

Block view of the study programme

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Block 1
Compulsory courses
Specialised courses in Biology and Ecology

SSTG0046-1	<i>Naturalistic building upon applied in conservation</i> - Nicolas MAGAIN - [10d FW]	TA	-	-	[+]	3
SSTG0024-1	<i>Training: biodiversity, phylogeny and ecology</i> - Patrick DAUBY, Johann DELCOURT, Bruno FREDERICH, Véronique GOOSSE, Alain HAMBUCKERS, Mathieu POULICEK - [10d FW]	TA	-	-	[+]	5
BIOL0852-1	<i>Ecosystems and climate change</i> - Monique CARNOL	Q2	24	16	-	3
BIOL0810-2	<i>Conservation biology</i> - Nicolas MAGAIN - [1d FW]	Q2	30	10	[+]	4
BIOL0808-2	<i>Functional morphology</i> - <i>Marine vertebrates</i> - Eric PARMENTIER - <i>Birds, mammals, biomimicry</i> - Eric PARMENTIER - [1d Vis.]	Q1		15 5	10 15	- [+]
PALE0209-1	<i>Paleontology</i> - Valentin FISCHER, Emmanuelle JAVAUX, Cyrille PRESTIANNI	Q1	30	-	-	3
BIOL0866-1	<i>Ecophysiology</i> - Claire PÉRILLEUX, JeanChristophe PLUMIER	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	Q1	-	20	-	3
BIOL2213-1	<i>Behavioural ecology</i> - Mathieu DENOËL	Q1	20	-	-	3

Specialised courses in applied Ecology and Ecotoxicology

ENVT3045-1	<i>Ecosystems : conditions, anthropic impacts and management</i> - Dorothee DENAYER, Célia JOAQUIMJUSTO - [2d FW]	Q1	26	6	[+]	3
BIOL0854-1	<i>Ecotoxicology (english language)</i> - Célia JOAQUIMJUSTO	Q1	20	18	-	4

Population study and phylogenetics

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

Transversal training

AESS0320-1	<i>Initiation to biology didactics</i> - MarieNoëlle HINDRYCKX	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. Jean-Christophe PLUMIER).

Block 2

Compulsory courses

SMEM0013-1	<i>Final thesis</i> - COLLÉGIALITÉ	TA	-	-	-	27
	Corequisite : DOCU0459-2 - Formation à la documentation et préparation à la réalisation du mémoire					
DOCU0459-2	<i>Documentation training and preparation to the final thesis</i>	Q1				3
	- <i>Bibliographic research</i> - Ninfa GRECO - [20h Mon. WS]		-	-		[+]
	- <i>Preparation to the final thesis</i> - Monique CARNOL - [10h Mon. WS]		-	-		[+]
	Corequisite : SMEM0013-1 - Mémoire					

Focus to be chosen

Choose one focus from the following :

Research Focus

Choose one module from :

Module: Basic ethology and applied to population management

Choose courses totalling 15 ECTS out of the following :

General courses in ethology

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

Ethology of wildlife and management of fauna

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

Module: Applied ecology and ecotoxicology

Choose courses totalling 15 ECTS out of the following :

Anthropic impact on ecosystems and ecotoxicology

BIOL0860-1	<i>Soil ecotoxicology and bioremediation</i> - Monique CARNOL, Marc HANIKENNE, Célia JOAQUIMJUSTO	Q1	24	12	-	3
BIOL0861-1	<i>Integrated management of entomological biodiversity</i> - Frédéric FRANCIS	Q1	15	15	-	3
OCEA0157-1	<i>Biodegradation of organic molecules in a sea environment</i> (english language) - Mathieu POULICEK	Q1	20	-	-	3
OCEA0084-1	<i>Marine ecotoxicology</i> (english language) - Krishna DAS	Q1	15	15	-	3

