



RÉPUBLIQUE
FRANÇAISE

*Liberté
Égalité
Fraternité*

UNIVERSITÉ
MARIE & LOUIS
PASTEUR

UFR **STGI**
BELFORT-MONTBÉLIARD

BAC+3

BACHELOR

Life Sciences

Specialization: Life and Environmental Sciences



Course objective

The Bachelor's degree in Life Sciences enables students to explore living organisms at all scales (from molecules to the biosphere). More specifically, the specialization in Life and Environmental Sciences provides deeper knowledge and skills in the fields of ecology, biodiversity, and the environment.

● Profile

- Students holding a General Baccalauréat with specialization in Biology and Life Sciences, plus Physics-Chemistry and/or Mathematics
- Also open to students from STL (Laboratory Sciences and Technologies). Transition pathways possible after one semester or year of PACES (First Year of Health Studies).

● Career opportunities

There are multiples career opportunities:

- advisor,
- technician,
- assistant engineer,
- research officer,
- trainer in the pharmaceutical, cosmetic, agri-food, environmental industries
- public sector jobs requiring a Bachelor's degree...



UFR STGI

*Département de Life and
Environmental Sciences*

Marie and Louis Pasteur University

4 Place Tharradin
25200 Montbéliard
stgi.umlp.fr

Contact

Life and Environmental Sciences office
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Further studies

- In all Masters programs in Life Sciences including the Master's in Environmental Management, specializing in Environmental and Territorial Engineering at Montbéliard
- Masters in Teaching, Education, and Training Professions



Contents

First year

- Fundamental concepts of the cell
- Biochemistry
- Diversity and organization of the living world
- Ecology and environment
- Geology and landscapes
- General chemistry
- Tools of biosciences
- English
- Tools and digital culture
- Methodology of university work / scientific approach

Second year

- Microbiology
- Animal and plant physiology
- Major animal and plant functions
- Molecular biology of DNA
- Chemistry and physics - applied to the environment
- Ecology
- Univariate biostatistics
- Geographic Information System and cartography
- Pedology (soil science)
- Socio-ecological issues
- English
- Personalized professional project

Third year

- Environmental biology
- Organism adaptation to their environment
- Biodiversity
- Ecological diagnosis - management plan
- Molecular tools applied to ecology and environment
- Environmental chemistry
- Multivariate biostatistics
- Geosciences
- English
- Scientific communication
- Career guidance and professional integration

Advantages:

- field trips
- about 2/3 of the classes are in small groups (tutorials/lab)
- project-based work
- contact with environmental professionals



Find all the information on
our website: stgi.umlp.fr



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Internship periods:

- 5 weeks of scientific internship in 3rd year (March-April)



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