CENTRALE LYON

General Engineering

Degree level: General engineering
Training time: 3 years
Language: French
Status: Student
Campus: Lyon-Ecully Campus

Objectives



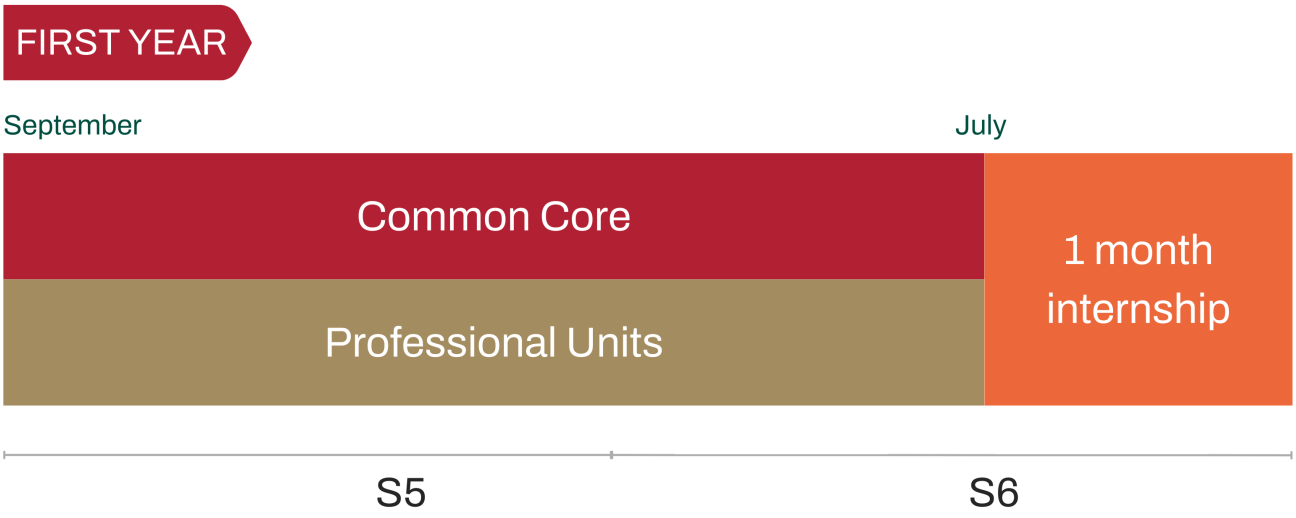
The **diploma in general engineering** is a **demanding, multidisciplinary training program** that provides answers to the complex issues linked to the major transitions in business and society thanks to a systemic approach.

Internationally recognized, this program combines scientific and technical training with international and corporate experience through projects and internships. It thus ensures a **deep understanding of contemporary challenges**. Tomorrow's leaders and entrepreneurs, graduates exercise their skills in a wide range of professional sectors.

Program

1st year 2nd year 3rd year

A first year between common core and discovery of engineering professions



Common Core: a common generalist culture

The **scientific, humanistic and economic disciplinary teaching** constitute the **essential baggage of the generalist engineer** Centrale Lyon. The UEs followed by the entire graduating class, each group together a set of training activities that can combine **lectures, tutorials, practical work and teamwork** on case studies.

10 EU
scientists
1 EU
languages and culture
1 EU
professional

Discover the core curriculum

Study projects

In the first year, a **scientific or technical problem** is submitted to the student engineers by the **teaching teams of the etablishment** or in **collaboration with partner companies and research laboratories**.

The groups, made up of**4 to 6 students**, are supervised by a teaching team for everything to do with project management, engineering sciences and human and social sciences. The **teaching team** is made up of **a scientific tutor**, **a communication advisor** and **a project management advisor**t.

The objectives of the study project are:

- confronting a complex problem with no single solution
- leading a team project
- seeking skills and information
- implementing means and obtaining results
- mastering written and oral communication

WEEX : Weeks of Engineering EXperience

WEEX (Weeks of Engineering EXperience) are **three weeks offered during the core curriculum** and dedicated to **developing the global vision of a project**. Students work on **innovation issues** in collaboration with partner companies or local players. They are tasked with proposing **innovative solutions around societal issues**(energy transition, waste treatment, mobility) through a **pluri-disciplinary approach**.

