

**Cycle view of the study programme**

		B1	Or	Th	Pr	Au	Cr
<b>Core curriculum compulsory courses (B1 : 52Cr, B2 : 30Cr)</b>							
BIOL0852-1	<i>Ecosystems and climate change</i> - Monique CARNOL	B1	Q2	24	16	-	3
BIOL0810-2	<i>Conservation biology</i> - Nicolas MAGAIN	B1	Q2	30	-	-	4
BIOL0808-2	<i>Functional morphology</i> - <i>Marine vertebrates</i> - Eric PARMENTIER - <i>Birds, mammals, biomimicry</i> - Eric PARMENTIER - [1d FW]	B1	Q1	15 10	10 15	- [+]	4
PALE0209-1	<i>Paleontology</i> - <i>Micropaleontology</i> - Emmanuelle JAVAUX - <i>Macropaleontology</i> - Valentin FISCHER	B1	Q1	10 15	- 5	-	3
BIOL0866-1	<i>Ecophysiology</i> - Claire PÉRILLEUX, JeanChristophe PLUMIER, Stéphane ROBERTY	B1	Q1	25	15	-	3
BIOL2213-1	<i>Behavioural ecology</i> - Mathieu DENOËL, Laurane WINANDY	B1	Q1	20	-	-	3
BIOL0854-1	<i>Ecotoxicology</i> (english language) - Célia JOAQUIMJUSTO	B1	Q1	20	18	-	4
BIOL0812-2	<i>Biogeography</i> - Alain VANDERPOORTEN	B1	Q2	25	-	-	3
GENE0446-2	<i>Population genetics</i> - Johan MICHAUX, Claire REMACLE	B1	Q1	20	10	-	3
GENE0448-1	<i>Phylogenetic methods</i> - Denis BAURAIN	B1	Q1	20	15	-	3
BIOL2041-1	<i>Taxonomy and animal phylogeny</i> - Loïc MICHEL	B1	Q1	25	15	-	4
BIOL2040-1	<i>Taxonomy and phylogeny of chlorophyll lines</i> - Nicolas MAGAIN	B1	Q2	25	15	-	4
SSTG0069-1	<i>Professional internship</i> - Fany BROTCORNE, Gilles LEPOINT, Nicolas MAGAIN, JeanChristophe PLUMIER, Carole ROUGEOT - [20d FW]	B1	TA	-	-	[+]	8
BIOL0856-1	<i>Data analysis in ecology, ethology and evolutionary biology</i> - Flavien COLLART, Bruno FREDERICH	B1	Q1	-	20	-	3
SMEM0013-1	<i>Final thesis</i> - COLLÉGIALITÉ, Bruno FREDERICH  <i>Notice</i> : Students who handle animals within the framework of their dissertation must have the Certificate in laboratory animal sciences, grade: animal biotechnologist. Prof. Mathieu DENOËL).	B2	TA	-	-	-	27
DOCU0462-1	<i>Preparing a dissertation in the biology of organisms and ecology</i> - Monique CARNOL - [15h Mon. WS]	B2	Q1	15	-	[+]	3

**Common core courses (B1 : 8Cr)**

In agreement with the Jury, choose one of the following field placement modules: (B1 : 1Nbr)

**Conservation and Biodiversity Module (B1 : 8Cr)**

SSTG0046-1	<i>Naturalistic building upon applied in conservation</i> - Nicolas MAGAIN - [8d FW]	B1	TA	-	-	[+]	4
SSTG0066-1	<i>Internship: ecology applied to monitoring and conserving biodiversity</i> - Flavien COLLART, Mathieu DENOËL, Nicolas MAGAIN, Loïc MICHEL, Laurane WINANDY - [9d FW]	B1	Q2	-	-	[+]	4

**Ecology and Biodiversity Module (B1 : 8Cr)**

SSTG0024-1	<i>Training: biodiversity, phylogeny and ecology</i> - Flavien COLLART, Bruno FREDERICH, Véronique GOOSSE, Loïc MICHEL, Stéphane ROBERTY, Laurane WINANDY - [10d FW]	B1	TA	-	-	[+]	5
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In agreement with the Jury, choose a field placement from among: (B1 : 3Cr)

SSTG0064-1	<i>Applied biogeography</i> - Flavien COLLART, Alain VANDERPOORTEN - [6d FW]	B1	Q2	-	-	[+]	3
SSTG0053-1	<i>Integrated ethometry internship</i> - Fany BROTCORNE,	B1	Q2	-	10	[+]	3

ENOËL - [4d FW]

