

## Cycle view of the study programme

|   |   | B1 | Or | Th | Pr | Au  | Cr |
|---|---|----|----|----|----|-----|----|
| <b>Focus compulsory courses (B2 : 30Cr)</b> |   |    |    |    |    |     |    |
| SSTG0047-2                                  | <i>Internship: mountain biodiversity and ecology</i> - Nicolas MAGAIN - [12d FW]  | B2 | Q1 | -  | -  | [+] | 5  |
| GEOG2013-1                                  | <i>Introduction to geomorphology, hydrography and hydrology</i> - Geoffrey HOUBRECHTS - [2d FW]   | B2 | Q1 | 15 | 15 | [+] | 3  |
| SPOL2209-3                                  | <i>Territorial development and the environment: Policies and legal aspects</i> - Sophie HANSON  | B2 | Q1 | 30 | -  | -   | 3  |
| GEOG2024-2                                  | <i>Territorial diagnosis workshops and qualitative methods, Part I</i> - Serge SCHMITZ  | B2 | Q1 | 15 | 25 | -   | 3  |
| GEST3760-1                                  | <i>Project management and immaterial resources</i> - Sabine HAINE   | B2 | Q1 | 12 | -  | -   | 2  |
| BIOL2033-1                                  | <i>Monitoring of the biodiversity and dynamics of citizen</i> - Flavien COLLART, Michaël OVIDIO, Laurane WINANDY - [12h Mon. WS, 3d FW] | B2 | Q1 | 6  | -  | [+] | 4  |
| BIOL2034-1                                  | <i>Soft skills for biodiversity management</i> - Dorothée DENAYER, Nicolas MAGAIN   | B2 | TA | 30 | -  | -   | 3  |
| SSTG2035-1                                  | <i>Day trips on themes relating to conservation and land use</i> - Nicolas MAGAIN - [10d FW]  | B2 | TA | -  | -  | [+] | 4  |
| GEOG0238-5                                  | <i>Geographical Information Systems, Introduction</i> - Roland BILLEN, François JONARD  | B2 | Q1 | 15 | 15 | -   | 3  |

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

## Core curriculum compulsory courses (B1 : 52Cr, B2 : 30Cr)

|            |  |    |    |    |    |     |   |
|------------|--|----|----|----|----|-----|---|
| 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><br>- <i>Marine vertebrates</i> - Eric PARMENTIER<br>- <i>Birds, mammals, biomimicry</i> - Eric PARMENTIER - [1d FW] | B1 | Q1 | 15 | 10 | -   | 4 |
| PALE0209-1 | <i>Paleontology</i><br>- <i>Micropaleontology</i> - Emmanuelle JAVAUX<br>- <i>Macropaleontology</i> - Valentin FISCHER, Cyrille PRESTIANNI       | B1 | Q1 | 10 | -  | -   | 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 (english language)</i> - Célia JOAQUIMJUSTO, Yves MARNEFFE  | 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]                  | B1 | TA | -  | -  | [+] | 8 |

FW]

|            |   |    |    |    |    |     |    |
|------------|---|----|----|----|----|-----|----|
| BIOL0856-1 | <i>Data analysis in ecology, ethology and evolutionary biology</i> - Bruno FREDERICH  | B1 | Q1 | -  | 20 | -   | 3  |
| SMEM0013-1 | <i>Final thesis</i> - COLLÉGIALITÉ<br><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 |
|------------|--|----|----|---|---|-----|---|

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, Mathieu DENOËL - [4d FW] | B1 | Q2 | - | 10 | [+] | 3 |

**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 : 40Cr)**

|            |   |    |    |    |    |     |   |
|------------|---|----|----|----|----|-----|---|
| BIOL0518-4 | <i>Biodiversity and ecology</i><br>- <i>Notions and concepts</i> - Gabriel CASTILLO CABELLO, Bruno FREDERICH, Eric PARMENTIER<br>- <i>Stage d'écologie marine</i> - Eric PARMENTIER - [5d FW] | B0 | TA | 60 | -  | -   | 7 |
| BIOL0868-1 | <i>Biology of multicellular animal organisms</i> - Loïc MICHEL  | B0 | Q1 | 15 | 15 | -   | 3 |
| BIOL0869-1 | <i>Biology of multicellular plant organisms</i> - Claire PÉRILLEUX  | B0 | Q1 | 15 | 15 | -   | 3 |
| BIOL0216-1 | <i>Animal physiology</i> - JeanChristophe PLUMIER, Marc THIRY   | B0 | Q1 | 60 | 30 | -   | 7 |
| BIOL0217-2 | <i>Vegetal physiology, Theory</i> - Claire PÉRILLEUX  | B0 | Q2 | 35 | -  | -   | 3 |
| BIOL2037-1 | <i>Introduction to evolutionary biology</i> - Nicolas MAGAIN - [1d FW]  | B0 | Q2 | 25 | 25 | [+] | 4 |
| BIOL2038-1 | <i>Soil ecology and microbiology</i> - Monique CARNOL - [1d FW]   | B0 | Q1 | 25 | 10 | [+] | 3 |
| BIOL2039-2 | <i>Freshwater ecology, Theory</i> - Anne GOFFART, Véronique GOOSSE,   | B0 | Q2 | 18 | 2  | -   | 2 |

Célia JOAQUIMJUSTO

|            |  |    |    |    |    |   |          |
|------------|--|----|----|----|----|---|----------|
| BIOC9244-1 | <i>Genetics and introduction to molecular ecology</i> - Marc HANIKENNE   | B0 | Q1 | 20 | 10 | - | <b>2</b> |
| STAT0750-1 | <i>Multivariate statistical analysis (software R)</i> - Arnout VAN MESSEM  | B0 | Q2 | 10 | 10 | - | <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> -<br>Patrick MEYER                                     | B0 | Q1 | 25 | -  | - | <b>2</b> |

**Optional courses (B0 : 20Cr)**

In agreement with the Jury, if necessary choose courses from: (B0 : 20Cr)

[...] Courses from the Bachelor in Biology.