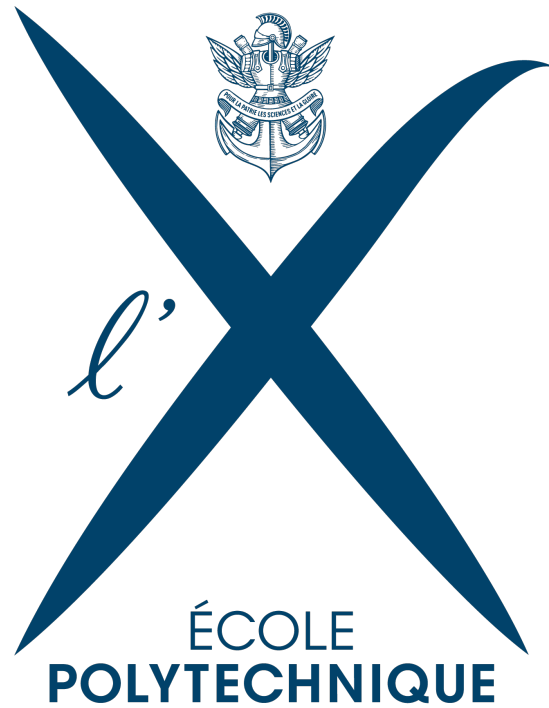




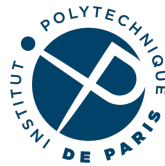
Ecole Polytechnique



Known as l'X



ÉCOLE
POLYTECHNIQUE



IP PARIS



Ecole Polytechnique

- Grande Ecoles - top tier of French universities
- Admission through competitive exam process
- Engineering, Science, Arts & Humanities, Business, Political Science/Social Science
- 250 Grande Ecoles in France - educate the future French elite - only 5% of all university student study at a grande ecole
- Ecole Polytechnique ranked 1st or 2nd

What are the Grandes Ecoles?

- The *grandes écoles* (literally in [French](#) "higher schools") of [France](#) are higher education establishments outside the main framework of the French [university](#) system. The *grandes écoles* select students for admission based chiefly on national ranking in competitive written and oral exams. In contrast, French public universities have a legal obligation to accept all candidates of the region who hold a [baccalauréat](#).
- Usually candidates for the national exams **have completed two years of dedicated preparatory classes**, although this is not always the case.
- They have produced many if not most of France's high-ranking civil servants, politicians and [executives](#), as well as many scientists, writers and philosophers.
- Some *grandes écoles* concentrate on a subject area, such as [engineering](#), [sciences](#), [social sciences](#) , or [business](#).

Facts & figures

⊙ Education

2,750 students

- | | | |
|---------------------------------|----------------|--------------------|
| • « Ingénieur Polytechnicien »: | 2,000 students | 20 % international |
| • Master of Science: | 250 students | 50 % international |
| • PhD: | 500 students | 35 % international |

660 faculty members

- 14 members of the French Academy of Sciences
- 19 % international
- 10 departments (education and research)

⊙ Research

- 1,600 people in the research center
- 600 researchers - 500 PhD
- 22 laboratories
- Total research budget of €95 million
- 1,000 publications per year

⊙ International

- More than 700 international students (27%) from 60 different countries
- 84% of a Class goes abroad (9 months)
- 445 visiting scientists each year (>1 month)
- 179 agreements with foreign universities



A multidisciplinary research centre

Physics and Applied Physics

(Theoretical, Condensed Matter, Solid-State, Particle, Nuclear, Plasma, Materials, Electronics, Lasers, Optics)

Mathematics

Applied Mathematics

Computer Science

Engineering Mechanics

(Solid Mechanics, Fluid Dynamics, Meteorology)