**Focus compulsory courses (B2 : 26Cr)**

ZOOL0234-1	<i>Diversity of halieutic species and breeding: fish, shellfish and molluscs</i> - Bruno FREDERICH	B2	Q1	15	10	-	3
ZOOL0235-1	<i>Physiology applied to aquaculture: a balance between productivity and respect for animal well-being</i> - Carole ROUGEOT	B2	Q1	30	15	-	4
BIOL0218-1	<i>Ecological monitoring and managing fishery resources</i> - Michaël OVIDIO	B2	Q1	10	15	-	3
HULG2012-2	<i>Fish and shellfish nutrition and feeding</i> - Rudy CAPARROS MEGIDO	B2	Q1	15	-	-	3
ZOOL0236-1	<i>Ecology and the production of zooplanktonic organisms</i> - Célia JOAQUIMJUSTO	B2	Q2	10	10	-	3
BIOL0220-1	<i>Operation and integrated management of continental aquatic environments</i> - Michaël OVIDIO	B2	Q2	10	10	-	3
ZOOL0237-1	<i>Aquaculture production system: adaptability, innovation and integration in a sustainable environment</i> - Carole ROUGEOT - [16h Vis.]	B2	Q1	35	10	[+]	4
GEOG0272-1	<i>Economic issues and exploitation of the marine aquatic environment</i> - Guénaël DEVILLET	B2	Q2	10	10	-	3

**Focus optional courses (B2 : 4Cr)**

In agreement with the Jury, choose 2 courses for a total of 4 credits among: (B2 : 4Cr)

BIOL0219-1	<i>Ecophysiologie et production en masse de microalgues</i> - Pierre CARDOL	B2	Q2	10	10	-	2
VETE0206-1	<i>Immunology, virology and vaccinology of aquatic species</i> - Alain VANDERPLASSCHEN	B2	Q1	18	2	-	2
VETE0207-1	<i>Pathology, bacteriology and parasitology of aquatic species</i> - Thierry JAUNIAUX	B2	Q2	15	10	-	2
VETE2007-1	<i>Management of the quality and safety of foodstuffs derived from aquaculture and fishing</i> - Antoine CLINQUART, Véronique DELCENSERIE, Nicolas KORSACK KOULAGENKO, MarieLouise SCIPPO - [5h Vis.]	B2	Q2	15	-	[+]	2
ZOOL0238-1	<i>Integration of aquaponic aquaculture systems into urban and semi-urban agriculture</i> - Haissam JIJAKLI	B2	Q1	12	-	-	2

**Bridging courses (max 15-60 credits) Master in biology of organisms and ecology (120 credits)**

The refresher programme, for a maximum of 60 credits, will be established by the jury of the Masters in Biology of Organisms and Ecology, depending on the student's prior training: this programme will enable the student to acquire the basic knowledge required in relevant fields (statistics, biology, biodiversity, etc.).

**Compulsory courses (B0 : 39Cr)**

BIOL0518-4	<i>Biodiversity and ecology</i> - <i>Notions and concepts</i> - Gabriel CASTILLO CABELLO, Bruno FREDERICH, Eric PARMENTIER - <i>Stage d'écologie marine</i> - Eric PARMENTIER - [5d FW]	B0	TA	60	-	-	7
BIOL0868-1	<i>Biology of multicellular animal organisms</i> - Bruno FREDERICH	B0	Q1	15	15	-	3
BIOL0869-1	<i>Biology of multicellular plant organisms</i> - Claire PÉRILLEUX	B0	Q1	15	15	-	3
BIOL0216-1	<i>Physiologie animale</i> - JeanChristophe PLUMIER	B0	Q1	45	25	-	6

BIOL0217-2	<i>Vegetal physiology, Theory</i> - Claire PÉRILLEUX	B0	Q2	35	-	-	<b>3</b>
BIOL2037-1	<i>Introduction to evolutionary biology</i> - Nicolas MAGAIN - [1d FW]	B0	Q2	25	25	[+]	<b>4</b>
BIOL2038-1	<i>Soil ecology and microbiology</i> - Monique CARNOL - [1d FW]	B0	Q1	25	10	[+]	<b>3</b>
BIOL2039-2	<i>Freshwater ecology, Theory</i> - Véronique GOOSSE, Célia JOAQUIMJUSTO	B0	Q2	18	2	-	<b>2</b>
BIOC9244-1	<i>Genetics and introduction to molecular ecology</i> - Marc HANIKENNE	B0	Q1	20	10	-	<b>2</b>
STAT0750-1	<i>Analyse statistique multivariée (logiciel R)</i> - Arnout VAN MESSEM	B0	Q2	10	14	-	<b>3</b>
DOCU0460-1	<i>Training in the use of documentary resources in biology(refresher course)</i> - Hassan BOUGRINE, Monique CARNOL	B0	Q1	6	6	-	<b>1</b>
STAT0077-1	<i>Computing analysis and processing of biological data</i> - Patrick MEYER	B0	Q1	25	-	-	<b>2</b>

**Optional courses (B0 : 21Cr)**

In agreement with the Jury, if necessary choose courses from: (B0 : 21Cr)

Courses from the Bachelor in Biology.