

Block view of the study programme

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Block 1

Compulsory courses

AESS0320-1 *Initiation to biology didactics* - MarieNoëlle HINDRYCKX Q1 20 20 - 2

Biology of Organisms

GENE0446-2 *Population genetics* - Johan MICHAUX, Claire REMACLE Q1 25 15 - 4

BIOL2040-1 *Taxonomy and phylogeny of chlorophyll lines* - Emmanuël SÉRUSIAUX Q1 25 15 - 3

Corequisite :

GENE0448-1 - Méthodes de phylogénie

BIOL2041-1 - Taxonomie et phylogénie animales

BIOL2041-1 *Animal taxonomy and phylogeny* - Patrick DAUBY Q1 40 30 - 5

Corequisite :

GENE0448-2 - Méthodes de phylogénie

BIOL2040-1 - Taxonomie et phylogénie des lignées chlorophylliennes

GENE0448-1 *Phylogenetic methods* - Denis BAURAIN Q1 20 15 - 3

Corequisite :

BIOL2041-1 - Taxonomie et phylogénie animales

BIOL2040-1 - Taxonomie et phylogénie des lignées chlorophylliennes

PALE0209-1 *Paleontology* - Valentin FISCHER, Philippe GERRIENNE, Emmanuelle JAVAUX Q2 40 30 - 6

BIOL0808-2 *Functional morphology* - Eric PARMENTIER - [1d Vis.] Q1 20 25 [+] 4

Ecology

BIOL0809-1 *Ecophysiology, ethology* - Mathieu DENOËL, Claire PÉRILLEUX, JeanChristophe PLUMIER - [3d FW] Q1 40 15 [+] 6

BIOL0810-2 *Conservation Biology* - Emmanuël SÉRUSIAUX - [1d FW] Q2 40 20 [+] 6

BIOL0811-1 *Natural resources and ecosystem disruptions* - Monique CARNOL, Célia JOAQUIMJUSTO, JeanPierre THOMÉ - [1d FW] Q2 40 39 [+] 7

BIOL0812-2 *Biogeography* - Johan MICHAUX, Alain VANDERPOORTEN - [3d FW] Q2 30 - [+] 4

BIOL2042-1 *Population Biology* - Johan MICHAUX - [3d FW] Q2 10 - [+] 2

Placement in the ecology field.

SSTG0024-1 *Training : biodiversity, phylogeny and marine ecology* - Patrick DAUBY, Véronique GOOSSE, Mathieu POULICEK, JeanPierre THOMÉ - [10d FW] Q2 - - [+] 4

SSTG0046-1 *Naturalistic building upon applied in conservation* - Emmanuël SÉRUSIAUX - [10d FW] TA - - [+] 4

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 *Final thesis* - COLLÉGIALITÉ TA - - - 28

Corequisite :

BIOL0843-1 - Préparation à la réalisation du mémoire

BIOL0843-1 *Preparation to the final thesis* - COLLÉGIALITÉ TA - - - 2

Corequisite :

SMEM0013-1 - Mémoire

Focus to be choosen

Choose one focus from the following :

Research Focus

STAT0750-1	<i>Multivariate statistical analysis (software R)</i> - Gentiane HAESBROECK	Q1	10	10	-	2
LANG2971-1	<i>Academic English Writing (english language)</i> - Clara BRERETON, Véronique DOPPAGNE, ISLV	Q1	30	-	-	4
DOCU0448-2	<i>Documentation training applied to biology</i> - Ninfa GRECO - [20h Mon. WS]	Q1	-	-	[+]	2
SSTG0040-1	<i>Professional development file</i> - Monique CARNOL, Sandrine MALCHAIR - [30h Mon. WS] Corequisite : BIOL0843-1 - Préparation à la réalisation du mémoire SMEM0013-1 - Mémoire	TA	30	-	[+]	7

In agreement with the Jury, choose courses for a total of 15 credits from :

