

Cycle view of the study programme

B1 Or Th Pr Au Cr

Compulsory courses (B1 : 60Cr, B2 : 30Cr)
Specialised courses in Biology and Ecology

SSTG0046-1	<i>Naturalistic building upon applied in conservation</i> - Nicolas MAGAIN - [10d FW]	B1	TA	-	-	[+]	4
SSTG0024-1	<i>Training: biodiversity, phylogeny and ecology</i> - Patrick DAUBY, Johann DELCOURT, Bruno FREDERICH, Véronique GOOSSE, Alain HAMBUCKERS, Stéphane ROBERTY - [10d FW]	B1	TA	-	-	[+]	5
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	25	-	-	3
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> - Valentin FISCHER, Emmanuelle JAVAUX, Cyrille PRESTIANNI	B1	Q1	30	-	-	3
BIOL0866-1	<i>Ecophysiology</i> - Claire PÉRILLEUX, JeanChristophe PLUMIER	B1	Q1	25	15	-	3

Specialised courses in basic Ethology and applied to population management

BIOL0856-1	<i>Experimental designs and data processing</i> - Bruno FREDERICH, Alain HAMBUCKERS, Alain VANDERPOORTEN	B1	Q1	-	20	-	3
BIOL2213-1	<i>Behavioural ecology</i> - Mathieu DENOËL	B1	Q1	20	-	-	3

Specialised courses in applied Ecology and Ecotoxicology

ENVT3045-1	<i>Ecosystems : conditions, anthropic impacts and management</i> - Dorothee DENAYER, Célia JOAQUIMJUSTO - [22h Cl. inv.]	B1	Q2	26	-	[+]	3
BIOL0854-1	<i>Ecotoxicology (english language)</i> - Célia JOAQUIMJUSTO, Yves MARNEFFE	B1	Q1	20	18	-	4

Population study and phylogenetics

BIOL0812-2	<i>Biogeography</i> - Alain VANDERPOORTEN - [3d FW]	B1	Q2	30	-	[+]	4
GENE0446-2	<i>Population genetics</i> - Johan MICHAUX, Claire REMACLE	B1	Q1	25	15	-	4
GENE0448-1	<i>Phylogenetic methods</i> - Denis BAURAIN	B1	Q1	20	15	-	3
BIOL2041-1	<i>Taxonomy and animal phylogeny</i> - Patrick DAUBY	B1	Q1	35	25	-	5
BIOL2040-1	<i>Taxonomy and phylogeny of chlorophyll lines</i> - Nicolas MAGAIN - [3d FW]	B1	Q2	25	15	[+]	4

Transversal training

AESS0320-1	<i>Initiation to biology didactics</i> - MarieNoëlle HINDRYCKX	B1	Q2	20	20	-	2
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Notice : Students who handle animals within the framework of their dissertation must have the "Certificate in laboratory animal sciences, grade: animal biotechnologist" (contact: Prof. Mathieu DENOEL).

SMEM0013-1	<i>Final thesis</i> - COLLÉGIALITÉ	B2	TA	-	-	-	27
DOCU0459-2	<i>Documentation training and preparation to the final thesis</i> - <i>Bibliographic research</i> - Ninfa GRECO - [20h Mon. WS] - <i>Preparation to the final thesis</i> - Monique CARNOL - [10h Mon. WS]	B2	Q1	-	-	[+] [+]	3

Focus to be chosen (B2 : 30Cr)

Choose one focus from the following : (B2 : 1Nbr)

Research Focus (B2 : 30Cr)

Choose one module from : (B2 : 15Cr)

Module: Basic ethology and applied to population management (B2 : 15Cr)

Choose courses totalling 15 ECTS out of the following : (B2 : 15Cr)