Applied Methodology to Ecology and Ecotoxicology

SSTG0054-1	<i>Applications and case studies in ecology</i> - Bruno FREDERICH - [6d FW]	Q2	-	-	[+]	3
BIOL0862-1	<i>Quantification of the environmental risk associated with pollutants and decision-making</i> (english language) - Célia JOAQUIMJUSTO	Q1	16	8	-	3
BIOL0863-1	<i>Analytical tools and assistance for integrated management</i> - JeanFrançois DELIÈGE, Sylvie GOBERT	Q1	30	-	-	3

Module: Biology and Ecology

Choose courses totalling 15 ECTS out of the following :

BOTA0410-1	<i>Phylogeny of eukaryotes</i> - Denis BAURAIN	Q1	30	-	-	3
BIOL0025-1	<i>Animal symbiosis</i> - JeanChristophe PLUMIER, Stéphane ROBERTY	Q1	15	15	-	3
BIOL0030-1	<i>Modeling dynamical biological systems</i> (english language) - Marilaure GRÉGOIRE, Patrick MEYER - [15h Mon. WS]	Q2	15	-	[+]	3
OCEA0085-1	<i>Methods of investigation, observation and analysis of marine plankton</i> - Anne GOFFART - [12h Mon. WS]	Q1	10	5	[+]	3
OCEA0050-1	<i>Ecology of the Mediterranean benthos</i> - Sylvie GOBERT, Mathieu POULICEK - [30h FW]	Q1	-	-	[+]	3
OCEA0223-1	<i>Biodiversity of tropical coastal regions</i> - Bruno FREDERICH, Gilles LEPOINT, Richard RASOLOFONIRINA - [15d FW]	Q2	-	-	[+]	3
BIOL0820-1	<i>Morphological specific aspects of vertebrates : functional approach</i> - Eric PARMENTIER	Q2	30	-	-	3
CHIM9212-1	<i>Biological applications of radioelements</i> - Philippe COMPÈRE	Q2	30	-	-	3
BIOL2042-1	<i>Population Biology</i> - Johan MICHAUX - [3d FW]	Q2	10	-	[+]	3
BIOL0821-1	<i>Natural Biomaterials : ultrastructural and functional aspects</i> - Philippe COMPÈRE	Q2	30	-	-	3
GBIO0022-1	<i>Biomimicry</i> (english language) - Philippe COMPÈRE, Liesbet GERIS, Tristan GILET, Davide RUFFONI - [45h Proj.]	TA	15	-	[+]	3
GEOG0238-3	<i>Geographical Information Systems, Introduction</i> - N... - Suppl : Roland BILLEN, François JONARD	Q2	15	15	-	3

With the agreement of the Jury, choose courses totalling 15 credits among:

[...] module courses: (recommendation: courses from an already chosen module)

[...] the optional courses list:

HAAR0091-1	<i>Archaeozoology</i> - Annick GABRIEL	Q1	15	15	-	3
GEOL0099-1	<i>Evolution of the Phanerozoic biosphere</i> (english language) - Valentin FISCHER - [2d FW] Prerequisite : PALE0209-1 - Paléontologie	Q1	20	-	[+]	3

Corequisite :