Biology

Chemistry

22 laboratories

1,600 people



Quantitative Economics
& Finance, Management



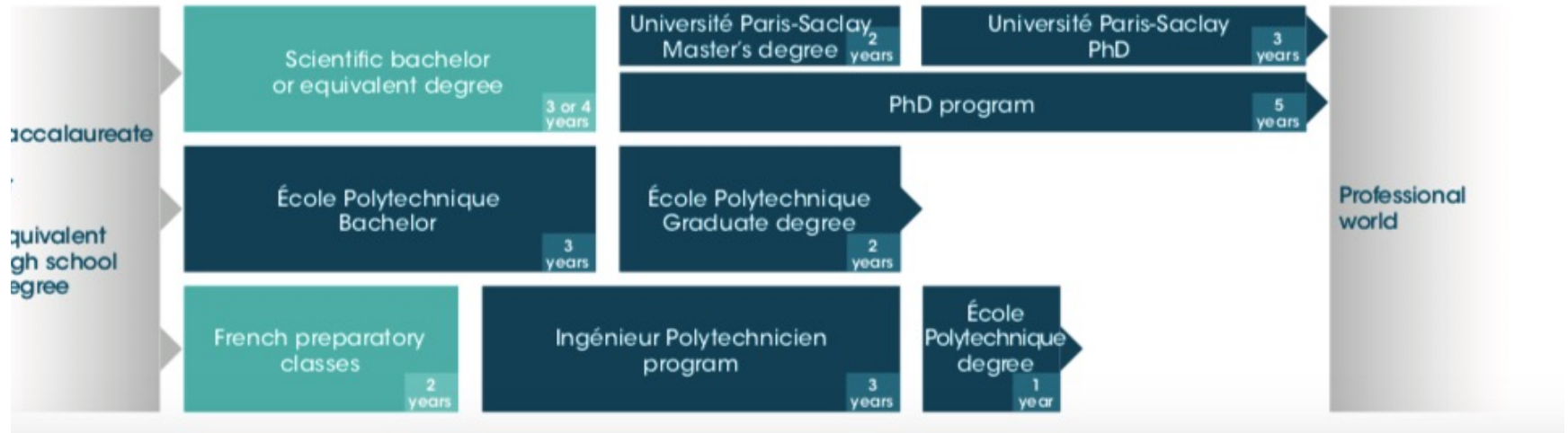
Faculty

FACULTY - KEY FIGURES

1,100
teachers and professors

39%
international faculty

99% of students
employed 6 months after graduation



Ingénieur Polytechnicien Program

- **Both general and specialized studies**
École Polytechnique's *Ingénieur Polytechnicien* Program is a unique **4-year program**: 3 years to obtain the Engineering degree and 1 year to obtain École Polytechnique's Diploma.

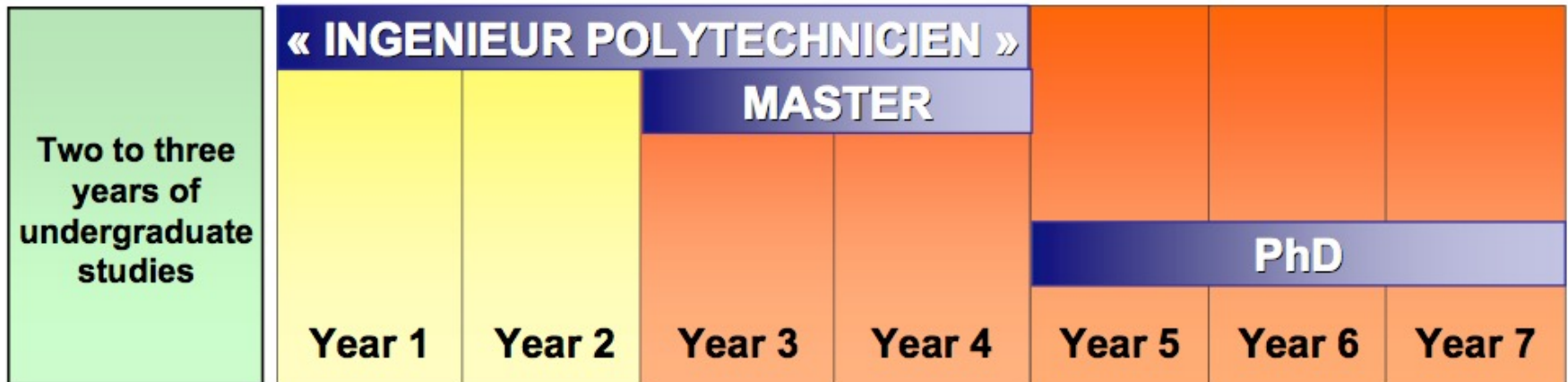
4 Year Program

- This 4-year curriculum provides students with:
 - A multidisciplinary scientific training that gives students a broad scientific base (basic sciences, engineering sciences, social economics).
 - A human, military and sports training that allows students to develop their behavioral and relational skills.
 - Specialized courses with advanced scientific concentrations that rival the top engineering schools worldwide.