General courses in ethology

PSYC1063-1	<i>Social ethology</i> - Fany BROTCORNE, Johann DELCOURT, Pascal PONCIN	B2	Q1	30	-	-	3
PSYC0063-1	<i>Behavioural neuroendocrinology</i> - Charlotte CORNIL	B2	Q1	30	-	-	3
BIOL0857-1	<i>Behavioural neuroscience and animal cognition</i> - Mohamed Ali BAHRI, André FERRARA, JeanChristophe PLUMIER, Gilles VANDEWALLE	B2	Q1	18	12	-	3
BIOL0858-1	<i>Animal communication</i> - Christian MICHEL, Eric PARMENTIER, JeanChristophe PLUMIER	B2	Q1	20	10	-	3
ANTH0057-1	<i>Anthropology of the nature of animals</i> - Véronique SERVAIS - Suppl : Alix HUBERT	B2	Q1	30	-	-	3
SSTG0053-1	<i>Integrated ethometry internship</i> - Fany BROTCORNE, Mathieu DENOËL - [4d FW]	B2	Q1	-	10	[+]	3

Ethology of wildlife and management of fauna

BIOL1064-1	<i>Behavioural primatology</i> - Fany BROTCORNE	B2	Q1	20	10	-	3
RAVT0002-2	<i>Eco-ethology and wildlife conservation</i> - Pascal PONCIN - [1d FW]	B2	Q2	20	-	[+]	3
VETE0014-1	<i>Domestic Animal Behaviour Science</i> - Marc VANDENHEEDE	B2	Q1	32	-	-	3
BIOL0859-1	<i>Insect behaviour</i> - Frédéric FRANCIS, François VERHEGGEN	B2	Q1	20	10	-	3
ZOOL0232-1	<i>Ecology, ethology and amphibian conservation</i> - Mathieu DENOËL - [1d FW]	B2	Q1	15	15	[+]	3
OCEA0043-3	<i>Ecoethology of the marine animals</i> - Sylvie GOBERT, Christian MICHEL - [5d FW]	B2	Q2	10	-	[+]	3
ZOOL2021-1	<i>Ecology and dynamics of freshwater fish populations</i> - Theory - Michaël OVIDIO - Practice - Michaël OVIDIO	B2	Q1	10	-	-	3
SSTG0062-1	<i>Internship: Ecology and the conservation of freshwater communities and amphibians</i> - Mathieu DENOËL - [13d FW]	B2	TA	-	-	[+]	3

Module: Applied ecology and ecotoxicology (B2 : 15Cr)

Choose courses totalling 15 ECTS out of the following : (B2 : 15Cr)

Anthropic impact on ecosystems and ecotoxicology

BIOL0860-1	<i>Soil ecotoxicology and bioremediation</i> - Monique CARNOL, Marc HANIKENNE, Célia JOAQUIMJUSTO	B2	Q1	24	12	-	3
BIOL0861-1	<i>Integrated management of entomological biodiversity</i> - Frédéric FRANCIS	B2	Q1	15	15	-	3
OCEA0084-1	<i>Marine ecotoxicology (english language)</i> - Krishna DAS	B2	Q1	15	15	-	3

Applied Methodology to Ecology and Ecotoxicology

SSTG0054-1	<i>Applications and case studies in ecology</i> - Bruno FREDERICH - [6d FW]	B2	Q2	-	-	[+]	3
BIOL0862-1	<i>Quantification of the environmental risk associated with pollutants and decision-making (english language)</i> - Célia JOAQUIMJUSTO	B2	Q1	16	8	-	3

OCEA0227-1	<i>Tools for analysis and assistance for integrated management</i> - JeanFrançois DELIÈGE, Sylvie GOBERT	B2	Q1	30	-	-	3
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Module: Biology and Ecology (B2 : 15Cr)

Choose courses totalling 15 ECTS out of the following : (B2 : 15Cr)