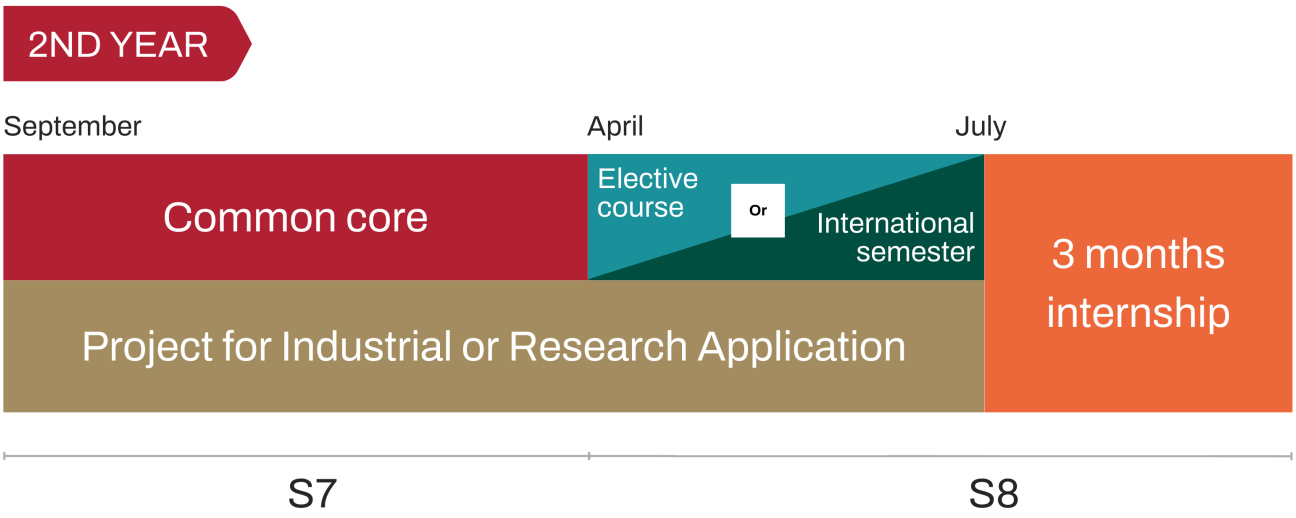
Students have to **design a model**, taking into account various parameters and **managing any mechanical, acoustic, geographical or environmental hazards**.... They interact, also learn to **manage tensions**, to **confront risks**. In this way, WEEX gives meaning to the core curriculum.

Execution internship

During the execution internship, the student trainee discovers and performs the work of an operator over a minimum four-week period. This internship is designed to introduce students to the workings of a company, the nature of execution work and the

relationships between operators and managers.

A second year from general education to personalized career path



Common core: a common generalist culture

In the second year, engineering students finalize their common core teaching during the first semester (S7). A "UE d'approfondissement" (in-depth study) enables them to study a theme in greater depth in two different scientific UEs to be chosen from a total of 32, with a small number of students (24).

Discover the S7 core curriculum

Application project

In 2nd year, the project activity continues in two different forms to choose from:

- The **Industrial Application Project (PAi)** enables 2nd year students to confront a **project of an industrial nature**. This involves a subject (technical, market analysis or intelligence) **defined by a sponsoring company** and handled under its supervision. Students are accompanied by a project advisor who guides them throughout the 7-month activity.
- The **Research Application Project (PAr)** constitutes a first **individual research experience** with personalized supervision in one of the École's laboratories.

One semester to choose from: elective pathway or international mobility

Elective path

In the second year, students can choose **5 courses from nearly 60 on offer**. It enables student-engineers to deepen the concepts seen in the core curriculum or to discover other disciplinary fields. The organization allows for strong specialization or a balanced path, depending on each student's project.

Discover the elective path catalog

International mobility

Engineering students can also choose to **validate their second semester (S8) at a foreign university for 30 ECTS or equivalent**. These exchanges can take place at one of Centrale Lyon's partner universities, under the Erasmus program or outside it.

Students can also **follow a semester-long laboratory research project** subject to validation of the project by a Centrale Lyon scientific correspondent professor.