Education

Undergraduate

Graduate



- > « Ingénieur Polytechnicien » 2,000 students 20% international
- > Master Program 250 students 50% international
- > PhD Program 500 students 35% international



Ecole Polytechnique Scholars Program

- 3.6 GPA required
- **Must be a current junior to apply**
- Must be able to read, write and comprehend French at least at an intermediate level.
- 14-week term (early Sept. to mid December)
- Students take classes ONLY from Year 3 (courses numbered in the 500 range)
- Students take 4 classes in their Programme d'Approfondissement (option) *literally means intensification or deepening* + possible Hum class + required French class

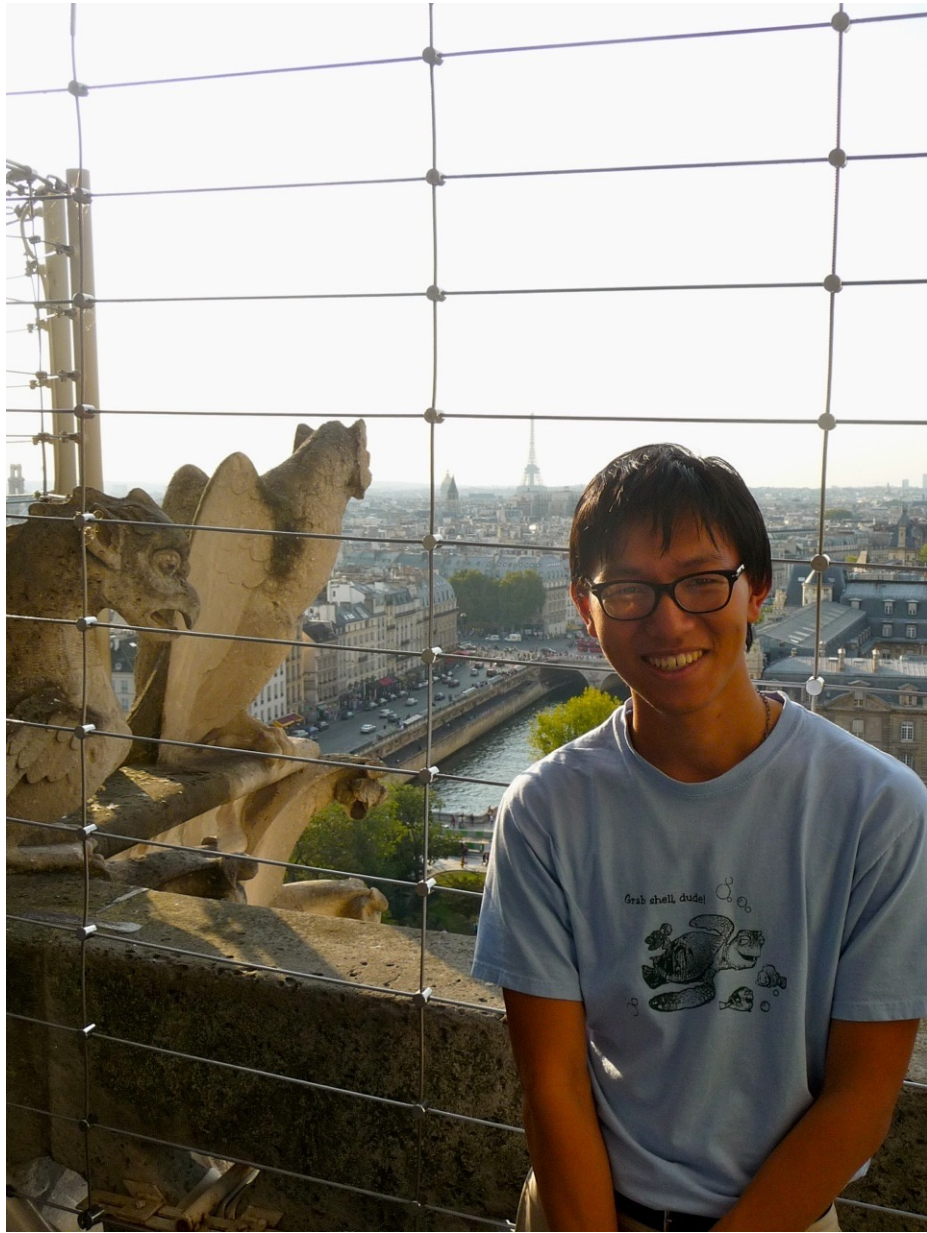
Campus Life

- Students live on campus in single dorm rooms
- There is very affordable on campus dining, as well as a kitchen to cook in
- Lots of clubs, and even more sports. Sports are a huge part of campus culture and are required for regular X students
- There is a week-long fall break, or reading week, in mid-October



What's there to do in Paris?

- About a 45 minute train ride from X – you' ll be there every weekend!
- Food (<http://www.timeout.com/paris/feature/food/pariss-best-cheap-eats>)
- Marie Curie walking tour:
http://hypatiamaze.org/m_curie/curie_walk.html
- Art!
 - Le Louvre (Mona Lisa, anyone?)
 - Musee d' Orsay (Hey Monet)
 - Centre Pompidou (inside out building)
 - Musee Carnavalet (Paris history – free!)



Ecoly Polytechnique Napoleon Uniforms Founded 1794 & Became Military Academy under Napoleon in 1804



[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)

Technicians out of uniform



Binets (Clubs)

- About 250 clubs
- Cultural, artistic, social, scientific, religious and sporting activities.
- Find out more at:
<https://programmes.polytechnique.edu/en/in-genieur-polytechnicien-program/student-life/student-organizations>

Horseback Riding!



Le Lac



Campus View



LE POLYTECHNIQUE CAMPUS

Academic Structure & Choosing Classes

Ecole Polytechnique Exchange