BIOL0820-1	<i>Morphological specific aspects of vertebrates : functional approach</i> - Eric PARMENTIER	Q2	30	-	-	3
GEOL0099-1	<i>Evolution of the Phanerozoic biosphere (english language)</i> - Valentin FISCHER - [2d FW] Prerequisite : PALE0209-1 - Paléontologie Corequisite : GEOL1022-2 - Evolution de la biosphère précambrienne	Q1	20	-	[+]	3
HAAR0091-2	<i>Archaeozoology</i> - Annick GABRIEL	Q1	30	-	-	3
ZOOL0218-4	<i>Aquariology</i> - Christian MICHEL	Q1	30	-	-	3
BIOL0821-1	<i>Natural Biomaterials : ultrastructural and functional aspects</i> - Philippe COMPÈRE	Q2	30	-	-	3
BIOL0114-4	<i>Electronic microscopies</i> - Philippe COMPÈRE	Q2	15	-	-	3
CHIM9236-1	<i>Microstructure of Materials : characterization techniques</i> - Catherine HENRIST	Q2	15	-	-	3
GEOL1022-2	<i>Evolution of the biosphere in the Precambrian</i> - Emmanuelle JAVAUX	Q1	20	10	-	3
GEOL0263-2	<i>Astrobiology</i> - Philippe CLAEYS, Véronique DEHANT, Moreno GALLEN, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE (Even years)	Q2	30	-	-	3
NEUR0434-1	<i>Functional Neuroanatomy</i> - JeanChristophe PLUMIER	Q2	30	-	-	3
BIOL0822-1	<i>Advanced Course in Animal Physiology</i> - JeanChristophe PLUMIER	Q2	30	-	-	3
BIOL0823-1	<i>Ultrastructural cytochemistry</i> - Philippe COMPÈRE, Marc THIRY	Q2	30	-	-	3
OCEA0083-1	<i>Physiology and biochemistry of the marine animals (english language)</i> - Philippe COMPÈRE	Q1	15	15	-	3
CHIM9212-1	<i>Biological applications of radioelements</i> - Philippe COMPÈRE	Q2	30	-	-	3
ZOOL0227-1	<i>Genetic foundations of aquaculture</i> - Charles MÉLARD	Q1	30	-	-	3
GENE0441-1	<i>organelle genetics</i> - Claire REMACLE	Q2	30	-	-	3
LABO0432-2	<i>Techniques for cells and tissue cultures</i> - MarieClaire GILLET	Q1	30	-	-	3
GBIO0022-1	<i>Biomimeticism (english language)</i> - Philippe COMPÈRE, Liesbet GERIS, Tristan GILET, Eric PARMENTIER, Davide RUFFONI - [45h Proj.]	TA	15	-	[+]	3
BIOL0025-1	<i>Animal symbiosis</i> - JeanChristophe PLUMIER	Q2	30	-	-	3
GBIO0005-2	<i>Introduction to cognitive neurosciences</i> - Gilles VANDEWALLE	Q2	15	15	-	3
SSTG0023-1	<i>Training : phylogeny and ecology of Macaronesian and Mediterranean flora</i> - Alain HAMBUECKERS, Emmanuël SÉRUSIAUX - [10d FW]	Q2	-	-	[+]	3

GEOL1023-1	<i>Palynology - advanced course on Paleozoic spores</i> - Philippe STEEMANS (Odd years)	Q2	30	-	-	3
BOTA0405-1	<i>In vitro culture of plants</i> - Claire KEVERS	Q2	30	-	-	3
BOTA0410-1	<i>Phylogeny of eukaryotes</i> - Denis BAURAIN	Q1	30	-	-	3
BIOL0844-1	<i>General biology of cryptogams (bryophyta and lichens)</i> - Emmanuël SÉRUSIAUX, Alain VANDERPOORTEN	Q2	30	-	-	3
BIOL0826-2	<i>Biogeography and plant and nature conservation</i> - Emmanuël SÉRUSIAUX - [6d FW]	Q2	-	-	[+]	3
ZOOL0228-1	<i>Demography and dynamics population of mammals and birds</i> - Roland LIBOIS	Q1	30	-	-	3
ZOOL0230-2	<i>Development and management of freshwater fish population and their habitat</i> - Michaël OVIDIO	Q1	10	18	-	3
BIOL0828-1	<i>Hydrobiology and Limnology</i> - Anne GOFFART, Célia JOAQUIMJUSTO, JeanPierre THOMÉ	Q1	30	-	-	3
ENVT0737-2	<i>Transfer and ecotoxicology of the micropollutants in the watery ecosystems</i> - Célia JOAQUIMJUSTO, JeanPierre THOMÉ Prerequisite : BIOL0811-1 - Ressources naturelles et perturbations des écosystèmes	Q1	30	-	-	3
OCEA0084-1	<i>Marine ecotoxicology (english language)</i> - Krishna DAS	Q1	15	15	-	3
OCEA0001-3	<i>Oceanology and underwater biology</i> - Sylvie GOBERT	Q2	30	-	-	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
OCEA0144-1	<i>Ecology of the coral reefs (english language)</i> - Mathieu POULICEK	Q1	30	-	-	3
ENVT0884-1	<i>Ecology and economy of agricultural systems</i> - Alain HAMBUECKERS	Q1	30	-	-	3
PSYC1063-1	<i>Social ethology</i> - Fany BROTCORNE, Pascal PONCIN	Q2	30	-	-	3
PSYC1064-1	<i>Behavioural primatology</i> - Fany BROTCORNE	Q1	30	-	-	3
ZOOL0002-2	<i>Ethology applied to population management</i> - Pascal PONCIN - [1d FW]	Q2	20	-	[+]	3
ZOOL0232-1	<i>Ethology and amphibian conservation</i> - Mathieu DENOËL - [1d FW]	Q1	20	-	[+]	3
ZOOL0231-2	<i>Rhythms and behaviour in fish : endocrine aspects</i> - Pascal PONCIN - [1d FW]	Q2	20	-	[+]	3
OCEA0043-2	<i>Ecoethology of the marine animals</i> - Christian MICHEL	Q1	30	-	-	3
VETE0014-1	<i>Domestic Animal Behaviour Science</i> - Marc VANDENHEEDE	Q1	32	-	-	3
PSYC0061-1	<i>Animal cognition</i> - André FERRARA	Q2	30	-	-	3
PSYC0063-1	<i>Behavioural neuroendocrinology</i> - Charlotte CORNIL	Q1	30	-	-	3
DOCU0455-1	<i>Introduction to critical thinking</i> - Yaël NAZÉ	Q2	10	5	-	3
GENE0003-1	<i>Genomics</i> - Marc HANIKENNE	Q1	20	-	-	3
OCEA0028-1	<i>Impact study in a sea environment : theory and practice</i> - Pierre LEJEUNE	Q1	20	-	-	3
ZOOL2021-1	<i>Ecology and dynamics of freshwater fish populations</i> - Michaël OVIDIO	Q1	10	20	-	3