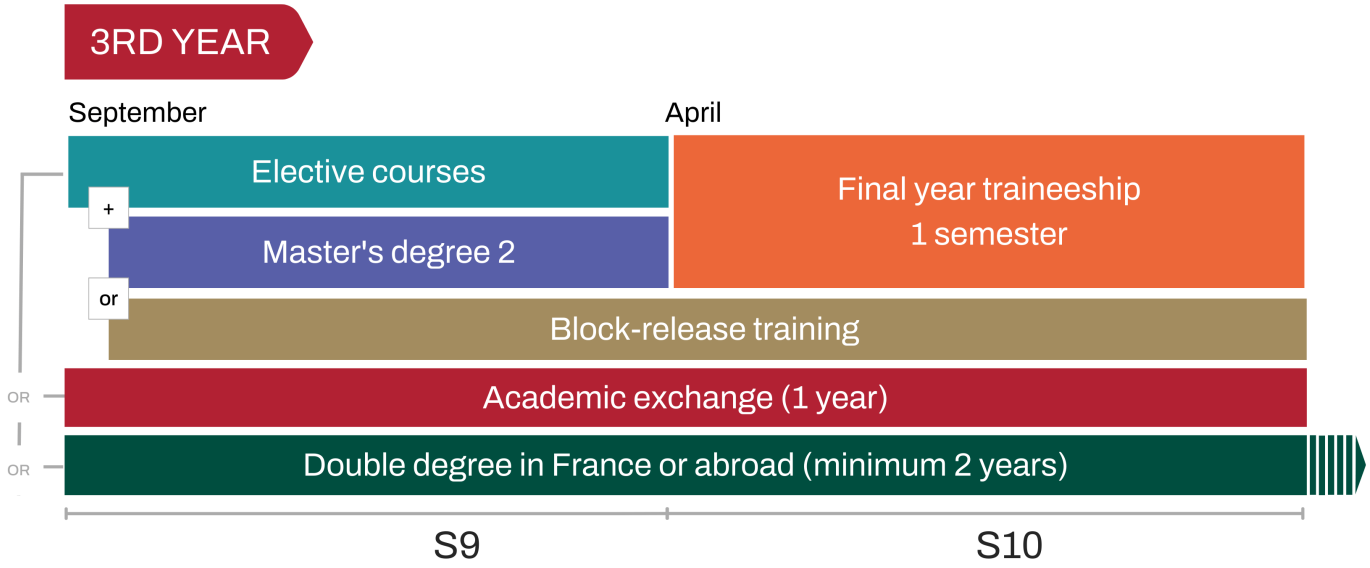
Discover the map of international partnerships

The application internship

Conducted at the end of the second year, the application internship lasts a **minimum of 3 months** and must be completed by the start of the following academic year. The aim of the application internship is to introduce students to engineering professions through **active integration into an engineering team**.

The function performed and the work carried out correspond, over a relatively short period, to what is required of an engineer at the start of his or her career. It's also an opportunity to **apply the knowledge and skills acquired at Centrale Lyon**.

A third year à la carte



An à la carte pathway

The third year of the general engineering curriculum offers **many pathway possibilities** . Whether it's a more in-depth study of a particular sector, an academic exchange, or a double degree in France or abroad, each student builds his or her career path according to his or her professional project.

An elective course at Centrale Lyon

In the third year, students can pursue the elective path and customize their courses from among all the UE offered within Centrale Lyon.

9 COURSES TO CHOOSE from more than 50 themes

1 BUSINESS COURSE

- Consulting engineer
- Eco-design and innovation engineer
- Supply chain and business performance engineer
- Industrial and environmental risk management engineer
- Research engineer, innovation and development
- Intrapreneur and entrepreneurial engineer

1 SECTORAL COURSE

- Aeronautics
- Bioengineering for health
- Energy
- Physical for major transitions
- Ecological transition and territories
- Informatics
- Mathematics and decision-making
- Transport, mobility and decarbonation

Learn more

A third year in work-study

At the end of the 2nd year, the student engineer now has the option of doing the 3rd year through the **professionalization contract** route. For student engineers, the professionalization contract enables them to:

- foster discovery of the professional environment through experimentation and hands-on experience over the course of a year, alternating with a company
- gain in maturity
- refine their life project and career choice
- develop experience before the end of their academic course
- acquire a dual skill set: a function in the company linked to the target profession and technical and sector-specific skills linked to the option.

For the company, it's an opportunity to benefit from the talent and skills of a Centrale Lyon student-engineer.

An academic exchange in France

As part of its various partnerships with the Groupe des Écoles Centrale, the Collège d'ingénierie Lyon Saint-Étienne and emlyon business school, Centrale Lyon offers its students the opportunity to **open up their fields of expertise and take their third year at another institution**.

In addition, **exchanges of courses within the curriculum** are possible at member institutions of the CHELS.

Know More

A double degree in France or abroad

Engineering students can take a double degree with one of the Etablishment's partner institutions in France or abroad. Some courses are accessible from the first year.

Find out more

Going international

Engineering students must undertake international mobility to validate their curriculum. This mobility can take various forms:

- a semester or year of exchange
- a double degree
- an internship
- a gap year

Discover the international partners map

Grandes Écoles double degrees

Thanks to prestigious partnerships, Centrale Lyon offers numerous double degree opportunities to its student-engineers, some of which are accessible as early as the first year.

Architect Engineer

Engineer Doctor

Quantity Surveyor

Engineer Manager

Research engineer

Design Engineer

Public Policy Engineer

All double degrees

Grandes Écoles double degrees

Thanks to prestigious partnerships, Centrale Lyon offers numerous double degree opportunities to its student-engineers, some of which are accessible as early as the first year.

