

École Centrale Paris

Mobility Programmes at ECP





Summary

1. ECP as a “*Grande École*”: not a common university
2. ECP as a generalist engineering school
3. Mobility programmes
4. *Groupe Écoles Centrales*
5. Centrale Paris Campus

1. ECP as a *Grande École*

- In France, there are two parallel systems of higher education:
 - Common universities
 - *Grandes Écoles*
 - ≈ Graduate Schools
 - ≈ Политехнические университеты
- Two kinds of *Grandes Écoles*:
 - Engineering
 - Business

Curriculum comparison

	
<i>Grandes Écoles</i>	3rd	M2	Common universities
	2nd	Master 1 (M1)	
	1st year	L3	
<i>Classes préparatoires</i>	Spé	L2	
	Sup	Licence 1 (M2)	
High school (18 years old)			

 Конкурс – entrance exam

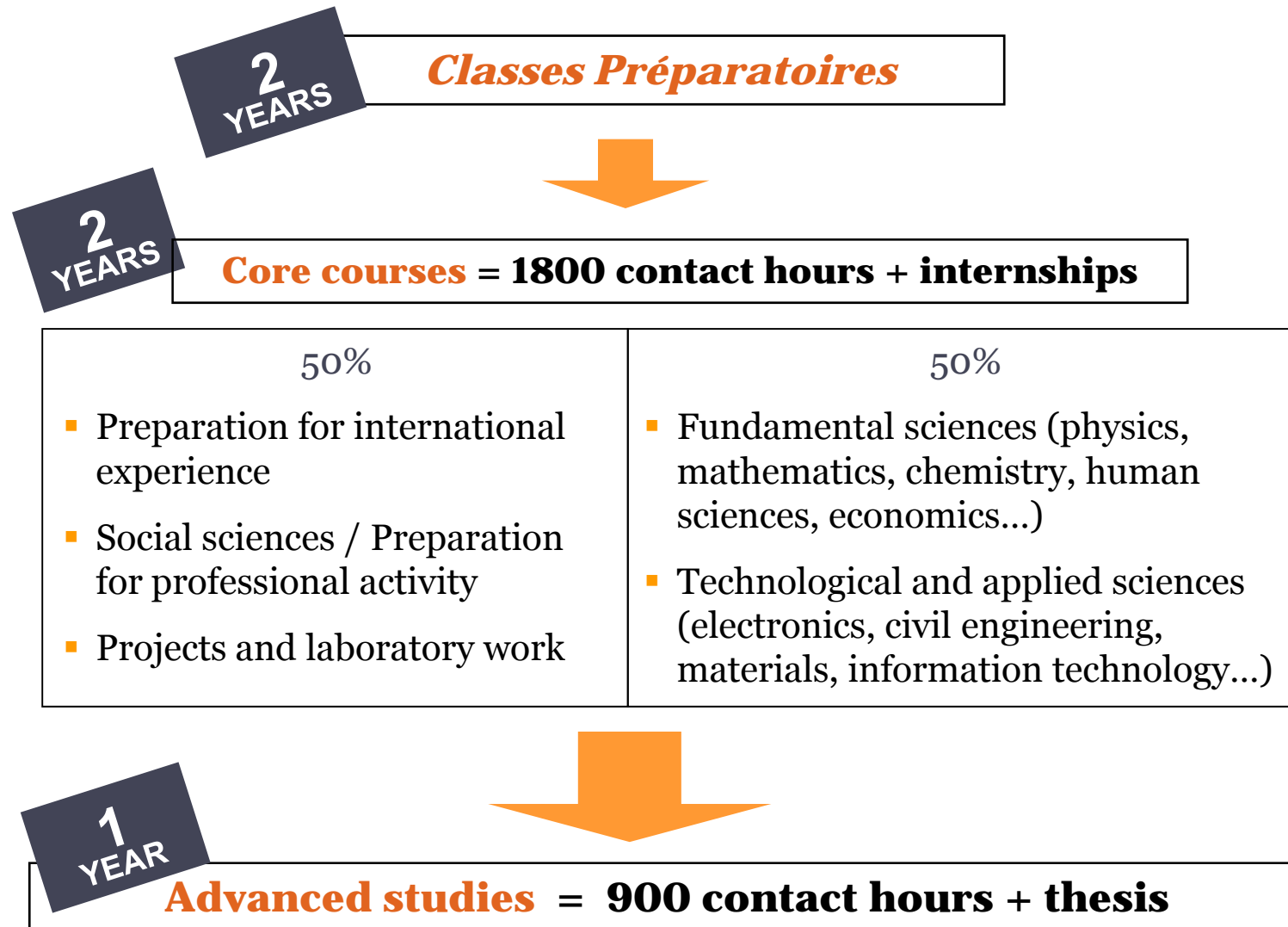
 Диплом – degree (all internationally recognised)



