

Bachelor Life Sciences - minor Humanities | Undergraduate

FULL-TIME STUDY

FACULTY OF SCIENCES

A 3-year training in **Biology** integrating the **challenges of life in our society**.

3
years of study

50 %
of the students go
abroad

82 %
pass the first year
without repeating

DISCOVER OUR

BACHELOR IN LIFE SCIENCES - MINOR HUMANITIES

OVERVIEW

A general scientific preparation

The training is made for students who wish to specialize in Biology while integrating the challenges of life in our society.

It is about acquiring theoretical knowledge in fundamental sciences, bringing a methodology of the experimental scientific approach and giving a capacity of reflection on the interrogations in biological sciences.

The training opens up to the bio-industries (pharma, veto, biotech, cosmeto, etc.), basic and applied research in Life Sciences, journalism and scientific mediation...

An interdisciplinary reflection on the challenges of life in our societies

In connection with the course of Biology, an epistemological and ethical reflection on the scientific fact is proposed, by a multidisciplinary approach combining Philosophy, Human and Social

Sciences, supplemented by an artistic approach.

A crossover between the contents of Biology and the questions arising from the teachings in Humanities is proposed:

- on the one hand: the relationship of Human to others and to the world
- on the other hand: topical subjects involving the Life Sciences.

For example: How is Human different from an animal? Can science explain everything? Are there ethical limits to scientific research? What is characteristic of the scientific approach?

This training is the only one in France to offer this cross between Biology and the Humanities.

The bachelor degree

Field: Sciences Technologies Health

Mention: Life Sciences

Major: Biology – Minor: Humanities

It validates 180 ECTS.

SPECIFICITIES

UNIQUE TRAINING IN FRANCE

It is the only Bachelor in France to offer a solid teaching in Biology, crossed with Human and Social Sciences. The Humanities modules offered each semester are opportunities for openness and personal reflection for students, around themes related to the Life Sciences but addressed by Human and Social Sciences, Philosophy and artistic approaches.

AN EXTENDED BIOLOGY PROGRAM

The three years of the License make it possible to cover the entire field of Biology in a demanding manner. The program in Biology aims to achieve a good mastery of the disciplinary field of Biology while remaining generalist.

It is progressive, starting with reminders in chemistry and the basics of biology at the beginning of the year 1 to reach in year 3 the systems biology and the biotechnologies, among others.

A SEMESTER OF STUDIES ABROAD

It is during the last semester of the 3rd year that the student can go to a partner university.

INTERNATIONAL SOLIDARITY

Different personal development activities are offered, in particular through the “International Solidarity in Health and Environment” module.

THE HUMANITIES MODULES

MODULES OF HUMANITIES, WHAT FOR ?

The Humanities modules in the Bachelor program aim to deal with the challenges of life sciences in our societies, by enriching the reflection of students with a multidisciplinary approach bringing together Philosophy, Human and Social Sciences, supplemented by an artistic approach.

Examples of themes dealt with in the Humanities modules:

- “Health and disease”: disease psychology and anthropology, complementary medicine ...
- “Ecology and society”: impact of human activities on ecosystems, sustainable development, decline ...
- “Bioethics”: research ethics, care ethics, ethics of health data ...
- History of knowledge: what difference between demonstration and experimentation, what is proof ...
- Business and humanism: CSR, work ethics, management ethics ...

INTERNSHIP

THE third year INTERNSHIP

A mandatory 7-week internship allows you to test your professional project and prepare for further studies.

EXAMPLES OF HOST STRUCTURES

- Bio-enterprises: pharmaceutical, veterinary, biotechnology, cosmetology industries...
- Life Sciences Research Laboratories
- Design offices, consultancy firms, territorial structures responsible for environmental management, etc.
- NGO
- Scientific writing, Science and Society services...
- Primary schools, colleges, high schools...

REport AND oral defense

The internship gives rise to the writing of a report, but also to the production of a video lasting 5

minutes. This more unusual work is presented during an oral defense.

To make this video, students are trained before and after the internship in the basic concepts of a video, in encoding formats, in editing, etc.

AND AFTER ?