Découvrir tous les double diplômes

Diplomas and certifications

This course delivers a national engineering diploma, controlled by the State and accredited by the Commission des Titres d'Ingénieur.





Career opportunities

The training provides access to a wide range of functions in many sectors and all types of public and private organizations.

Focus

- A pedagogy combining theory, digital technology and experimental practice
- Project-based activities through cross-disciplinary scenarios
- A wide choice of specializations and double degrees

Admission requirements and application

Post Bac Post CPGE Post bac+3 International students

The Centrale Lyon general engineering program is accessible via the CapECL integrated preparatory cycle. This 2-year curriculum provides intensive scientific training in mathematics and physics-chemistry. Students are brought together in a small class of 24 students with dedicated teachers for personalized follow-up.

Read more

Concours CentraleSupélec

The main admission route to Centrale Lyon is the CentraleSupélec competitive entrance exam. Students who pass this competitive entrance exam are admitted as student engineers.
Preparation for the competitive entrance exam generally takes place in the classes préparatoires aux grandes écoles (CPGE) scientific high schools. The level corresponds to a minimum of two years of preparation after the baccalauréat.

127 places
MP program

82 places
PSI program
15 places
MPI program

62 places

PC program
62 places
PC program

5 places
BCPST program
24 places
PT program

The competition is managed by the Service du Concours located at Centrale Supélec (SCEI): information, registration files, requests for transcripts, information on organization or progress, complaints...

Website of the Engineering Schools Entrance Exam Service

Le Concours Universitaire des Écoles Centrale

The general engineering programme is open to students who have completed three years of higher education via the Concours Universitaire des Écoles Centrale (a joint recruitment process for Écoles Centrale engineering schools).

Who can apply?

The Concours Universitaire des Écoles Centrale is open to students in their final year of a Bachelor's degree or equivalent (in a scientific field).

The specialisations open to the competitive entrance examination include:

- Mathematics
- Mechanics and civil engineering
- Physics
- Computer science
- Electrical energy, automation (EEA)

Places available

The Écoles Centrale Group offers around 100 places each year, including 15 at Centrale Lyon.

How to apply

The admission process consists of two stages:

- A preliminary selection based on the application (around 300 candidates, with nearly two-thirds selected)
- An entrance exam consisting of three written science tests, an online interview and an online English test.

Places offered

The Écoles Centrale Group offers 75 places each year (including 20 offered by Centrale Lyon).

How to apply?

The admission procedure takes place in two stages:

- A pre-selection carried out on the basis of applications (around 300 candidates and almost 2/3 selected)
- A competitive examination comprising a written scientific test, an oral scientific test, an English test and then an interview.

Read more

As an international student, you can enrol in Centrale Lyon's general engineering programme to obtain an engineering degree or earn ECTS (European Credit Transfer System) credits.

Academic exchanges

With more than 140 academic exchange agreements, Centrale Lyon offers international students the opportunity to participate in an academic exchange (semester or year) or a dual degree programme for its general engineering programme. You must contact the registrar's office at your home institution to find out about admission requirements.

Discover our international partners

Double degree

As part of a partnership between your university and Centrale Lyon, you can enrol in a programme leading to a double degree:

- The Centrale Lyon engineering degree
- The degree from your home university

Exchange year (Master's 2 level)

You can spend a full year at Centrale Lyon, in your third year, choosing:

- A sector-specific specialisation option
- One of the professional tracks offered

Exchange semester (Master's 1 or 2 level)

You also have the option of coming for a semester, in your second or third year, in order to earn ECTS credits as part of your degree programme.

Admission via international competitive examination

Candidates who have not completed higher education in France and who are nominated by a secondary school in conjunction with the French Embassy may enrol in the international programme. As such, Centrale Lyon offers:

- 8 places for the MPC programme
- 1 place for the PC programme
- 1 place for the PSI programme
- 15 places for the MP programme

Discover the Centrale Supélec competition website

Auditor

It is also possible to attend classes as an auditor, without obtaining a degree or credits, under certain conditions.

Contact the International Relations Office

Tuition fees

Starting in the 2026 academic year, Centrale Lyon will implement a sliding scale for tuition fees for the entire engineering programme. Fees, which will now be calculated based on taxable income, will range from €1,613 to €4,113 per year. A full exemption is maintained for students receiving CROUS grants.

Access the simulator

Students who enrolled on the general engineering programme between 2018 and 2025 are subject to the old fee structure.

Administrative contact

Scolarité - Cycle ingénieur généraliste

Informations et inscriptions

scolarite.inscription-lyon@listes.ec-lyon.fr

Educational contact

Breard Arnaud

Enseignant-Chercheur

arnaud.breard@ec-lyon.fr

Useful link

- Training syllabus