

# Bachelor's degree



## LIFE SCIENCES AND ENVIRONMENT and CMI «Environment and Territories»

- > Are you interested in biology ?
- > Do you want to know more about life sciences ?

**This training is for you !**

### Field trips



### Field school 1 week/year



### Laboratory experiments



### In-depth knowledge of the fauna and flora



### Sample collection



### Case studies



### Teamwork



### Meetings with environmental



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## LIFE SCIENCES AND ENVIRONMENT

- **Objectives of the training program**

This training allows students to explore life at all scales (from the molecule to the biosphere) and to acquire a solid base of general theoretical and practical knowledge and skills in the Life Sciences. In particular, the 'SVE' course offers more in-depth knowledge and skills in the fields of ecology, biodiversity and the environment, which are currently booming.

- **Target audience**

- Students holding a scientific 'Baccalauréat'
- Students holding a 'STL' Baccalauréat are likely to succeed in these studies too.
- Possible gateways exist to access to this training after one semester or one year of 'PACES' studies (studies to prepare for the competitive exams of admission to medicine, pharmacy, dentistry, physiotherapy and midwifery studies).

- **Job opportunities**

- Consultant
- technician,
- assistant engineer,
- researcher,
- trainer in the pharmaceutical, cosmetics, food industry, environment,
- bac + 3 jobs in civil service ...

- **Master of Engineering (CMI)**  
**«Environment and Territories»**

This Master Program in Engineering is a selective 5-year course, which offers students additional multidisciplinary training and internships. It aims to train engineers in environmental management in the context of sustainable development and land management (urban, industrial, natural).

THIS COURSE IS BACKED BY THE FOLLOWING TRAINING COURSES :  
 -Bachelor's degree in Life Sciences (SVE)  
 -Master's degree in Sustainable Management of the Environment (GDE)

### Level of the validated degree :

Baccalauréat +3  
Bachelor's degree

### Training program location :

SVE Department  
UFR STGI  
4 Place Tharradin  
Montbéliard

### Further studies :

- Masters in the field of Life Sciences and more particularly the Master's degree in Sustainable Environmental Management taught in Montbéliard
- Masters in teaching, education and training professions.

### Registration :

<http://formation.univ-fcomte.fr/composantes/ufr-stgi>

### Contacts :

Student Affairs Office  
Bachelor's Degree in Life sciences  
and Environment

03 81 99 46 60  
[scolaritesve.stgi@univ-fcomte.fr](mailto:scolaritesve.stgi@univ-fcomte.fr)

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## LIFE SCIENCES AND ENVIRONMENT

### Bachelor's degree 1<sup>st</sup> year ('L1')

	Type	CM	TD	TP	Total
Semester 01	Compul.				
UE1 - General chemistry I	Oblig.	18	27	15	60
UE2 - Cell biology - Eukaryotic cell organization	Oblig.	20	10	20	50
EU3 - Earth and the Universe from the Big Bang	Oblig.	21	18	21	60
UE4 - Mathematics and Physics	Oblig.	31	35	6	72
Mathematics	Oblig.	16	20		36
Physics	Oblig.	15	15	6	36
UE5 - Transversal unit	Oblig.		18	18	36
English	Oblig.		18		18
C2i (Certificate of Internet and IT)	Oblig.			12	12
Documentary tools	Oblig.			6	6
Semester 02	Compul.				
EU6 - General Chemistry II	Oblig.	18	16	9	43
EU7 - Biochemistry I and Organic Chemistry I	Oblig.	26	24	12	62
Biochemistry I - The molecules of living organisms	Oblig.	14	10	12	36
Organic chemistry I	Oblig.	12	14		26
EU8 - Organization of the Living World I	Oblig.	34	6	23	63
Animal biology I	Oblig.	19	4	13	36
Plant biology I	Oblig.	15	2	10	27
EU9 - Introduction to ecology - Societal awareness	Oblig.	29	13		42
Symbolic construction of landscapes	Oblig.	16			16
Introduction to ecology	Oblig.	13	13		26
UE10 - Transverse unit	Oblig.		18	18	36
English	Oblig.		18		18
C2i (Certificate of Internet and IT)	Oblig.			12	12
Documentary tools	Oblig.			6	6
'Parcours CMI' (Master of Engineering curriculum)	Compul.				
Scientific Complementary course	Oblig.	8	25	27	60
Initiation to research project + conferences, discovery of labs,	Oblig.		17	9	26
Evolution and diversity of living things + preparation to the professional project	Oblig.	8	8	18	34
Human-Environment Relations	Oblig.	25	25		50
Human-environment relations and internship	Oblig.	25	25		50