BOTA0410-1	<i>Phylogeny of eukaryotes</i> - Denis BAURAIN	B2	Q1	30	-	-	3
BIOL0025-1	<i>Animal symbiosis</i> - JeanChristophe PLUMIER, Stéphane ROBERTY	B2	Q1	15	15	-	3
BIOL0030-1	<i>Modeling dynamical biological systems (english language)</i> - Marilaure GRÉGOIRE, Patrick MEYER - [15h Mon. WS]	B2	Q2	15	-	[+]	3
OCEA0085-1	<i>Methods of investigation, observation and analysis of marine plankton</i> - Anne GOFFART - [12h Mon. WS]	B2	Q1	10	5	[+]	3
OCEA0223-1	<i>Biodiversity of tropical coastal regions</i> - Bruno FREDERICH, Gilles LEPOINT, Richard RASOLOFONIRINA, Gwendoline ROMMELAERE - [15d FW]	B2	Q2	-	-	[+]	3
BIOL0820-1	<i>Morphological specific aspects of vertebrates : functional approach</i> - Eric PARMENTIER	B2	Q2	30	-	-	3
CHIM9212-1	<i>Biological applications of radioelements</i> - Philippe COMPÈRE	B2	Q2	30	-	-	3
BIOL2042-1	<i>Population Biology</i> - Johan MICHAUX - [3d FW]	B2	Q2	10	-	[+]	3
BIOL0821-1	<i>Natural Biomaterials : ultrastructural and functional aspects</i> - Philippe COMPÈRE	B2	Q2	30	-	-	3
GBIO0022-1	<i>Biomimicry (english language)</i> - Philippe COMPÈRE, Liesbet GERIS, Tristan GILET, Davide RUFFONI - [45h Proj.]	B2	TA	15	-	[+]	3
GEOG0238-3	<i>Geographical Information Systems, Introduction</i> - Roland BILLEN, François JONARD	B2	Q2	15	15	-	3

With the jury's agreement, choose courses for a total of 15 credits from the module courses or the list of optional courses. It is recommended to choose a maximum of courses in the same module. (B2 : 15Cr)

[...] the module courses:

[...] the optional courses list:

HAAR0091-1	<i>Archaeozoology</i> - Annick GABRIEL	B2	Q1	15	15	-	3
GEOL0099-1	<i>Biodiversity and extinctions (english language)</i> - Valentin FISCHER - [2d FW]	B2	Q1	25	-	[+]	3
GEOL1022-2	<i>Precambrian paleobiogeology</i> - Emmanuelle JAVAUX	B2	Q1	20	10	-	3
GEOL0263-1	<i>Astrobiology (english language)</i> - Vincianne DEBAILLE, Véronique DEHANT, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE	B2	Q2	45	-	-	3
GEOL1023-1	<i>Palynology - advanced course on Paleozoic spores</i> - Cyrille PRESTIANNI, Philippe STEEMANS (Odd years)	B2	Q2	30	-	-	3
BIOL0114-4	<i>Electronic microscopies, Part A</i> - Philippe COMPÈRE	B2	Q2	15	-	-	3
CHIM9236-1	<i>Microstructure of materials : characterization techniques, Part A</i> - Catherine HENRIST	B2	Q2	15	-	-	3
NEUR0434-1	<i>Functional Neuroanatomy</i> - JeanChristophe PLUMIER	B2	Q2	30	-	-	3
BIOL0822-1	<i>Environmental physiology (english language)</i> - JeanChristophe PLUMIER	B2	Q1	10	20	-	3
BIOL0823-1	<i>Ultrastructural cytochemistry</i> - Philippe COMPÈRE, Marc THIRY	B2	Q2	30	-	-	3
OCEA0083-1	<i>Physiology and biochemistry of the marine animals (english)</i>	B2	Q1	15	15	-	3