Overview:

<https://programmes.polytechnique.edu/en/exchange-programs/international-academic-exchange-program/admissions>

Ecole Polytechnique

- Can only do 3rd year of Ingenieur degree:
- Must take all 4 classes in your **Programme d'Approfondissement (PA)** (each = 9 Caltech units)
- **Must take French Language for 3 HSS Caltech units-** placement test is given. Can audit French lit, but exam is end of 3rd term so no credit.
- **Can take hum or social science depending on offerings and schedule, usually 3 credits**

Ecole Polytechnique Concentration Tracks

- ACADEMIC TRACKS
- Biology
- Bioinformatics
- Chemistry (Chem Eng also)
- Economics
- Electrical Engineering
- 21st Century Energies
- Computer Science

Ecole Polytechnique Concentration Tracks

- Technological Innovation
- Pure Mathematics
- Applied Mathematics
- Mechanics
- Physics
- Science of Cognition (CNS)
- Science for Environmental Challenges (GPS)
- Space Sciences

L'X Course Catalog

- 3rd year Ingenieur Program only:
- <https://www.polytechnique.edu/en/year-3-of-the-ingenieur-polytechnicien-program>
- Note again - 4 classes in one PA

Course Catalog

- STEM classes are 9 units each
- <https://moodle.polytechnique.fr/?langue=EN>
- Go directly to current year:
- <https://moodle.polytechnique.fr/course/index.php?categoryid=787>

Application Process

Students must turn in all Caltech application forms as well as
A French language evaluation form

DUE JANUARY 25

Caltech Application Requirements

Application Form

Core Course Checklist

2-3 Recommendation letters

Proposal

- Personal Statement
- Courses needed to graduate
- Program Fit
- Proposed Course List

Ecole Polytechnique Requirements

Application Form

Learning Agreement Form

Curriculum Vitae

An abstract of courses

Language Evaluation

A letter of statement in French

**Online Application Forms for Ecole Polytechnique will need to be
completed once you are nominated**

**DO NOT SUBMIT ANYTHING TO ECOLE POLYTECHNIQUE. EVERYTHING COMES TO
FASA.**

Avez-vous des questions?

