MSc in chemical and biochemical engineering

Success conditions
  Internship
  Minor
  Master project

Official curriculum:
https://sac.epfl.ch/study-plans-regulations
Curriculum of MSc

MSc cycle in 90 credits

Semesters 1 & 2

60 credits

30 credits

Academic minor

Industrial internship

Academic MSc thesis

30 credits

Industrial MSc thesis

or

Academic MSc thesis
Minimal requirements for getting **Bloc 1**

http://sb.epfl.ch/page-121142-en.html

a) Enroll (= IS-Academia) in all courses = 14 ECTS
b) Present all the exams

c) Get a general score $\geq 4.00$ (scale 1 to 6)

Quotation at quarter of point
Minimal requirements for getting **Bloc 1**

- Every individual mark $\geq 4.00$ leads to gain the course related credits
- If one or several marks are $< 4.00$ but the general score of the bloc is $\geq 4.00$, the full credits are also allocated.

**Calculation:**  \[ \frac{\sum (\text{mark} \times \text{credit})}{\sum \text{credits}} \geq 4.00 \]

(Modules don’t have to be passed individually)
Minimal requirements for getting **Bloc 2**

a) Enroll (= IS-Academia) in all courses of 3 modules = **18 ECTS**

b) Select other courses for at least **10 ECTS** in other modules, in the Bloc 2 list, in the MSc in chemistry or in other masters after agreement of your MSc advisor: **Prof. K Sivula**.

c) Present all the exams

d) Get a general score $\geq 4.00$ (scale 1 to 6)
Master’s calendar

- **2017**
  - Fall Semester
  - Christmas break
  - End of November
    - Deadline Minor

- **2018**
  - Exams
  - Spring Semester
  - End of June
    - Deadline internship

- **2019**
  - Exams
  - Internship (4 to 6 months)
    - or
    - Minor
  - End of Semester
    - Deadline MSc thesis
MSc thesis versus Internship

**MSc thesis**
- Under the responsibility of a EPFL Prof. or MER
- Personal research
- Original work
- Publishable
- MSc thesis
- Thesis defense
- Jury gives a grade

**Internship**
- Under the responsibility of the industrial partner
- Integration in a team
- Industrial project
- Confidentiality
- Internal research report
- Internal oral presentation
- No grade
Industrial internship

• Your advisor: Catherine Marselli

• Dedicated information during the Fall semester
EPFL Minor program aims to propose compl. studies (30 credits = one semester) with 2 options:

Transdisciplinary minors: courses in a specialized field
Disciplinary minors: core courses from BSc/MSc of a specific section

Enrollment: contact the Minor’s advisor.
List of minors: sac.epfl.ch/study_plans

Registration deadline: End of November

Major and Minor can be taught together!
Consequences for the MSc thesis

- If an industrial internship is completed, the Master’s thesis must be done in academia (EPFL or in an University abroad).
- If a minor is completed, the Master’s thesis must be done in industry.
- The 90 credits (Master cycle including Internship or Minor) must be obtained before starting the Master thesis.
  
  ie. for most of you MSc thesis is scheduled for Spring 2018
- An information about the Master thesis will be given next semester.
**New joint double master with ENS Lyon**

Curriculum in 3 years.
One year: MSc in chemical engineering and biotechnology – EPFL
One year: MSc in science of matter – ENS Lyon
6 months internship
MSc thesis at EPFL or ENS Lyon

Eligible for students with average grade of 5/6
(Not open for incoming students)

Application: Jean-Luc Marendaz before end of January.