



Présentation

Seules les trois premières années sont ouvertes au titre de l'année 2023-2024.

Programme

1ere annee

Semester 1

Transversal and languages disciplines

- Comprehensive English 4 ECTS

Biology chemistry

- Introduction to life sciences and health 1.5 ECTS
- Inorganic and analytical chemistry 4.5 ECTS
- Experiments in inorganic and analytical chemistry 2.5 ECTS

Support disciplines

- Calculus (IV) 5.5 ECTS
- Fundamentals of Object-oriented Programming in C++ 2.5 ECTS

Semester 2

Transversal and languages disciplines

- Methodology (I) 1.5 ECTS

Biology chemistry

- Organic chemistry 3.5 ECTS
- Experiments in organic chemistry 2.5 ECTS
- Experiment in general biology (I) 2.5 ECTS
- General biology (I) 4 ECTS

Support disciplines

- Probability Theory 3 ECTS
- Medical physics 4.5 ECTS
- Experiment of physics (I) 2.5 ECTS

2eme année

Semester 3

Transversal and languages disciplines

- PIX digital skills 1.5 ECTS

Biology chemistry

- Chemistry biology : at the origins of life 1.5 ECTS

- Biochemistry (I) 3.5 ECTS
- Experiments in biochemistry (I) 2 ECTS
- Cellular biology 4 ECTS
- Experiments in cellular biology 2 ECTS

Support disciplines

- Thermochemistry 2.5 ECTS
- Structure of matter 1.5 ECTS
- Mathematics for biology (MSV10-I) 1.5 ECTS

Semester 4

Support disciplines

- Bioinformatics 2.5 ECTS

PPEI (Personal study and integration project)

- PPEI (Personal study and integration project) 2 ECTS

Transversal and languages disciplines

- Methodology (II) 1 ECTS

Biology chemistry

- Genetics 3 ECTS
- Experiments in genetics 2.5 ECTS
- Microbiology 3 ECTS
- Experiments microbiology 1.5 ECTS
- Biochemistry (II) 3 ECTS
- Molecular Biology 4 ECTS
- Laboratory for Molecular Biology 2 ECTS
- Experiments in biochemistry (II) 2 ECTS

3eme année

Semester 5

Support disciplines

- Mathematics for biology (MSV10-II) 1.5 ECTS

Transversal and languages disciplines

- History of science 1.5 ECTS

Biology chemistry

- Plant physiology (I) 2.5 ECTS
- Immunology lab 2 ECTS
- Anatomy and physiology 4 ECTS
- Immunology 3 ECTS
- Laboratory for anatomy and physiology 2.5 ECTS
- Virology 3 ECTS

Semester 6

Transversal and languages disciplines

1 option(s) au choix parmi 2	
- French (I)	2.5 ECTS
- Chinese (I)	2.5 ECTS

Biology chemistry

- Principale of gene engineering or another disciplinary	2.5 ECTS
- Plant physiology (II)	2.5 ECTS
- Genomics	3 ECTS
- Introduction to synthetic biology	2.5 ECTS
- Animal physiology (II)	3 ECTS

PPEI (Personal study and integration project)

- PPEI (Personal study and integration project)	2 ECTS
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Support disciplines

- Bio computing (sequence analysis)	2.5 ECTS
- Optics and radiation	2.5 ECTS

4eme année

Semester 7

Biology chemistry

- Neurobiology or another disciplinary teaching unit	2.5 ECTS
- Regulation of gene expression	3.5 ECTS
- Principle of cell engineering or another disciplinary	2.5 ECTS
- Comprehensive experiments in bioscience	2.5 ECTS
- Stem cells & Regenerative medicine or another disciplinary	2.5 ECTS

Transversal and languages disciplines

- Experimental processes	2 ECTS
- Choix langues	

PPEI (Personal study and integration project)

- PPEI (personal study and integrative project)	2 ECTS
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Semester 8

PPEI (Personal study and integration project)

- PPEI (Personal study and integration project)	2 ECTS
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Transversal and languages disciplines

- English for European certification	3.5 ECTS
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Biology chemistry

- Undergraduate thesis (16w) Chinese and French management	20 ECTS
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