RÉPUBLIQUE FRANÇAISE
Liberté Égalité Fraternité

UNIVERSITÉ MARIE & LOUIS PASTEUR

UFR STGI BELFORT-MONTBÉLIARD

Bachelor Life and Environmental Sciences | UFR STGI

	Type	ECTS	CM	TD	TP	Total
Semester 01	**Oblig.**	**30.0**	**120.0**	**100.5**	**87.0**	**307.5**
UE1 - Fundamental concepts of the cell	**Oblig.**	**6,0**	**29,0**	**22,0**	**7,0**	**58,0**
Cell biology	Oblig.	3,0	18,0	10,0		28,0
Histology	Oblig.	1,0	2,0		7,0	9,0
General chemistry	Oblig.	2,0	9,0	12,0		21,0
UE2 - Geology and landscape	**Oblig.**	**6,0**	**27,0**	**14,0**	**22,0**	**63,0**
Geology	Oblig.	3,0	15,0	4,0	16,0	35,0
Landscapes and territories	Oblig.	3,0	12,0	10,0	6,0	28,0
UE3 - Organisation of the living world 1	**Oblig.**	**6,0**	**40,0**	**8,5**	**23,0**	**71,5**
History of life on earth and diversity of living organisms	Oblig.	2,0	9,0	5,5	3,0	17,5
Animal biology 1	Oblig.	2,0	15,0	1,0	11,0	27,0
Plant biology 1	Oblig.	2,0	16,0	2,0	9,0	27,0
UE4 - Biosciences tools 1	**Oblig.**	**6,0**	**24,0**	**28,0**	**23,0**	**75,0**
Mathematics	Oblig.	2,0	16,0	10,0		26,0
Physics	Oblig.	2,0	8,0	8,0		16,0
Applied methodology for life sciences	Oblig.	2,0		10,0	23,0	33,0
UE5 - English and transversal tools 1	**Oblig.**	**6,0**		**28,0**	**12,0**	**40,0**
English	Oblig.	2,0		18,0		18,0
Digital tools and culture 1	Oblig.	2,0			12,0	12,0
University studying methodology	Oblig.	2,0		10,0		10,0
Semester 02	**Oblig.**	**30,0**	**70,0**	**78,0**	**71,0**	**219,0**
UE6 - Application and practical work 1	**Oblig.**	**6,0**			**29,0**	**29,0**
Applications in general chemistry	Oblig.	2,0			9,0	9,0
Field ecology	Oblig.	4,0			20,0	20,0
UE7 - Ecology and environment 1	**Oblig.**	**6,0**	**24,0**	**16,0**	**6,0**	**46,0**
Introduction to ecology	Oblig.	3,0	14,0	6,0		20,0
Human-environment relationship	Oblig.	3,0	10,0	10,0	6,0	26,0
UE8 - Organisation of the living world 2	**Oblig.**	**6,0**	**18,0**	**6,0**	**12,0**	**36,0**
Animal biology 2	Oblig.	3,0	6,0	6,0		12,0
Plant biology 2	Oblig.	3,0	12,0		12,0	24,0
UE9 - Biochemistry	**Oblig.**	**6,0**	**28,0**	**34,0**	**12,0**	**74,0**
Molecules of living world	Oblig.	3,0	10,0	10,0	12,0	32,0
Organic chemistry	Oblig.	1,0	9,0	12,0		21,0
Solution chemistry	Oblig.	2,0	9,0	12,0		21,0
UE10 - English and transversal tools 2	**Oblig.**	**6,0**		**22,0**	**12,0**	**34,0**
English	Oblig.	2,0		18,0		18,0
Digital tools and culture 2	Oblig.	2,0			12,0	12,0
Scientific approach	Oblig.	2,0		4,0		4,0
Semester 03	**Oblig.**	**30,0**	**102,0**	**80,0**	**77,0**	**259,0**
UE1 - Molecular Biology of DNA	**Oblig.**	**6,0**	**23,0**	**12,0**	**5,0**	**40,0**
Fundamentals of molecular biology	Oblig.	3,0	12,0	3,0		15,0
Mendelian genetics	Oblig.	3,0	11,0	9,0	5,0	25,0
UE2 - Application and practical work 2	**Oblig.**	**6,0**	**3,0**	**4,0**	**60,0**	**67,0**
Applications in metabolic biochemistry (animal and plant)	Oblig.	1,0			10,0	10,0
Applications in microbiology 1	Oblig.	1,0			8,0	8,0
Applications in cellular physiology (animal and plant)	Oblig.	1,0		2,0	12,0	14,0
Applications in chemistry	Oblig.	1,0			12,0	12,0
Univariate biostatistics	Oblig.	2,0	3,0	2,0	18,0	23,0
UE3 - Cellular functioning	**Oblig.**	**6,0**	**76,0**	**41,0**		**117,0**
Metabolic biochemistry (animal and plant)	Oblig.	1,0	18,0	9,0		27,0
Microbiology 1	Oblig.	2,0	20,0	7,0		27,0
Cellular physiology (animal and plant)	Oblig.	2,0	26,0	13,0		39,0
Thermodynamics and chemical kinetics	Oblig.	1,0	12,0	12,0		24,0