GEOL1022-2 - Paléobiogéologie du Précambrien

GEOL1022-2	<i>Precambrian paleobiogeology</i> - Emmanuelle JAVAUX	Q1	20	10	-	3
GEOL0263-1	<i>Astrobiology</i> (english language) - Vincianne DEBAILLE, Véronique DEHANT, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE	Q2	45	-	-	3
GEOL1023-1	<i>Palynology - advanced course on Paleozoic spores</i> - Philippe STEEMANS (Odd years)	Q2	30	-	-	3
BIOL0114-4	<i>Electronic microscopies, Part A</i> - Philippe COMPÈRE	Q2	15	-	-	3
CHIM9236-1	<i>Microstructure of materials : characterization techniques, Part A</i> - Catherine HENRIST	Q2	15	-	-	3
NEUR0434-1	<i>Functional Neuroanatomy</i> - JeanChristophe PLUMIER	Q2	30	-	-	3
BIOL0822-1	<i>Environmental physiology</i> (english language) - JeanChristophe PLUMIER	Q1	10	20	-	3
BIOL0823-1	<i>Ultrastructural cytochemistry</i> - Philippe COMPÈRE, Marc THIRY	Q2	30	-	-	3
OCEA0083-1	<i>Physiology and biochemistry of the marine animals</i> (english language) - Philippe COMPÈRE	Q1	15	15	-	3
GENE0003-1	<i>Genomics</i> - Marc HANIKENNE	Q1	20	-	-	3
OCEA0226-1	<i>Introduction to aquaculture</i> - Carole ROUGEOT	Q1	30	-	-	3
GENE0441-1	<i>Organelle genetics</i> - Part A - Claire REMACLE - Part B - Claire REMACLE	Q2				3
			15	-	-	
			15	-	-	
LABO0432-1	<i>Techniques for cells and tissue cultures</i> - Erik MAQUOI	Q1	8	20	-	3
SSTG0023-1	<i>Training : phylogeny and ecology of Macaronesian and Mediterranean flora</i> - Alain HAMBUECKERS, Nicolas MAGAIN - [10d FW]	Q2	-	-	[+]	3
BIOL0844-1	<i>General biology of cryptogams (bryophyta and lichens)</i> - Nicolas MAGAIN, Alain VANDERPOORTEN	Q2	30	-	-	3
BIOL0826-2	<i>Biogeography and plant and nature conservation</i> - Nicolas MAGAIN - [6d FW]	Q2	-	-	[+]	3
ZOOL0230-2	<i>Methods to count and monitor freshwater fish populations</i> - Michaël OVIDIO - [4d FW]	Q2	-	10	[+]	3
ZOOL0218-4	<i>Aquariology</i> - Christian MICHEL	Q1	20	-	-	3
OCEA0144-1	<i>Ecology of the coral reefs</i> (english language) - Mathieu POULICEK	Q1	30	-	-	3
OCEA0028-1	<i>Impact study in a sea environment : theory and practice</i> - Pierre LEJEUNE	Q1	20	-	-	3
OCEA0027-1	<i>Applications of stable isotopes in marine sciences</i> - Gilles LEPOINT, Loïc MICHEL	Q1	15	15	-	3
DOCU0455-1	<i>Introduction to critical thinking</i> - Theory - Yaël NAZÉ - Practice - Yaël NAZÉ	Q2				3
			10	-	-	
			-	5	-	
LANG2971-2	<i>Academic English Writing</i> (english language) - Clara BRERETON, Véronique DOPPAGNE, ISLV	Q1	25	-	-	3
BIOC9245-1	<i>Macromolecules chemistry</i> - Moreno GALLEN, Loïc QUINTON	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

AESS1217-1	<i>Special didactics in biology : course and exercises (1st part)</i> -	TA	40	-	-	3
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MarieNoëlle HINDRYCKX

Corequisite :

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

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

AESS1218-1	<i>Special didactics in biology : placements (1st part)</i>	TA			3
	- <i>Observation placements</i> - MarieNoëlle HINDRYCKX - [10h Internship]	-	-	[+]	
	- <i>Teaching placements</i> - MarieNoëlle HINDRYCKX - [20h Internship]	-	-	[+]	
	- <i>Reflexive practical work</i> - MarieNoëlle HINDRYCKX	-	5	-	

Corequisite :

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

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

AESS2217-1	<i>Special didactics in biology : course and exercises (2nd part)</i> - MarieNoëlle HINDRYCKX	TA	35	-	-	4
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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

