

**REGULATIONS FOR THE APPLICATION OF
THE STUDY CONTROL OF THE
ENVIRONMENTAL SCIENCE AND
ENGINEERING SECTION
for the 2021-2022 academic year
May 26, 2021**

*The management of the Swiss Federal Institute of
Technology Lausanne*

Having regard to the ordinance on education leading to the bachelor and master degrees of the EPFL of June 14, 2004,
Having regard to the ordinance on the control of studies leading to the bachelor's and master's degrees at EPFL of June 30, 2015,
having regard to the study plan of the Environmental Sciences and Engineering Section

stop:

Article 1 - Scope of Application

The present regulation establishes the rules of application for the control of bachelor and master studies of the section of environmental sciences and engineering which refer to the academic year 2021-2022.

Art. 2 - Training stages

- 1 The bachelor's degree consists of two successive stages of training:
 - the one-year propaedeutic cycle, the successful completion of which results in 60 ECTS credits acquired at once, a condition for entry into the bachelor's cycle.
 - the two-year Bachelor's program, which requires 120 credits to enter the Master's program.
- 2 The master's degree is composed of two successive stages of training:
 - The Master's program lasts 3 semesters and requires the acquisition of 90 credits, including 30 credits of a minor or a specialization, which is a condition for completing the Master's project.
 - The Master's project, which lasts 17 weeks and results in the acquisition of 30 credits, is placed under the responsibility of a professor or MER affiliated to the Environmental Sciences and Engineering Section. Before the start of the project and on the proposal of the supervisor, the section may extend the duration to 25 weeks for projects carried out outside EPFL.

Art. 3 - Examination sessions

- 1 Sessional courses are examined during the winter or summer sessions. They are indicated in the study plan with the mention H or E.

- 2 Semester courses are taken in the fall or spring semester. They are indicated in the syllabus as sem A or sem P.

- 3 An annual branch, i.e., one that is titled on a single line in the study plan, is examined as a whole during the summer session (E).

- 4 For the sessional branches, the written or oral form of the examination indicated for the session may be supplemented by written or oral tests of knowledge during the semester, as indicated by the instructor.

Chapter 1: Preparatory Cycle

Art. 4 - Preliminary examination

- 1 The propaedeutic exam includes "Polytechnic" branches for coefficients³⁶ and "Specific" branches for coefficients²⁴, distributed indifferently on two blocks.
- 2 The first block of branches corresponds to 36 coefficients and the second block of branches corresponds to 24 coefficients.
- 3 The propaedeutic examination is passed when:
 - the student has obtained, at the end of the winter semester, an average of 3.50 or more in the first block, which is a requirement for entry into the spring semester, and
 - that, at the end of the summer session, he/she has obtained an average of 4.00 or more in each of the two blocks, a condition for entry into the bachelor's program.
- 4 A student who fails the propaedeutic examination will not be allowed to repeat the following year the semester branches for which he/she has obtained a grade equal to or higher than 4.00.

Chapter 2: Bachelor's Degree

Art. 5 - Organization

The courses in the Bachelor's program are divided into 8 blocks.

Art. 6 - 2^{ème} year examination

- 1 Block 1 "Basic Sciences I" is passed when the credits of the **17 credits** of the study plan are obtained.
- 2 Block 2 "Environmental Sciences I" is passed when **20 credits** of the study plan are obtained.

3 Block 3 "Engineering Sciences I" is passed when **15 credits** of the study plan are obtained.

Art. 7 - 3^{ème} year examination

1 Block 4 "Basic and Environmental Sciences II" is passed when the **credits22** of the study plan are obtained

2 Block 5 "Engineering Sciences II" is passed when at least **credits21** of the study plan are obtained.

3 Block 6 "EIS Electives" is passed when **9 credits** of the study plan are obtained. If the number of credits presented exceeds the required number, the average of the block is calculated on the basis of all the branches examined.

4 Upon request, students may take one or more courses (excluding SHS) in the Bachelor's program of another EPFL section. The student's choice must be justified and approved in advance by the section.