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UE4 - Valorisation, Orientation, Insertion 1	**Oblig.**	**6,0**		**1,0**	**12,0**	**13,0**
UE5 - English and transversal tools 3	**Oblig.**	**6,0**		**22,0**		**22,0**
English	Oblig.	3,0		18,0		18,0
Bibliographic tools 1	Oblig.	3,0		4,0		4,0
Semester 04	**Oblig.**	**30,0**	**135,0**	**114,0**	**90,0**	**339,0**
UE6 - Application and practical work 3	**Oblig.**	**6,0**		**6,0**	**40,0**	**46,0**
Potentiel hydrique et nutrition minérale chez les plantes	Oblig.	1,0		2,0	6,0	8,0
Ecology	Oblig.	3,0		4,0	18,0	22,0
Applied chemistry	Oblig.	2,0			16,0	16,0
UE7 - Ecology and environment 2	**Oblig.**	**6,0**	**61,0**	**45,0**	**7,0**	**113,0**
Applied chemistry and physics for the environment	Oblig.	4,0	38,0	36,0	3,0	77,0
Population ecology and evolution	Oblig.	2,0	23,0	9,0	4,0	36,0
UE8 - Major animal and plant functions	**Oblig.**	**6,0**	**40,0**	**18,0**	**13,0**	**71,0**
UE9 - Biosciences tools 2	**Oblig.**	**6,0**	**24,0**	**14,0**	**24,0**	**62,0**
Cartography	Oblig.	2,0	12,0		20,0	32,0
GIS (Geographic Information Systems)	Oblig.	2,0	4,0	8,0		12,0
Soil science 1	Oblig.	2,0	8,0	6,0	4,0	18,0
UE10 - English and transversal tools 4	**Oblig.**	**6,0**	**10,0**	**31,0**	**6,0**	**47,0**
English	Oblig.	2,0		12,0	6,0	18,0
Bibliographic tools 2	Oblig.	2,0		9,0		9,0
Socio-ecological issues	Oblig.	2,0	10,0	10,0		20,0
Semester 05	**Oblig.**	**30,0**	**58,0**	**90,0**	**87,0**	**235,0**
UE1 - Application and practical work 4	**Oblig.**	**6,0**		**6,0**	**46,0**	**52,0**
Applications in ecophysiology	Oblig.	3,0		6,0	20,0	26,0
Applications in environmental microbiology	Oblig.	1,0			11,0	11,0
Molecular tools	Oblig.	2,0			15,0	15,0
UE2 - Environmental biology	**Oblig.**	**6,0**	**36,0**	**29,0**		**65,0**
Environmental microbiology	Oblig.	2,0	16,0	9,0		25,0
Ecology	Oblig.	2,0	10,0	10,0		20,0
Ecophysiology	Oblig.	2,0	10,0	10,0		20,0
UE3 - Biosciences tools 3	**Oblig.**	**6,0**	**22,0**	**26,0**	**29,0**	**77,0**
Landscapes and GIS (Geographic Information Systems)	Oblig.	2,0	4,0	8,0	8,0	20,0
Multivariate biostatistics	Oblig.	2,0	4,0	4,0	9,0	17,0
Soil science 2 and hydrology	Oblig.	2,0	14,0	14,0	12,0	40,0
UE4 - Valorisation - Orientation - Insertion 2	**Oblig.**	**6,0**		**15,0**		**15,0**
UE5 - English and transversal tools 5	**Oblig.**	**6,0**		**14,0**	**12,0**	**26,0**
English	Oblig.	3,0		12,0	6,0	18,0
Scientific communication	Oblig.	3,0		2,0	6,0	8,0
Semester 06	**Oblig.**	**30,0**	**47,0**	**69,0**	**124,0**	**240,0**
UE6 - Application and practical work 5	**Oblig.**	**6,0**	**16,0**	**20,0**	**32,0**	**68,0**
Applications: regulation of major plant functions	Oblig.	1,0		4,0	12,0	16,0
Applied chemistry 2	Oblig.	5,0	16,0	16,0	20,0	52,0
UE7 - Adaptation of organisms to their environment	**Oblig.**	**6,0**	**28,0**	**12,0**		**40,0**
UE8 - Field ecology	**Oblig.**	**6,0**	**3,0**	**19,0**	**76,0**	**98,0**
Biodiversity	Oblig.	3,0	3,0	13,0	40,0	56,0
Management plan	Oblig.	3,0		6,0	36,0	42,0
UE9 - Discovery Internship	**Oblig.**	**6,0**				
UE10 - English and transversal tools 6	**Oblig.**	**6,0**		**18,0**	**16,0**	**34,0**
English	Oblig.	3,0		18,0		18,0
Scientific communication	Oblig.	3,0			16,0	16,0