

BIO-502	Lab immersion II				
	Profs divers *				
Cursus		Sem.	Type	Language of	English
Bioengineering	9	MA1, MA2,	Opt.	teaching	Liigiisii
		MA3, MA4		Credits	8
Life Sciences Engineering		MA1, MA2,	Opt.	Withdrawal	Unauthorized
		MA3, MA4		Session	Winter,
Neuroprosthetics minor		Н	Opt.	Semester Exam	Summer Fall
Sciences du vivant		MA1, MA2, MA3, MA4	Opt.		During the semester
		100 (0, 100 (4		Workload	240h
				Weeks	14
				Hours	8 weekly
				TP	8 weekly
				Number of	
				positions	
				It is not allowed to withdraw from this subject after the registration deadline.	

Summary

The student will engage in a laboratory-based project in the field of life sciences engineering. Student projects will emphasize acquisition of practical skills in experimentation and data analysis.

Content

A typical project will involve "hands-on" wetlab experimentation and data analysis, although

theoretical and computationally-oriented projects are also possible. The projects are available on the web sites of SV laboratories (including core facilities) or discussed directly with a potential head of lab.

The students are confronted with the realization of a laboratory-based project integrating specific aspects of life sciences engineering.

This project will allow them to apply, to concrete problems, skills of domain and transversal skills acquired during their studies.

Projects have to be done in an EPFL lab.

Learning Prerequisites

Required courses

Bachelor in Life Sciences Engineering

Expected student activities

Students will focus on hands-on experimentation, which may be wetlab-based or computer-based, depending on the project. Students will read and discuss assigned papers from the original

scientific literature. As part of the evaluation process, students may be required to submit a written report or to give an oral presentation that summarizes and interprets their results.

Total workload: 16h/week during 14 weeks or 5-6 weeks full time (42h/week)

Can be done during the autumn or spring semster or in between two semesters.

Assessment methods

Continuous control

The mode of evaluation must be clearly defined and agreed between the student and the project mentor in advance. Typically the mode of evaluation will include a written report and /or an oral presentation prepared and delivered by the student.

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