AESS2218-1	<i>Special didactics in biology : placements (2nd part)</i>	TA			5
	- <i>Teaching placements</i> - MarieNoëlle HINDRYCKX - [20h Internship]	-	-	[+]	
	- <i>Reflexive practical work</i> - MarieNoëlle HINDRYCKX	-	5	-	
	- <i>Extra-scholar teaching activities</i> - MarieNoëlle HINDRYCKX	-	10	-	

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	<i>General didactics: course and exercises ; observation placements ; reflexive practices</i> - Annick FAGNANT - [10h Internship]	TA	30	10	[+]	4
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Corequisite :

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

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

AESS0246-1	<i>Analysis of scholastic institutions and key-players, educational policies</i> - Dominique LAFONTAINE - Suppl : MarieThérèse DELHOUNE	Q1	15	-	-	1
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AESS0248-1	<i>Elements of sociology of education</i> - JeanFrançois GUILLAUME	Q2	10	-	-	1
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AESS0004-1	<i>Media education</i> - Jérémy HAMERS	Q1	15	-	-	1
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AESS0249-1	<i>Interdisciplinary seminar</i> - Annick FAGNANT	Q1	15	-	-	1
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AESS0140-1	<i>Professional ethics and training to neutrality and citizenship</i> - Anne HERLA	Q2	25	-	-	2
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AESS0143-1	<i>Educational Psychology of adolescents and young adults</i> - Annick FAGNANT, Christelle GOFFIN	Q1	15	-	-	2
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AESS0339-1	<i>Understand and manage the diversity of public schools</i> - Ariane BAYE	Q2	10	15	-	3
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Professional focus in conservation biology : biodiversity and management

SSTG0063-1	<i>Professional development internship</i> - Alain HAMBUECKERS - [1mois FW]	TA	-	-	[+]	2
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SSTG0047-2	<i>Internship: mountain biodiversity and ecology</i> - COLLÉGIALITÉ - [12d FW]	Q1	-	-	[+]	3
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BIOD0007-1	<i>Biodiversity analysis methods : community and populations</i> - Adeline FAYOLLE, Grégory MAHY, Arnaud MONTY - [8h FT]	Q1	20	20	[+]	3
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GEOG2013-1	<i>Introduction to geomorphology, hydrography and hydrology</i> - Geoffrey HOUBRECHTS - [2d FW]	Q1	15	10	[+]	3
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SPOL2209-3	<i>Environmental and land policies</i> - Sophie HANSON	Q1	30	-	-	3
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GEOG2024-2	<i>Territorial diagnosis workshops and qualitative methods, Part 1</i> - Serge SCHMITZ	Q1	15	25	-	3
GEST3760-1	<i>Project management and immaterial resources</i> - Sabine HAINE, Jocelyne ROBERT	Q1	12	-	-	2
BIOL2033-1	<i>Monitoring of the biodiversity and dynamics of citizen</i> - Johann DELCOURT, Mathieu DENOËL, Alain HAMBUECKERS, Michaël OVIDIO - [8d FW]	Q1	20	24	[+]	4
BIOL2034-1	<i>Applied questions in biodiversity</i> - Nicolas MAGAIN	TA	20	-	-	3
BIOL2035-1	<i>Day trips on the themes of conservation and territory use</i> - Nicolas MAGAIN - [8d FW]	TA	-	-	[+]	2
GEOG0238-5	<i>Geographical Information Systems, Introduction</i> - - Suppl : Roland BILLEN, François JONARD	Q1	15	15	-	2

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

Bloc d'aménagement du programme de l'année

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

Optional courses

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.).

