



## 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

**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

**Semester 8****PPEI (Personal study and integration project)**

- PPEI (Personal study and integration project) 2 ECTS

**Transversal and languages disciplines**

- English for European certification 3.5 ECTS

**Biology chemistry**

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

## Contacts

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Vous relevez de la FC si vous avez plus de 2 ans d'interruption d'études après votre parcours initial.