

General presentation

The "International Track in France" is a 2-year program leading to the degree of Master in Life Sciences and Health that will open September 1st 2018 for the academic year 2018-19 at the University of Paris-Saclay. The application process will start mid-February 2018.

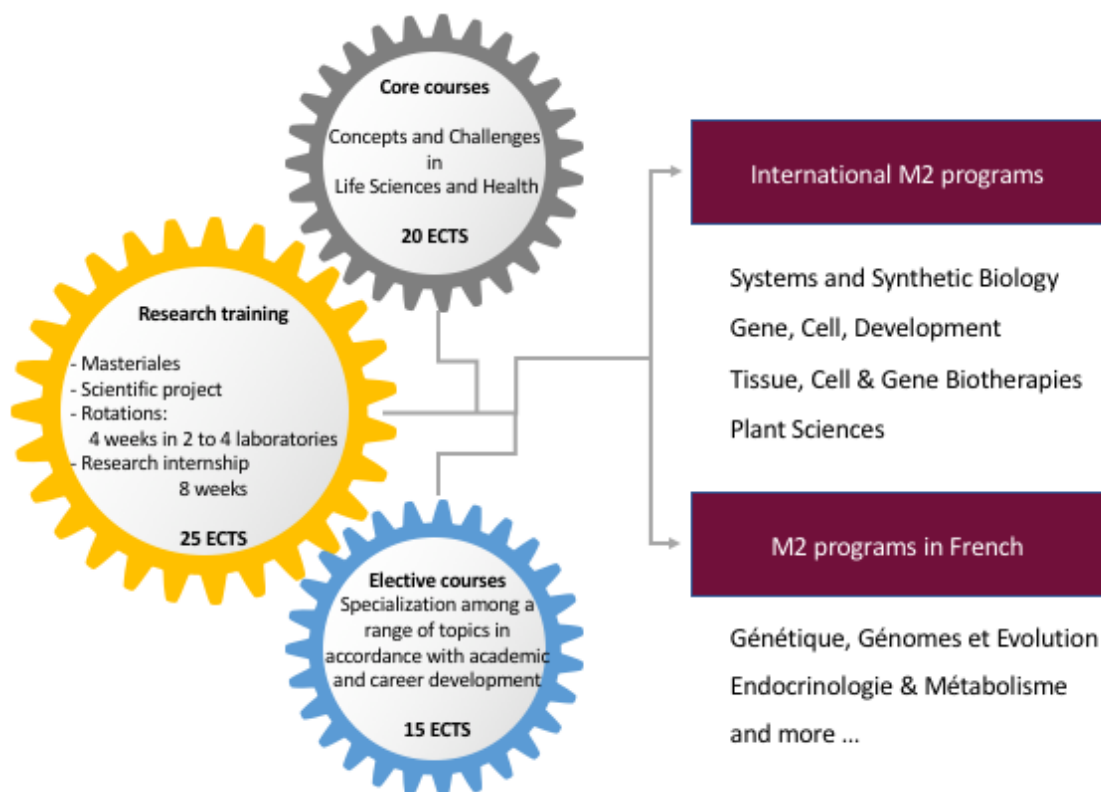
The "International Track in France" combines a Master 1 program for English-speaking students with any of the International Master 2 programs listed below:

- M2 Gene, Cell, Development
- M2 Systems and Synthetic Biology
- M2 Tissue, Cell and Gene Biotherapies
- M2 Plant Sciences

International students with a sufficient level in French can also apply to other French-taught Master 2 programs offered by the University of Paris-Saclay.

A full-time student will need to validate **60 ECTS** (European Credit Transfer System) during each of the two academic years to complete the Master program.

General architecture



Program Content

The pluridisciplinary Master 1 program is composed of two semesters of study, 30 ECTS each, for a total of 60 ECTS. It is divided into three parts.

Part 1: Core Courses (20 ECTS)

During the first part of the program, ALL students will take the following courses that address key Concepts and Challenges in the following basic fields of Life Sciences and Health:

- Genetics and Genomics
- Cellular Biology
- Biochemistry and Cell Signaling
- Systems biology

This part of the program will be mostly based on active learning which includes reverse approaches and problem-based activities.

Part 2: Elective Courses (15 ECTS)

During the second part of the program, students will choose among a wide range of elective courses in accordance with their academic and career development goals. Some of the areas of study include:

- Animal transgenesis
- Biotherapies
- Applied genomics and precision medicine
- Synthetic biology

Additional elective courses may also be provided but these will only open if there is a **minimum** of 10 registered students. Some elective courses cannot be chosen together because of schedule conflicts.

Part 3: Research training (4-week laboratory rotation period + 8-week internship, 25 ECTS)

We are offering a research-driven Master program through which students can focus on their own research interests and can develop individual research trajectories.

The concept of "Masteriales" asks to students to organize in small groups and to design an innovative thematic and/or technological research project in a limited time (48h). At the end, they have to present their project in an argumentative manner in front of a jury of academic and private scientists, institutionals, communication specialists and financials. Students will also have to write a proposal to a call for a virtual research grant. Taking place from the first days of the academic year, the annual edition of the "Masteriales" allows a better group cohesion, a possible disinhibition and a confidence of students in themselves. They also discover some of the difficulties inherent in designing research projects.