[...] At most 60 credits of courses

BIOL0003-1	<i>Biology of pluricellular organisms</i>	Q1				5
	- <i>Animal</i> - MarieFrance VERSALI		15	15	-	
	- <i>Plant Biology</i> - Claire PÉRILLEUX		15	15	-	

List of option courses

HAAR0091-1	<i>Archaeozoology</i> - Annick GABRIEL	Q1	15	15	-	3
GEOL0099-1	<i>Evolution of the Phanerozoic biosphere (english language)</i> - Valentin FISCHER - [2d FW]	Q1	20	-	[+]	3
	Prerequisite : PALE0209-1 - Paléontologie					
	Corequisite : GEOL1022-2 - Paléobiogéologie du Précambrien					
GEOL1022-2	<i>Precambrian paleobiogeology</i> - Emmanuelle JAVAUX	Q1	20	10	-	3
GEOL0263-1	<i>Astrobiology (english language)</i> - Vincianne DEBAILLE, Véronique DEHANT, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE	Q2	45	-	-	3
GEOL1023-1	<i>Palynology - advanced course on Paleozoic spores</i> - Philippe STEEMANS (Odd years)	Q2	30	-	-	3
BIOL0114-4	<i>Electronic microscopies, Part A</i> - Philippe COMPÈRE	Q2	15	-	-	3
CHIM9236-1	<i>Microstructure of materials : characterization techniques, Part A</i> - Catherine HENRIST	Q2	15	-	-	3
NEUR0434-1	<i>Functional Neuroanatomy</i> - JeanChristophe PLUMIER	Q2	30	-	-	3
BIOL0822-1	<i>Environmental physiology (english language)</i> - JeanChristophe PLUMIER	Q1	10	20	-	3

BIOL0823-1	<i>Ultrastructural cytochemistry</i> - Philippe COMPÈRE, Marc THIRY	Q2	30	-	-	3
OCEA0083-1	<i>Physiology and biochemistry of the marine animals</i> (english language) - Philippe COMPÈRE	Q1	15	15	-	3
GENE0003-1	<i>Genomics</i> - Marc HANIKENNE	Q1	20	-	-	3
OCEA0226-1	<i>Introduction to aquaculture</i> - Carole ROUGEOT	Q1	30	-	-	3
GENE0441-1	<i>Organelle genetics</i> - Part A - Claire REMACLE - Part B - Claire REMACLE	Q2				3
			15	-	-	
			15	-	-	
LABO0432-1	<i>Techniques for cells and tissue cultures</i> - Erik MAQUOI	Q1	8	20	-	3
SSTG0023-1	<i>Training : phylogeny and ecology of Macaronesian and Mediterranean flora</i> - Alain HAMBUCKERS, Nicolas MAGAIN - [10d FW]	Q2	-	-	[+]	3
BIOL0844-1	<i>General biology of cryptogams (bryophyta and lichens)</i> - Nicolas MAGAIN, Alain VANDERPOORTEN	Q2	30	-	-	3
BIOL0826-2	<i>Biogeography and plant and nature conservation</i> - Nicolas MAGAIN - [6d FW]	Q2	-	-	[+]	3
ZOOL0230-2	<i>Methods to count and monitor freshwater fish populations</i> - Michaël OVIDIO - [4d FW]	Q2	-	10	[+]	3
ZOOL0218-4	<i>Aquariology</i> - Christian MICHEL	Q1	20	-	-	3
OCEA0144-1	<i>Ecology of the coral reefs</i> (english language) - Mathieu POULICEK	Q1	30	-	-	3
OCEA0028-1	<i>Impact study in a sea environment : theory and practice</i> - Pierre LEJEUNE	Q1	20	-	-	3
OCEA0027-1	<i>Applications of stable isotopes in marine sciences</i> - Gilles LEPOINT, Loïc MICHEL	Q1	15	15	-	3
DOCU0455-1	<i>Introduction to critical thinking</i> - Theory - Yaël NAZÉ - Practice - Yaël NAZÉ	Q2				3
			10	-	-	
			-	5	-	
LANG2971-2	<i>Academic English Writing</i> (english language) - Clara BRERETON, Véronique DOPPAGNE, ISLV	Q1	25	-	-	3
BIOC9245-1	<i>Macromolecules chemistry</i> - Moreno GALLEN, Loïc QUINTON	Q2	20	10	-	3