Further studies

- Manager in Biotechnologies within ESTBB, with choice between 5 specializations
- Masters in Life Sciences, Medicine Sciences, Agrosciences, Environment ...
- Schools of scientific engineers (biotechnologies, agronomy ...)
- National Veterinary Schools
- Masters in Scientific and Technical Communication
- Masters MEEF (Teaching, Education and Training Trades)
- Management schools, specialized schools

CAREER OPPORTUNITIES

A wide choice of sectors of activity are accessible, depending on the chosen course of study:

- Bio-industry professions: pharmaceutical, veterinary, biotechnology, in vitro diagnostic, medical device, dermo-cosmetology, food industry, agro-chemistry ...
- Professions of fundamental and applied research in Life Sciences
- Science journalism, scientific and technical mediation, etc.
- Teaching professions

DÉBOUCHÉS

Poursuites d'études

- Manager en Biotechnologies au sein de l'ESTBB (admission parallèle), avec choix entre 5 spécialisations
- Masters en Sciences de la Vie, Sciences du médicament, Agrosciences, Environnement...
- Ecoles d'Ingénieurs scientifiques (biotechnologies, agronomie...)
- Concours des Ecoles Nationales Vétérinaires par la voie B
- Masters de Communication Scientifique et Technique
- Masters MEEF (Métiers de l'Enseignement, de l'Education et de la Formation)
- Ecoles de management, écoles spécialisées

[Exemples de poursuites d'études](#)

Des modules optionnels pour accompagner certains projets de poursuite d'études

Ces modules sont suivis sur la base du volontariat, en fonction du projet de poursuite d'études de chaque étudiant :

- des cours de Chimie pour mieux se préparer au concours d'entrée en Ecole Vétérinaire, où la Chimie a une place très importante
 - des modules en collaboration avec la Faculté de Lettres pour se préparer à l'entrée en Master MEEF (Métiers de l'Enseignement)
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Élaboration du projet professionnel

Un travail réparti sur les 3 années de la Licence permet à chaque étudiant d'élaborer progressivement son projet professionnel et choisir sa poursuite d'études.

En 1re année

- mieux se connaître, identifier ses envies
- élaborer son CV, apprendre à rédiger une lettre de motivation
- rechercher un job, un stage ou une expérience de bénévolat durant les mois d'été pour enrichir son projet

En 2e année

- identifier les poursuites d'études qui correspondraient au projet personnel
- rechercher le stage de début de 3ème année, en lien avec ce projet personnel

En 3e année

- identifier les compétences développées durant le stage
 - mettre à jour son CV
 - faire ses candidatures de poursuite d'études
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Débouchés professionnels

Un large choix de secteurs d'activité sont accessibles, selon la poursuite d'études choisie :

- **Métiers des bio-industries** : pharmaceutiques, vétérinaires, biotechnologies, diagnostic in vitro, dispositif médical, dermo-cosmétologie, agro-alimentaire, agro-chimie...
- **Métiers de la recherche fondamentale et appliquée** en Sciences de la Vie
- **Métiers du journalisme scientifique**, de la médiation scientifique et technique...
- **Métiers de l'enseignement**

A complete and unique program in France

75 % Biology

15 % Humanities

**10 %
Transversal
skills**

DISCOVER THE
PROGRAM
DETAILED

YEAR 1

SEMESTER 1

The year 1 is devoted to the establishment of the scientific foundation and methodological tools for successful studies in higher education.

- Biology : 16 ECTS
- Chemistry : 5 ECTS
- Transversal skills, English, personal development : 4 ECTS
- Humanities : 5 ECTS

SEMESTER 2

- Biology : 11 ECTS
- Chemistry : 5 ECTS
- Transversal skills, English, personal development : 9 ECTS
- Humanities : 5 ECTS

YEAR 2

SEMESTER 3

- Biology : 21 ECTS
- Transversal skills, English, personal development : 4 ECTS
- Humanities : 5 ECTS

SEMESTER 4

- Biology : 21 ECTS
- Transversal skills, English, personal development : 4 ECTS
- Humanities : 5 ECTS

YEAR 3

SEMESTER 5

- Biology : 10 ECTS
- Transversal skills, English, personal development : 4 ECTS
- Humanities : 5 ECTS
- 7-weeks internship : discovery of the professional environment and preparation for further studies, 11 ECTS

SEMESTER 6

- Biology : 10 ECTS
- Transversal skills, English, personal development : 15 ECTS
- Humanities : 5 ECTS

It is possible to do the semester 6 abroad, at a partner university.

Contact us

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