language) - Philippe COMPÈRE								
GENE0003-1	<i>Genomics</i> - Marc HANIKENNE	B2	Q2	20	-	-	-	3
OCEA0226-1	<i>Introduction to aquaculture</i> - Carole ROUGEOT	B2	Q1	30	-	-	-	3
GENE0441-1	<i>Organelle genetics</i> - Part A - Claire REMACLE - Part B - Claire REMACLE	B2	Q2	15	-	-	-	3
LABO0432-1	<i>Techniques for cells and tissue cultures</i> - Erik MAQUOI	B2	Q1	8	20	-	-	3
BIOL0844-1	<i>General biology of cryptogams (bryophyta and lichens)</i> - Nicolas MAGAIN, Alain VANDERPOORTEN	B2	Q2	30	-	-	-	3
ZOOL0230-2	<i>Methods to count and monitor freshwater fish populations</i> - Michaël OVIDIO - [4d FW]	B2	Q2	-	10	[+]	-	3
ZOOL0218-4	<i>Aquariology</i> - Christian MICHEL	B2	Q1	20	-	-	-	3
OCEA0144-1	<i>Ecology of the coral reefs</i> (english language) - N..., Stéphane ROBERTY	B2	Q1	30	-	-	-	3
OCEA0027-1	<i>Applications of stable isotopes in marine sciences</i> - Gilles LEPOINT, Loïc MICHEL	B2	Q1	15	15	-	-	3
DOCU0455-1	<i>Introduction to critical thinking</i> - Theory - Yaël NAZÉ - Practice - Yaël NAZÉ	B2	Q2	10	-	-	-	3
LANG2971-2	<i>Academic English Writing</i> (english language) - Clara BRERETON, Véronique DOPPAGNE, ISLV	B2	Q1	25	-	-	-	3
BIOC9245-1	<i>Macromolecules chemistry</i> - Moreno GALLEN, Loïc QUINTON	B2	Q2	20	10	-	-	3

Exceptionally, and with the agreement of the Jury, one or several courses can be chosen in another programme (for instance, in relation with the student's final dissertation,...)

Teaching focus (B2 : 30Cr)

AESS1217-1	<i>Special didactics in biology : course and exercises (1st part)</i> - MarieNoëlle HINDRYCKX Corequisite : AESS1218-1 - Didactique spéciale en biologie : stages (partim I) AESS0202-1 - Didactique générale : cours et exercices ; stages d'observation ; pratiques réflexives	B2	TA	40	-	-	-	3
AESS1218-1	<i>Special didactics in biology : placements (1st part)</i> - <i>Observation placements</i> - MarieNoëlle HINDRYCKX - [10h Internship] - <i>Teaching placements</i> - MarieNoëlle HINDRYCKX - [20h Internship] - <i>Reflexive practical work</i> - MarieNoëlle HINDRYCKX	B2	TA	-	-	[+]	-	3
AESS2217-1	<i>Special didactics in biology : course and exercises (2nd part)</i> - MarieNoëlle HINDRYCKX Corequisite : AESS2218-1 - Didactique spéciale en biologie : stages (partim II) AESS1218-1 - Didactique spéciale en biologie : stages (partim I) AESS1217-1 - Didactique spéciale en biologie : cours et exercices (partim I) AESS0202-1 - Didactique générale : cours et exercices ; stages d'observation ; pratiques réflexives	B2	TA	35	-	-	-	4
AESS2218-1	<i>Special didactics in biology : placements (2nd part)</i> - <i>Teaching placements</i> - MarieNoëlle HINDRYCKX - [20h Internship] - <i>Reflexive practical work</i> - MarieNoëlle HINDRYCKX - <i>Extra-scholar teaching activities</i> - MarieNoëlle HINDRYCKX	B2	TA	-	-	[+]	-	5

Corequisite :

AESS2217-1 - Didactique spéciale en biologie : cours et exercices (partim II)

AESS1218-1 - Didactique spéciale en biologie : stages (partim I)

AESS1217-1 - Didactique spéciale en biologie : cours et exercices (partim I)

AESS0202-1 - Didactique générale : cours et exercices ; stages d'observation ; pratiques réflexives

AESS0202-1 *General didactics: course and exercises ; observation placements ; reflexive practices* - Annick FAGNANT - [10h Internship] B2 TA 30 10 [+] 4

