

Faculty of Sciences

Bachelor of Science in Biology

Language of instruction: Dutch

Programme version 10

## 1 General Courses

152 credits

Subscribe to course units from the following list. Subject to approval by the faculty.

In period 3 of the first standard learning path you can subscribe to no less than 30 and no more than 60 credits units from the study programmes of another European institute for higher education. Distributed over the first standard learning path as follows: 30 credit units in period 3 (first semester) or 60 credit units in period 3 (first and second semester). Subject to approval by the faculty.

| Nr | Course   | CRDT | Ref | MT1 | Session            | Study |
|----|--|------|-----|-----|--------------------|-------|
| 1  | C003176 Biodiversity of Plants<br><i>Lars Chatrou -- Department of Biology</i>   | 5    |     | 1   | A:1                | 150   |
| 2  | C000602 Biodiversity of Invertebrates<br><i>Tom Moens -- Department of Biology</i>   | 5    |     | 1   | B:1                | 148   |
| 3  | C002457 Ecology<br><i>Luc Lens -- Department of Biology</i>  | 5    |     | 1   | A:2                | 136   |
| 4  | C003177 Cell Biology and Genetics<br><i>Geert De Jaeger -- Department of Plant Biotechnology and Bioinformatics</i>              | 5    |     | 1   | A:1                | 125   |
| 5  | C002601 Physics I<br><i>Bartel Van Waeyenberge -- Department of Solid State Sciences</i>   | 5    |     | 1   | A:1                | 150   |
| 6  | C000677 Physics II<br><i>Bartel Van Waeyenberge -- Department of Solid State Sciences</i>  | 5    |     | 1   | A:2                | 150   |
| 7  | C001522 Chemistry I: Structure of Matter<br><i>Klaartje De Buysser -- Department of Chemistry</i>                                | 5    |     | 1   | A:1                | 142   |
| 8  | C000424 Chemistry II: Changes in Matter<br><i>Isabel Van Driessche -- Department of Chemistry</i>                                | 5    |     | 1   | A:2                | 142   |
| 9  | C000514 Mathematics I<br><i>Koen Thas -- Department of Mathematics: Algebra and Geometry</i>                                     | 5    |     | 1   | A:1                | 150   |
| 10 | C001837 Mathematics II<br><i>Koen Thas -- Department of Mathematics: Algebra and Geometry</i>                                    | 5    |     | 1   | A:2                | 130   |
| 11 | C001165 Organic Chemistry<br><i>Johan Winne -- Department of Organic Chemistry</i>   | 5    |     | 1   | A:2                | 148   |
| 12 | C002346 Geology: System Earth<br><i>Stephen Louwye -- Department of Geology</i>  | 5    |     | 1   | A:2                | 128   |
| 13 | C004409 Vertebrates: Histology and Comparative Anatomy   | 4    |     | 2   | (A:2) <sup>c</sup> | 120   |
| 14 | C003936 Biodiversity of Vertebrates<br><i>Dominique Adriaens -- Department of Biology</i>  | 4    |     | 2   | A:1                | 120   |
| 15 | C000322 Mycology<br><i>Annemieke Verbeken -- Department of Biology</i>   | 5    |     | 2   | A:1                | 144   |
| 16 | C003179 Molecular Genetics I<br><i>Sofie Goormachtig -- Department of Plant Biotechnology and Bioinformatics</i>                 | 5    |     | 2   | A:1                | 140   |
| 17 | C001365 Biochemistry I: Biomolecules<br><i>Bart Devreese -- Department of Biochemistry, Physiology and Microbiology</i>          | 4    |     | 2   | A:1                | 100   |
| 18 | C000577 Biochemistry II: Metabolic Diversity<br><i>Leander Meuris -- Department of Biochemistry, Physiology and Microbiology</i> | 4    |     | 2   | A:2                | 120   |
| 19 | C003080 Programming [en]<br><i>Peter Dawyndt -- Department of Mathematics, Computer Science and Statistics</i>                   | 5    | UKV | 2   | C:1                | 150   |

|    |         |  |   |   |                    |     |
|----|---------|--|---|---|--------------------|-----|
| 20 | C003937 | Plantphysiology<br><i>Bartel Vanholme -- Department of Plant Biotechnology and Bioinformatics</i>                    | 4 | 2 | A:1                | 100 |
| 21 | C002166 | General Microbiology<br><i>Anne Willems -- Department of Biochemistry, Physiology and Microbiology</i>               | 5 | 2 | A:2                | 130 |
| 22 | C003220 | Cell Biology<br><i>Esther Hoste -- Department of Molecular Biology</i>   | 4 | 2 | A:2                | 120 |
| 23 | C002241 | Population Ecology<br><i>Luc Lens -- Department of Biology</i>   | 4 | 2 | A:1                | 110 |
| 24 | C001796 | Biogeography<br><i>Wim Vyverman -- Department of Biology</i>   | 5 | 2 | A:2                | 140 |
| 25 | C003021 | Biological Excursions<br><i>Jan Van Uytvanck -- Department of Biology</i>  | 4 | 2 | A:J                | 120 |
| 26 | C003181 | Arthropoda<br><i>Marleen De Troch -- Department of Biology</i>   | 3 | 2 | A:2                | 90  |
| 27 | C003221 | Community and Ecosystem Ecology<br><i>Wim Vyverman -- Department of Biology</i>                                      | 4 | 3 | A:1                | 100 |
| 28 | C003222 | Evolution [en]<br><i>Olivier De Clerck -- Department of Biology</i>  | 5 | 3 | A:1                | 130 |
| 29 | C003184 | Animal Physiology<br><i>Bart Braeckman -- Department of Biology</i>  | 5 | 3 | A:1                | 150 |
| 30 | C004408 | Introduction to Biostatistics<br><i>Lieven Clement -- Department of Mathematics, Computer Science and Statistics</i> | 5 | 3 | A:1                | 138 |
| 31 | C000534 | Field Training Biological Research [en, nl]<br><i>Bram Vanthournout -- Department of Biology</i>                     | 4 | 3 | A:2                | 120 |
| 32 | C003185 | Nature Conservation and Biodiversity Law<br><i>Maurice Hoffmann -- Department of Biology</i>                         | 5 | 3 | A:2                | 150 |
| 33 | C004419 | Systematics and Diversity of Flowering Plants  | 4 | 3 | (A:2) <sup>f</sup> | 120 |