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### Bachelor's degree 2<sup>nd</sup> year ('L2')

	Type	CM	TD	TP	Total
<b>Semester 03</b>	<b>Compul.</b>				
EU1 - Biochemistry II and Genetics	Oblig.	38	26	14	78
Biochemistry II	Oblig.	27	17	9	53
Formal genetics	Oblig.	11	9	5	25
EU2 - Organization of the Living World II	Oblig.	18	6	36	60
Animal Biology II	Oblig.	6	6	10	22
Plant biology II	Oblig.	12		26	38
EU3 - Animal and plant physiology I	Oblig.	28	15	19	62
Animal physiology I	Oblig.	10	7	7	24
Plant physiology I	Oblig.	18	8	12	38
EU4 - English	Oblig.		36		36
UE5 - Transversal unit	Oblig.			20	20
Professional project workshop	Oblig.			10	10
Scientific Information and Communication Technology	Oblig.			10	10
<b>'Parcours CMI' (Master of Engineering curriculum)</b>	<b>Compul.</b>				
Expression, communication, general culture + Experience and Skills Portfolio ('PEC')	Oblig.	20	20	20	60
<b>Semester 04</b>	<b>Compul.</b>				
EU6 - General Chemistry III and Organic Chemistry II	Oblig.	22	22	12	56
General chemistry III	Oblig.	13	13	6	32
Organic chemistry II	Oblig.	9	9	6	24
EU7 - Animal and plant physiology II	Oblig.	48	22	12	82
Animal physiology II	Oblig.	28	14		42
Plant physiology II	Oblig.	20	8	12	40
EU8 - Ecology: Population-Environment Relationships	Oblig.	15	15	15	45
EU9 - Geology and mapping	Oblig.	12		36	48
EU10 - Biophysics and Biostatistics I	Oblig.	14	14	24	52
Biophysics	Oblig.	11	11		22
Biostatistics I	Oblig.	3	3	24	30
<b>'Parcours CMI' (Master of Engineering curriculum)</b>	<b>Compul.</b>				
Landscape and territories + bibliographic project	Oblig.	20	30	10	60
Landscape and territories	Oblig.	20	20	10	50
Bibliographic project	Oblig.		10		10

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### Bachelor's degree 3rd year ('L3')

	Type	CM	TD	TP	Total
<b>Semester 05</b>	<b>Compul.</b>				
UE1 - General Chemistry IV and Organic Chemistry III	Oblig.	24	24	12	60
General chemistry IV	Oblig.	12	12	6	30
Organic chemistry III	Oblig.	12	12	6	30
EU2 - Microbiology	Oblig.	30	18	24	72
EU3 - Plant ecophysiology	Oblig.	26	26	20	72
EU4 - Metrology - Biostatistics II	Oblig.	18	18	18	54
Metrology	Oblig.	14	14	12	40
Biostatistics II	Oblig.	4	4	6	14
EU5 - English	Oblig.		36		36
<b>'Parcours CMI' (Master of Engineering curriculum)</b>	<b>Compul.</b>				
Bio and geo-statistics	Oblig.	5	10	15	30
<b>Semester 06</b>	<b>Compul.</b>				
EU6 - Analytical chemistry	Oblig.	24	24	24	72
EU7 - Biology tools	Oblig.	8	8	34	50
EU8 - Ecology: Ecosystem functioning and evolution	Oblig.	16	18	12	46
EU9 - Ecological diagnosis - Societal openness	Oblig.	10	22	28	60
Knowledge of companies	Oblig.	10	10		20
Management plan	Oblig.		12	28	40
EU10 - Discovery internship	Oblig.			15	15
Professional project	Oblig.			15	15
Internship	Oblig.				
<b>'Parcours CMI' (Master of Engineering curriculum)</b>	<b>Compul.</b>				
Integrating project	Oblig.	5	10	15	30

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UFR STGI  
Life sciences and Environment Department  
4 place Tharradin  
BP 71427  
25211 Montbéliard cedex

📞 **03 81 99 46 60**  
✉ ufr-stgi@univ-fcomte.fr

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<http://stgi.univ-fcomte.fr/>

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