Why choosing a *Grande École*?

- Higher budget/student – same fees (public)
 - more teachers, better facilities
- Strong links with companies
 - R&D partners
 - lecturers
 - project subjects
 - internships/jobs
- 60% of the CEO of the 100 largest firms in France graduated from *Grandes Écoles*

2. ECP as a generalist eng. school



**1
YEAR**

Advanced studies = 900 contact hours + thesis

- Option (~ specialisation)
 - Industrial Engineering
 - Applied Mathematics
 - Mechanics & Aerospace
 - Physics & Applications
 - Advanced Systems
 - Energy
 - Process & Environment
 - Information Sciences
 - Planning & Construction
- Professional orientation
 - Entrepreneurship
 - International Project Management
 - Strategy & Finance
 - Conception & Industrialisation
 - Operational Management
 - Research
- Full-time internship
- Thesis



Strengths of a generalist engineer


- **Main features**
 - Wide knowledge of numerous scientific and technical disciplines
 - Competencies in economics and social sciences
 - Personal experience of the industry
 - Experience of team-work and project-work
 - Global vision & open-minded approach
 - High management potential
- **Positions**
 - All sectors of economy (industry & services)
 - Research, development and innovation
 - Senior positions as an expert or a manager

3. Mobility programmes at ECP

- 2-year programme: joint degree
 - *Diplôme d'ingénieur centralien*
- 1-semester or 1-year exchange programme
 - Licence L3 and Master M1 levels
- 1-year programme: Master degree
 - Master M2 level
- Possibilities of scholarships

4. Groupe Écoles Centrales



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- Students 1 500 engineering degrees per year
 - Staff 600 full-time Academic staff
1 950 part-time teachers/lecturers
450 technical & administrative staff
 - Budget 96 million euros
60% public / 40% private
 - Research 650 PhD students
260 full-time researchers
27 laboratories
33 million euros
 - Alumni 20 000 engineers in activity

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- **EC Lille**
 - Advanced Mechanics; Civil Engineering; Biochemical Engineering; Waves, Nano-electronics & Telecommunications; Electrical Engineering & Sustainable Development; Cybernetics & Onboard Systems; Process for Industrial Engineering; Informatics; Logistics
 - **EC Lyon**
 - Energy; Aeronautics; Transport & Traffic Analysis; Micro-, Nano- & Biotechnologies; Civil Engineering & Environment; Informatics & Communications; Mathematics & Statistics
 - **EC Marseille**
 - Mechanics, Acoustics & Ocean Engineering; Process for the Chemical Industry; Biochemical Engineering; Physics; Project Management; Mathematics & Informatics
 - **EC Nantes**
 - Material Sciences; Civil Engineering & Environment; Numerical Simulation in Mechanics; Product Development & Industrial Systems; Energy; Hydrodynamics & Ocean Engineering; Systems & Signal Processing; Informatics

5. ECP campus...



- 18 hectare, fully equipped (sport facilities)
- Very active student associations (organising events)

... 20 min from the heart of Paris



- Culture
 - Museums
 - Concerts
 - ...
- Gastronomy
 - Cafés
 - Restaurants
 - ...
- Nightlife
 - Bars
 - Clubs
 - ...



Further information

- <http://www.ecp.fr>
- English version:
http://www.ecp.fr/index_html_en
- Brochures under the Download section
- <http://www.groupe-ecoles-centrales.fr>

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