## 2 Elective Courses

Subscribe to 1 module from the following list. Subject to approval by the faculty.  
Students who have followed the Educational Track, can enter directly into the educational master's programme.

### 2.1 Biology Track

28 credits

| Nr | Course  | CRDT | Ref | MT1 | Session            | Study |
|----|---|------|-----|-----|--------------------|-------|
| 1  | C003182 Molecular Genetics II<br><i>Geert De Jaeger -- Department of Plant Biotechnology and Bioinformatics</i>   | 4    |     | 3   | A:1                | 115   |
| 2  | C003183 Developmental Biology<br><i>Tom Beeckman -- Department of Plant Biotechnology and Bioinformatics</i>      | 5    |     | 3   | A:1                | 125   |
| 3  | C004410 Phycology and Protistology [en]   | 4    |     | 3   | (A:1) <sup>f</sup> | 119   |
| 4  | C003223 Terrestrial Ecology<br><i>Sander Jacobs -- Department of Biology</i>                                      | 3    |     | 3   | A:2                | 90    |
| 5  | C003224 Aquatic Ecology [en]<br><i>Wim Vyverman -- Department of Biology</i>                                      | 3    |     | 3   | A:2                | 90    |
| 6  | C003187 Scientific Methods and Bachelor Dissertation<br><i>Liliana D'Alba Altamirano -- Department of Biology</i> | 9    |     | 3   | A:2                | 240   |

### 2.2 Educational Track

| Nr | Course  | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1  | H002169 Powerful Learning Environments<br><i>Bram De Wever -- Department of Educational Studies</i> | 6    |     | 3   | A:1     | 180   |
| 2  | H002175 Teaching Methodology: Sciences<br><i>Katrien Strubbe -- Department of Chemistry</i>         | 6    |     | 3   | A:J     | 180   |
| 3  | H002170 Reference Internship: Sciences<br><i>Katrien Strubbe -- Department of Chemistry</i>         | 3    |     | 3   | A:J     | 90    |

#### 2.2.1 Elective Courses Biology

Subscribe to 13 credit units from the following list, with  
• no less than 4 and no more than 5 credit units from the courses with reference a,  
• 3 credit units from the courses with reference b.

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--------|------|-----|-----|---------|-------|
|----|--------|------|-----|-----|---------|-------|

|   |         |   |   |   |   |                    |     |
|---|---------|---|---|---|---|--------------------|-----|
| 1 | C003183 | Developmental Biology<br><i>Tom Beeckman -- Department of Plant Biotechnology and Bioinformatics</i>      | 5 | a | 3 | A:1                | 125 |
| 2 | C004410 | Phycology and Protistology [en]   | 4 | a | 3 | (A:1) <sup>f</sup> | 119 |
| 3 | C003223 | Terrestrial Ecology<br><i>Sander Jacobs -- Department of Biology</i>                                      | 3 | b | 3 | A:2                | 90  |
| 4 | C003224 | Aquatic Ecology [en]<br><i>Wim Vyverman -- Department of Biology</i>                                      | 3 | b | 3 | A:2                | 90  |
| 5 | C003187 | Scientific Methods and Bachelor Dissertation<br><i>Liliana D'Alba Altamirano -- Department of Biology</i> | 6 |   | 3 | B:2                | 180 |

#### Teaching

When a course is not taught (solely) in the programme's language of instruction, the effectively used languages are indicated in square brackets following the course name, using the following ISO codes:

|               |             |             |               |                |                      |             |
|---------------|-------------|-------------|---------------|----------------|----------------------|-------------|
| bg: Bulgarian | de: German  | es: Spanish | ja: Japanese  | pl: Polish     | sh: Croatian/Serbian | zh: Chinese |
| cs: Czech     | el: Greek   | fr: French  | nl: Dutch     | pt: Portuguese | sl: Slovene          |             |
| da: Danish    | en: English | it: Italian | no: Norwegian | ru: Russian    | sv: Swedish          |             |

#### Semester

Semesters are indicated by their number (1 or 2); semester 3 represents the summer period and J indicates a course spanning semesters 1 and 2. When a capital letter precedes a semester number, the course has multiple offerings. The letter indicates the offering concerned.

When a semester is shown in brackets, the course is not offered this year in the specific offering.

The offering frequency and first year of offering are indicated by the following codes:

|                 |                                 |                                 |                                 |
|-----------------|---------------------------------|---------------------------------|---------------------------------|
| a: bi-annually  | c: annually, from 2023-2024     | f: annually, from 2024-2025     | i: annually, from 2025-2026     |
| b: tri-annually | d: bi-annually, from 2023-2024  | g: bi-annually, from 2024-2025  | j: bi-annually, from 2025-2026  |
|                 | e: tri-annually, from 2023-2024 | h: tri-annually, from 2024-2025 | k: tri-annually, from 2025-2026 |