Corequisite :

AESS1218-1 - Didactique spéciale en biologie : stages (partim I)

AESS1217-1 - Didactique spéciale en biologie : cours et exercices (partim I)

AESS0246-1 *Analysis of scholastic institutions and educational policies* - Annelise VOISIN B2 Q2 15 - - 1

AESS0248-1 *Elements of sociology of education* - JeanFrançois GUILLAUME B2 Q2 10 - - 1

AESS0004-1 *Media education* - Jérémy HAMERS B2 Q1 15 - - 1

AESS0249-1 *Interdisciplinary seminar* - Annick FAGNANT B2 Q1 15 - - 1

AESS0140-1 *Professional ethics and training to neutrality and citizenship* - Anne HERLA B2 Q2 25 - - 2

AESS0143-1 *Educational Psychology of adolescents and young adults* - Annick FAGNANT, Christelle GOFFIN B2 Q1 15 - - 2

AESS0339-1 *Understand and manage the diversity of public schools* - Ariane BAYE B2 TA 10 15 - 3

Professional focus in conservation biology : biodiversity and management (B2 : 30Cr)

SSTG0063-1 *Professional development internship* - Alain HAMBUCKERS - [20d FW] B2 TA - - [+] 2

SSTG0047-2 *Internship: mountain biodiversity and ecology* - COLLÉGIALITÉ - [12d FW] B2 Q1 - - [+] 3

BIOD0007-1 *Biodiversity analysis methods* - Community - Adeline FAYOLLE - [8h AUTR] - Populations - Arnaud MONTY B2 Q1 12 12 15 9 [+] 3

GEOG2013-1 *Introduction to geomorphology, hydrography and hydrology* - Geoffrey HOUBRECHTS - [2d FW] B2 Q1 15 10 [+] 3

SPOL2209-3 *Environmental and land policies* - Sophie HANSON B2 Q1 30 - - 3

GEOG2024-2 *Territorial diagnosis workshops and qualitative methods, Part 1* - Serge SCHMITZ B2 Q1 15 25 - 3

GEST3760-1 *Project management and immaterial resources* - Sabine HAINE, Jocelyne ROBERT B2 Q1 12 - - 2

BIOL2033-1 *Monitoring of the biodiversity and dynamics of citizen* - Johann DELCOURT, Mathieu DENOËL, Alain HAMBUCKERS, Michaël OVIDIO - [8d FW] B2 Q1 20 24 [+] 4

BIOL2034-1 *Applied questions in biodiversity* - Dorothée DENAYER, Nicolas MAGAIN B2 TA 20 - - 3

BIOL2035-1 *Day trips on the themes of conservation and territory use* - Nicolas MAGAIN - [8d FW] B2 TA - - [+] 2

GEOG0238-5 *Geographical Information Systems, Introduction* - Roland BILLEN, François JONARD B2 Q1 15 15 - 2

With the jury's agreement, one course which has already been followed may be replaced by one or more alternative courses from the Uliège programme for the same number of credits.

Notice : The dissertation can be done in a structure external to the University of Liège (public services, companies, NGO) and will relate to themes applied in the field of nature conservation. If

necessary, students can do their placement in another country

Additional ECTS (max 15-60) Master in biology of organisms and ecology (120 ECTS)

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.). (B0 : 60Cr)

[...] At most 60 credits of courses

BIOL0003-1	<i>Biology of pluricellular organisms</i> - <i>Animal</i> - Véronique GOOSSE, Eric PARMENTIER - <i>Plant Biology</i> - Claire PÉRILLEUX	-	Q1	15	15	-		5
BIOL0518-2	<i>Biodiversity and ecology, Notions and concepts</i> - Gabriel CASTILLO CABELLO, Bruno FREDERICH, Eric PARMENTIER	B0	Q1	60	-	-		7
BIOL2039-2	<i>Freshwater ecology, Theory</i> - Anne GOFFART, Véronique GOOSSE, Célia JOAQUIMJUSTO	B0	Q2	20	-	-		2
DOCU0460-1	<i>Training in the use of documentary resources (refresher course)</i> - Ninfa GRECO	B0	Q1	6	6	-		1