[...] With the agreement of the jury and the dissertation supervisor, students have the possibility to choose one or two courses from another option or another Masters.

Teaching focus

AESS1217-1	<i>Special didactics in biology : course and exercises (1st part) - MarieNoëlle HINDRYCKX</i>	TA	40	-	-	3
	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 - MarieNoëlle HINDRYCKX - [10h Internship]</i>		-	-	[+]	
	- <i>Teaching placements - MarieNoëlle HINDRYCKX - [20h Internship]</i>		-	-	[+]	
	- <i>Reflexive practical work - MarieNoëlle HINDRYCKX</i>		-	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) - MarieNoëlle HINDRYCKX</i>	TA	35	-	-	4
	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 - MarieNoëlle HINDRYCKX - [20h Internship]</i>		-	-	[+]	
	- <i>Reflexive practical work - MarieNoëlle HINDRYCKX</i>		-	5	-	
	- <i>Extra-scholar teaching activities - MarieNoëlle HINDRYCKX</i>		-	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 - Annick FAGNANT - [10h Internship]</i>	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	<i>Analysis of scholastic institutions and key-players, educational policies - Dominique LAFONTAINE - Suppl : MarieThérèse DELHOUNE</i>	Q1	15	-	-	1
AESS0248-1	<i>Elements of sociology of education - JeanFrançois GUILLAUME</i>	Q2	10	-	-	1
AESS0004-1	<i>Media education - Jérémy HAMERS</i>	Q1	15	-	-	1
AESS0249-1	<i>Interdisciplinary seminar - Annick FAGNANT</i>	Q2	15	-	-	1
AESS0140-1	<i>Professional ethics and training to neutrality and citizenship - Anne HERLA</i>	Q2	25	-	-	2
AESS0143-1	<i>Educational Psychology of adolescents and young adults - Annick FAGNANT</i>	Q1	15	-	-	2
AESS0339-1	<i>Understand and manage the diversity of public schools - Ariane BAYE</i>	Q2	10	15	-	3
Professional focus in conservation biology : biodiversity and management						
SSTG0047-2	<i>Internship: mountain biodiversity and ecology - COLLÉGIALITÉ - [12d FW]</i>	Q1	-	-	[+]	3
BIOD0007-1	<i>Biodiversity analysis methods : community and populations - Adeline FAYOLLE, Grégory MAHY, Arnaud MONTY - [8h FT]</i>	Q1	26	26	[+]	3
GEOG2013-1	<i>Introduction to geomorphology, hydrography and hydrology - Geoffrey HOUBRECHTS - [2d FW]</i>	Q1	15	10	[+]	3
SPOL2209-3	<i>Environmental and land policies - Sophie HANSON</i>	Q1	30	-	-	3
GEOG0643-1	<i>Citizen engagement methods and tools - Christine PARTOUNE - [2d FW]</i>	Q1	10	10	[+]	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> - Emmanuël SÉRUSIAUX	TA	20	-	-	2
BIOL2035-1	<i>Day trips on the themes of conservation and territory use</i> - Emmanuël SÉRUSIAUX - [8d FW]	TA	-	-	[+]	3
GEOG0238-5	<i>Geographical Information Systems, Introduction</i> - - Suppl : Pierre HALLOT	Q1	15	15	-	2
STAT1751-1	<i>Statistical analysis for conservation biologists</i> - Gentiane HAESBROECK	Q1	10	10	-	2

