unique space provides students with a business incubator and accelerator where startups can expand and improve their business models.

1,600 Researchers on Campus
39% International Faculty
22 Research Laboratories
500 PhD Students
1,350 Publications per Year
24 Academic and Research Chairs
Life on Campus

Conveniently located only 20 kilometers south of Paris, our campus is nestled among 160 hectares of nature, while providing easy access to one of the world’s most exciting cities. On our campus, no matter what your interest might be, you’ll find a way to get involved. In addition, we make studying here worry-free since on-campus accommodation is guaranteed to all students enrolled in the Bachelor program.

Outstanding Facilities

Sports remain a key strength of the École Polytechnique experience. Our students enjoy outstanding facilities, enabling them to play a large range of sports and to develop skills such as leadership, teamwork and fair play.

Students benefit from incredible indoor sports facilities ranging from swimming pools and gyms, to a climbing wall and fencing room. Outdoors, they are also spoiled with choices including fields for team sports, as well as horseback riding and rowing on our very own lake!
Our Academic Approach

The Bachelor program is a highly selective 3-year program, taught entirely in English and tailored to academically-inclined students with a very strong interest in mathematics and science. École Polytechnique’s well-rounded approach to learning allows students to develop a solid academic background in science, while exploring topics unrelated to pure sciences.

Personal Development and Coaching

The Bachelor students benefit from a personal development program. They are put into groups on day one of the program and assigned a dedicated coach who provides support and monitors their progress. The coaches are experienced professionals with military or civilian backgrounds. They help students to develop their personal and physical skills, individually and as a group through the practice of sports and other specifically tailored activities.

Tutoring from the École Polytechnique Student Community

Tutoring sessions are held in small groups throughout the year and are led by more experienced students (Ingénieurs polytechniciens, Master’s, PhD’s). The aim of the tutoring initiative is to provide Bachelor students with advice to tackle their program curriculum and support when academic difficulties are encountered. Students are also guided by a referent teacher dedicated to monitoring their academic progression.
ACADEMICS

First Year - Common Core
Double Majors Available for the Second & Third Year
École Polytechnique proposes a multidisciplinary approach with bi-disciplinary specializations. The aim is to provide a rounded education for our students and open their minds with a diversified curriculum. Students joining our program will benefit from a demanding and challenging multidisciplinary scientific curriculum focused on mathematics, computer science and physics. They will also attend classes in foreign languages, biology, chemistry, humanities, economics and sports.

Bachelor students at École Polytechnique will have the exceptional opportunity to enter our research laboratories from the very first year of their program allowing them to familiarize themselves with the research environment and interact with the research community.

Three Double Majors

The École Polytechnique Bachelor program offers students the choice of three double majors allowing them to customize their academic journey with a specialization:

- Mathematics and Economics
- Mathematics and Computer Science
- Mathematics and Physics
All students study the same curriculum during their first year which provides them with the fundamental skills and knowledge needed for the rest of the students' academic career. Students discover all of the scientific subjects as they are taught in higher education and can then choose their preference for the double major they wish to study from year two onwards.

First Year: Common Core

- Mathematics: 33%
- Computer Science: 15%
- Physics: 18%
- Economics: 3%
- Biology: 3%
- Humanities & Social Sciences: 4%
- Languages & Foreign Cultures: 9%
- Sports: 6%
- Scientific Option: 6%
- Chemistry Option: 9%
Double Major Mathematics and Economics

The Mathematics and Economics track of the Bachelor program offers a scientific approach to economics. It relies on the construction, analysis, and interpretation of abstract models as well as on the confrontation of theoretical conclusions with empirical data coming from the field or from controlled experiments. Following the program requires strong quantitative skills and a taste for abstract thinking.

Second Year
Mathematics & Economics

Mathematics 31%
Computer Science 11%
Economics 26%
Optional: Further Mathematics 6%
Humanities & Social Sciences 7%
Languages & Foreign Cultures 6%
Research Projects & Internships 7%
Sports 6%

Third Year
Mathematics & Economics

Mathematics 29%
Computer Science 11%
Innovation Management & Entrepreneurship 7%
Optional: Further Mathematics 5%
Economics 28%
Languages & Foreign Cultures 5%
Humanities & Social Sciences 7%
Research Projects & Internships 7%
Sports 5%
Double Major
Mathematics and Computer Science

The Mathematics and Computer Science track offers students the opportunity to study the theory, experimentation, and engineering that form the basis for the design and use of computers today. École Polytechique provides a scientific and practical approach to computation and its applications through studying automating algorithmic processes that scale.