List of option courses

HAAR0091-1	<i>Archaeozoology</i> - Annick GABRIEL	B2	Q1	15	15	-		3
GEOL0099-1	<i>Biodiversity and extinctions (english language)</i> - Valentin FISCHER - [2d FW]	B2	Q1	25	-		[+]	3
GEOL1022-2	<i>Precambrian paleobiogeology</i> - Emmanuelle JAVAUX	B2	Q1	20	10	-		3
GEOL0263-1	<i>Astrobiology (english language)</i> - Vincianne DEBAILLE, Véronique DEHANT, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE	B2	Q2	45	-	-		3
GEOL1023-1	<i>Palynology - advanced course on Paleozoic spores</i> - Cyrille PRESTIANNI, Philippe STEEMANS (Odd years)	B2	Q2	30	-	-		3
BIOL0114-4	<i>Electronic microscopies, Part A</i> - Philippe COMPÈRE	B2	Q2	15	-	-		3
CHIM9236-1	<i>Microstructure of materials : characterization techniques, Part A</i> - Catherine HENRIST	B2	Q2	15	-	-		3
NEUR0434-1	<i>Functional Neuroanatomy</i> - JeanChristophe PLUMIER	B2	Q2	30	-	-		3
BIOL0822-1	<i>Environmental physiology (english language)</i> - JeanChristophe PLUMIER	B2	Q1	10	20	-		3
BIOL0823-1	<i>Ultrastructural cytochemistry</i> - Philippe COMPÈRE, Marc THIRY	B2	Q2	30	-	-		3
OCEA0083-1	<i>Physiology and biochemistry of the marine animals (english language)</i> - Philippe COMPÈRE	B2	Q1	15	15	-		3
GENE0003-1	<i>Genomics</i> - Marc HANIKENNE	B2	Q2	20	-	-		3
OCEA0226-1	<i>Introduction to aquaculture</i> - Carole ROUGEOT	B2	Q1	30	-	-		3
GENE0441-1	<i>Organelle genetics</i> - <i>Part A</i> - Claire REMACLE - <i>Part B</i> - Claire REMACLE	B2	Q2	15	-	-		3
LABO0432-1	<i>Techniques for cells and tissue cultures</i> - Erik MAQUOI	B2	Q1	8	20	-		3
BIOL0844-1	<i>General biology of cryptogams (bryophyta and lichens)</i> - Nicolas MAGAIN, Alain VANDERPOORTEN	B2	Q2	30	-	-		3
ZOOL0230-2	<i>Methods to count and monitor freshwater fish populations</i> -	B2	Q2	-	10		[+]	3

VIDIO - [4d FW]

ZOOL0218-4	<i>Aquariology</i> - Christian MICHEL	B2	Q1	20	-	-	3
OCEA0144-1	<i>Ecology of the coral reefs</i> (english language) - N..., Stéphane ROBERTY	B2	Q1	30	-	-	3
OCEA0027-1	<i>Applications of stable isotopes in marine sciences</i> - Gilles LEPOINT, Loïc MICHEL	B2	Q1	15	15	-	3
DOCU0455-1	<i>Introduction to critical thinking</i> - <i>Theory</i> - Yaël NAZÉ - <i>Practice</i> - Yaël NAZÉ	B2	Q2	10	-	-	3
LANG2971-2	<i>Academic English Writing</i> (english language) - Clara BRERETON, Véronique DOPPAGNE, ISLV	B2	Q1	25	-	-	3
BIOC9245-1	<i>Macromolecules chemistry</i> - Moreno GALLEN, Loïc QUINTON	B2	Q2	20	10	-	3