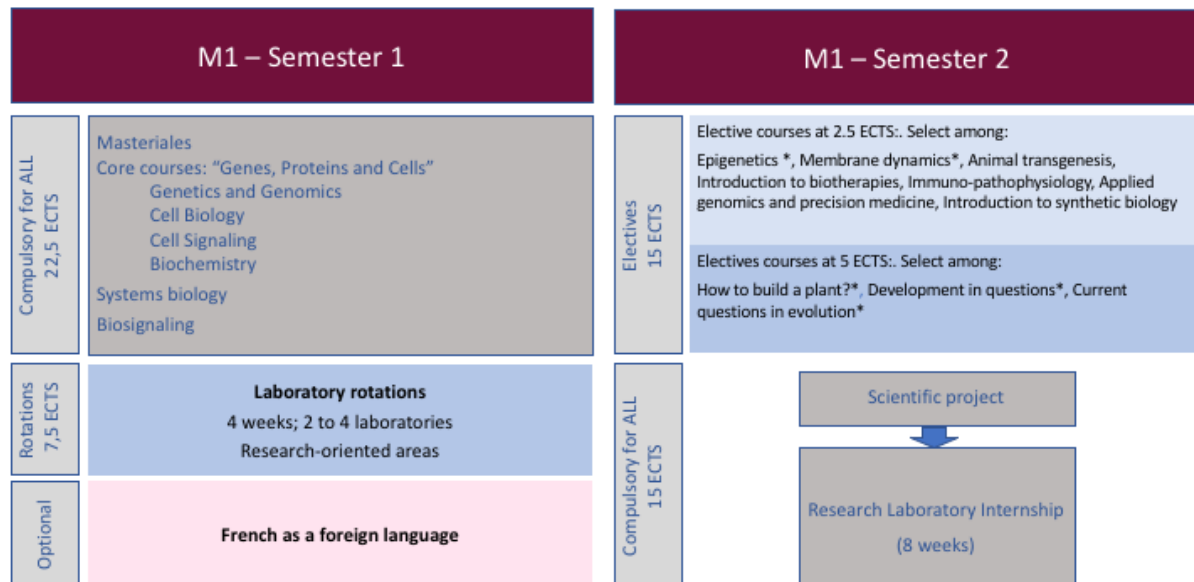
During the first semester, students will rotate between 2 to 4 laboratories for a period of 4 weeks in University of Paris-Saclay partner Institutions in the field of Life Sciences. Rotations cover a wide range of research topics and will address issues on how model organisms advance science.

During the second semester, students will be tutored in a teaching unit leading to the conception of a research project that will be undertaken during an 8-week internship in a host

scientific laboratory. This training provides students with an ideal opportunity to prepare for a career in research (in both academic and private settings).

Optional:

In addition, French language training for non-French speakers will also be provided to allow students to develop their communication skills (French as a foreign language).



Program Goals

The aim of this Master program is to provide a solid and broad-based foundation in prominent areas in Life Sciences and Health. In addition, given the elective courses offered, and the intensive research training internship, students will obtain both theoretical and practical experience in their fields of interest.

Competences and skills to be acquired in the field of Life Sciences and Health are:

- ability to comprehend general scientific developments
- in-depth and critical analysis of scientific literature in specialized international journals
- formulation of new questions and hypotheses
- communication with professionals
- ability to design and implement scientific experiments
- ability to describe, analyze and report on research data
- development of practical skills
- autonomy

Scholarship program:

Candidates for the International track (2 years) and Mater 2 programs (1 year) with an outstanding academic record are encouraged to apply for scholarships offered by the University of Paris-Saclay ([Scholarship program](#)).

Why choose this Master?

You will experience a newly-created and innovative study environment located on a world-class and highly-competitive campus and research site in Europe <https://www.universite-paris-saclay.fr/en/the-university>. This international opportunity will expand your horizons and enhance your personal development. Demands for graduates with an international cursus are constantly increasing due to the transverse skills they have acquired such as cultural awareness, language skills, adaptability, resilience, just to name a few. In terms of career opportunities, your international experience will prove be an extremely valuable asset.

Prerequisites

A bachelor's degree corresponding to a "Licence" in France (L-M-D European system, 180 ECTS, 3-year program) or equivalent academic qualification in Science (with a Biology content) from an internationally-recognized University is required.

English language proficiency equivalent to the COE/ALTE (Council of Europe/Association of Language Testers in Europe) English course B2 level is required.

- IELTS (International English Language Testing System): 5.0-6.0
- TOEFL (Paper Based, Test of English as a Foreign Language): 567-633
- TOEFL (Internet, Test of English as a Foreign Language): 87-109
- TOEIC (Listening and Reading, Test of English for International Communication): 785-940
- CAMBRIDGE ENGLISH LANGUAGE ASSESSMENT: FCE (First Certificate in English)

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Site