Art. 8 - Common examination of the 2nd and 3rd year

1 Block 7 "Projecting Together" is passed when the **8 credits** of the study plan are obtained.

2 Block 8 "SHS and MGT transversal" is passed when the **8 credits** of the study plan are obtained.

Chapter 3: Master Cycle

Art. 9 - Organization

The master's degree courses are divided into :

- 1 block of "Core courses" leading to **20 credits**, including SHS teaching,
- 1 block of "SIE specific courses" leading to **25 credits**,
- 1 group "SIE optional courses" for a total of **45 credits**.

Art. 10 - Options

1 In the "SIE optional courses" group, the student can choose branches offered by the EDCE doctoral school, other EPFL sections or other academic institutions for a maximum of credits. 9

2 The student must justify his/her choice of options outside the section and have it endorsed by the section.

Art. 11- Specializations and minors

1 In order to deepen a particular aspect of his or her training or to develop interfaces with other EPFL sections, the student must follow the training offered in the framework of a specialization of the Environmental Sciences and Engineering section or a minor included in the EPFL offer.

2 The specializations offered by the section are as follows:

- A Chemical and Environmental Bioprocess
- B Water, Soil and Ecosystems Engineering
- C Monitoring and Modeling of the Environment

3 The specializations consist of certain "Specific courses" and "Optional courses" chosen by the student from a list mentioned in the study plan.

4 For a specialization, branches not included in the official list of the section may be chosen by the student with the prior agreement of the section.

5 The selection of courses that comprise a minor is made with the Environmental Science and Engineering section and the minor chair. The "Environmental Science and Engineering" minor may not be selected.

6 The student announces the choice of a specialization or a minor to his or her section no later than the end of the first semester of the Master's degree.

7 A minor or specialization is successful when a minimum of 30 credits are earned from the endorsed branches. The student who has chosen a minor must take the balance of the options (15 credits) in the "SIE optional courses" group.

8 If the minor is dropped during the course of study, the Environmental Science and Engineering section determines the number of validated credits to be transferred to the option group.

Art. 12 - Examination of the master cycle

1 The "Core courses" block is passed when the **20 credits** of the study plan are obtained.

2 The "SIE specific courses" block is passed when **25 credits** of the study plan are obtained.

3 The "SIE optional courses" group is passed when **45 credits** are obtained.

4 Students who choose the Territorial Development and Urban Planning minor must acquire a minimum of 30 credits from among the subjects proposed by the study plan for the minor. He/she may validate only one teaching unit within the framework of this minor.

Art. 13 - SHS education

The two SHS branches are each worth 3 credits. The fall semester course introduces the spring semester project. The College of Humanities and Social Sciences may depart from this organization if it considers that the reason is justified. It may also authorize a student to carry out his or her project in a semester that does not immediately follow the semester in which the introductory teaching takes place.

Chapter 4: Internship

Art. 14 - Engineering internship

1 Students must complete an engineering internship of at least 8 weeks and no more than 6 months between the end of the Bachelor's program and the beginning of the Master's project. However, the completion of a 25-week master project in a company exempts students from this obligation.

2 The internship is evaluated by the assessment "successful" or "not successful". Successful completion of the internship is a prerequisite for admission to the master project. If the internship is not successful, it can be repeated once, usually in another company.

3 The internship is validated with the 30 credits of the master project.

4 The organization of the internship and the criteria for its validation are the subject of an internal directive of the section.

Chapter 5: Mobility

Art. 15 - Authorized periods of mobility

Students of the Environmental Sciences and Engineering section can carry out a mobility stay in the 3rd year of their Bachelor's degree and/or as part of their Master's project.

Art. 16 - Conditions

1 For a mobility in the 3rd year of the Bachelor program, the student must have passed the propaedeutic exam with a minimum average of 4.5 and not be behind in the acquisition of the 60 credits of the 2nd year of the Bachelor program.

2 For a mobility to the master project, the student can be conditionally admitted if he/she has no more than 8 missing credits in the master cycle.

3 Specific conditions exist depending on the destination, the agreement of the mobility delegate is necessary to go on a mobility stay.

On behalf of the EPFL management

The President, M. Vetterli
Academic Vice President, J. S. Hesthaven

Lausanne, May 26, 2021