**Second Year**
- Mathematics & Computer Science 30%
- Optional: Biology 11%
- Humanities & Social Sciences 7%
- Languages & Foreign Cultures 5%
- Research Projects & Internships 7%
- Sports 5%

**Third Year**
- Mathematics & Computer Science 32%
- Optional: Biology 11%
- Humanities & Social Sciences 4%
- Languages & Foreign Cultures 3%
- Research Projects & Internships 6%
- Sports 6%
- Mathematics 38%

**Optional:**
- Biology 11%
- Humanities & Social Sciences 4%
- Languages & Foreign Cultures 3%
- Research Projects & Internships 6%
- Sports 6%
- Mathematics 38%

**Second Year**
- Mathematics & Computer Science 30%
- Optional: Biology 11%
- Humanities & Social Sciences 7%
- Languages & Foreign Cultures 5%
- Research Projects & Internships 7%
- Sports 5%

**Third Year**
- Mathematics & Computer Science 32%
- Optional: Biology 11%
- Humanities & Social Sciences 4%
- Languages & Foreign Cultures 3%
- Research Projects & Internships 6%
- Sports 6%
- Mathematics 38%
Double Major
Mathematics and Physics

The Mathematics and Physics track will provide the students with the required knowledge and skills for further studies. In the second year, advanced courses on classical mechanics and classical electrodynamics as well as introductory courses on statistical physics and quantum physics will provide the necessary theoretical background for mastering the concepts of motion, energy, fields, waves, multi-body systems. Building on the knowledge acquired in the first year, students will put to work their expanding mathematical toolbox, and exercise their capability for abstract thinking.
An International Experience

A Class with an International Profile

École Polytechnique is proud to recruit students to our Bachelor program from all around the world. The diversity in the class is the first international experience that students encounter when they arrive.

Studying Abroad

École Polytechnique encourages its students to acquire an international experience during their studies. We offer our Bachelor students the opportunity to spend the first semester of the third year abroad in a partner university.

École Polytechnique has integrated an international element into its curriculum for many years. This strategy provides students with a solid international profile, allowing them to confront the challenges of the multicultural world in which they are to evolve. To work in France or abroad, international expertise and intercultural skills are essential for future graduates.

École Polytechnique has developed partnerships with over fifty universities to facilitate admissions procedures and the Vice-Presidency for International Relations provides a variety of resources and services to assist students who wish to study abroad.
Admission Criteria

Entry Requirements

Students are admitted on the basis of strong academic performance in high school, especially in mathematics and science. Candidates must meet one of the requirements as detailed below:

• Currently completing a secondary school leaving certificate, either internationally recognized or in the country of the candidate (French Baccalaureate, OIB, International Baccalaureate, Swiss high-school maturité certificate, European high-school certificate, etc.);
• Currently preparing a scientific university entrance certificate;
• Already obtained an entrance certificate to study science at a post-secondary institution (scientific university, specialized institute, French preparatory class…).

Admissibility is reviewed on a case-by-case basis depending on the curriculum of study.
How to Apply?

Candidates must submit their application online which consists of the following: scanned copies of their academic transcripts, references, and a personal statement with a CV. Shortlisted candidates will be interviewed via videoconference. Applying early improves your chances!
Tuition Fees, Accommodation and Financial Aid

Tuition Fees

Annual tuition fees for the 2018/19 intake:

> €12,000 per year for EU students
> €15,000 per year for non-EU students

On-campus Accommodation

We strongly encourage students to stay on-campus as enduring a daily commute is not compatible with our demanding curriculum and out-of-the-classroom assignments. Moreover, living on campus allows students to fully partake in our vibrant community, while developing team spirit and solidarity. Students (including international students) are also eligible to receive a monthly housing allowance from the French Government.

Financial Aid

At École Polytechnique, we admit the most talented undergraduate students from all over the world using a need-blind admissions process. We strive to attract and reward the very best students, regardless their financial situation. To this end, eligibility for financial aid is reserved for students who are offered admission with honors. Admissions with honors are awarded to the best candidates of each admissions round. The application file should be ranked among the best as well as the oral interview.