Notice : the dissertation will 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. The related placement will be covered by an ad hoc agreement and led by an external placement supervisor. If necessary, students can do their placement in another country but the subject must still relate to subjects associated with continental ecosystems.

Bloc d'aménagement du programme de l'année

Additional ECTS Master in biology of organisms and ecology

Compulsory courses

STAT0076-1	<i>General statistics</i> - Catherine TIMMERMANS	Q1	30	20	-	5
STAT0077-1	<i>Computing analysis and processing of biological data</i> - Patrick MEYER	Q2	25	-	-	2
MICR1715-2	<i>Microbiology</i> - <i>Part 1 : Algology and Mycology</i> - Denis BAURAIN - <i>Part 2 : Bacteriology</i> - Bernard JORIS	Q1				5
			20	10	-	
			20	10	-	
BIOL0216-1	<i>Animal physiology</i> - JeanChristophe PLUMIER, Marc THIRY	Q1	60	30	-	6
BIOL0217-1	<i>Vegetal physiology</i> - Claire PÉRILLEUX	Q2	35	20	-	5
IMMU0521-1	<i>Immunology</i> - Catherine SADZOT	Q2	25	10	-	3
BIOL0003-1	<i>Biology of pluricellular organisms</i> - <i>Animal</i> - MarieFrance VERSALI - <i>Plant Biology</i> - Claire PÉRILLEUX	Q1				5
			15	15	-	
			15	15	-	
BIOC9244-1	<i>Molecular genetics and biology</i> - Jacques DOMMES	Q1	20	10	-	3
BIOL2036-1	<i>Animal Biodiversity Measures and Applications</i> - Sylvie GOBERT, Mathieu POULICEK	Q1	10	15	-	2
BIOL2037-1	<i>Biodiversity : introduction to evolutionary biology and description of vegetation</i> - Emmanuël SÉRUSIAUX - [1d FW]	Q2	30	20	[+]	4
BIOL2038-1	<i>Soil ecology and microbiology</i> - Monique CARNOL - [1d FW]	Q1	25	10	[+]	3
BIOL2039-1	<i>Freshwater Ecology</i> - Véronique GOOSSE, Célia JOAQUIMJUSTO, JeanPierre THOMÉ - [3d FW]	Q2	15	-	[+]	2
STRA0045-1	<i>Training in scientific communication</i> - Monique CARNOL, Patrick DAUBY - [50h Internship]	Q2	-	-	[+]	4
PHIL1106-1	<i>Philosophy and bioethics</i> - <i>Part : Philosophy</i> - Julien PIERON - <i>Part : Bioethics</i> - Florence CAEYMAEX, Jacques DOMMES, Vincent GEENEN	Q2				2
			15	-	-	
			15	-	-	

LANG0082-1 *English 3* (english language) - Clara BRERETON, Véronique DOPPAGNE, Ellen HARRY, ISLV TA 45 - - 4

Optional courses

Depending on the student's educational background and in agreement with the jury, choose courses for a total of 5 credits from :

MICR1716-1	<i>Virology</i> - Catherine SADZOT	Q2	20	10	-	2
BIOC9245-1	<i>Macromolecules chemistry</i> - Moreno GALLEN, Loïc QUINTON	Q2	20	10	-	3
ZOOL0205-1	<i>Ethology and animal psychology</i> - Pascal PONCIN	Q1	30	-	-	3
GEOL0311-1	<i>Geology and elements of paleontology</i> - Emmanuelle JAVAUX - Suppl : Camille FRANÇOIS - [4d FW]	Q1	25	15	[+]	5
BIOL0019-1	<i>Introduction to animal embryology</i> - Vincent GEENEN	Q2	15	-	-	2
DOCU0033-2	<i>Training in the exploitation of documentary resources</i> - Ninfa GRECO	Q1	8	12	-	2
OCEA0222-1	<i>Introduction to marine biology and biological oceanography</i> - Sylvie GOBERT	Q2	-	45	-	2