

Faculty of Sciences

Bachelor of Science in Geology

Language of instruction: Dutch

Programme version 9

## 1 General Courses 165 credits

| Nr | Course  | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1  | C001522 Chemistry I: Structure of Matter<br><i>Klaartje De Buysser -- Department of Chemistry</i>                                       | 5    |     | 1   | A:1     | 142   |
| 2  | C000246 Physics 1<br><i>Matthieu Boone -- Department of Physics and Astronomy</i>   | 5    |     | 1   | A:1     | 138   |
| 3  | C000514 Mathematics I<br><i>Koen Thas -- Department of Mathematics: Algebra and Geometry</i>  | 5    |     | 1   | A:1     | 150   |
| 4  | C000705 Biosphere: Zoology<br><i>Wim Bert -- Department of Biology</i>  | 5    |     | 1   | A:1     | 150   |
| 5  | C000138 Introduction to Mineralogy<br><i>Stijn Dewaele -- Department of Geology</i>   | 5    |     | 1   | A:1     | 150   |
| 6  | C000087 System Earth: Geology<br><i>David Van Rooij -- Department of Geology</i>  | 5    |     | 1   | A:1     | 136   |
| 7  | C000424 Chemistry II: Changes in Matter<br><i>Isabel Van Driessche -- Department of Chemistry</i>                                       | 5    |     | 1   | A:2     | 142   |
| 8  | C000247 Physics 2<br><i>Natalie Jachowicz -- Department of Physics and Astronomy</i>  | 5    |     | 1   | A:2     | 125   |
| 9  | C001837 Mathematics II<br><i>Koen Thas -- Department of Mathematics: Algebra and Geometry</i>   | 5    |     | 1   | A:2     | 150   |
| 10 | C002459 Biosphere: Botany<br><i>Annemieke Verbeke -- Department of Biology</i>  | 5    |     | 1   | A:2     | 150   |
| 11 | C000536 Introduction to Petrology<br><i>Johan De Grave -- Department of Geology</i>   | 5    |     | 1   | A:2     | 150   |
| 12 | C000884 Earth System: Introduction to Geography<br><i>Amaury Frankl -- Department of Geography</i>                                      | 5    |     | 1   | A:2     | 136   |
| 13 | C000608 Structural Chemistry<br><i>Richard Hoogenboom -- Department of Organic Chemistry</i>  | 3    |     | 2   | A:1     | 90    |
| 14 | C002124 Mathematics 3 and Geostatistics [en, nl]<br><i>Lieven Clement -- Department of Mathematics, Computer Science and Statistics</i> | 5    |     | 2   | A:1     | 150   |
| 15 | C003342 Sedimentology<br><i>Maarten Van Daele -- Department of Geology</i>  | 5    |     | 2   | A:1     | 150   |
| 16 | C003341 Stratigraphy<br><i>Thijs Vandenbroucke -- Department of Geology</i>   | 5    |     | 2   | A:1     | 150   |
| 17 | C001505 Optical Mineralogy & Petrography<br><i>Veerle Cnudde -- Department of Geology</i>   | 5    |     | 2   | A:1     | 150   |
| 18 | C003957 Paleontology of Plants<br><i>Stephen Louwye -- Department of Geology</i>  | 5    |     | 2   | A:1     | 150   |
| 19 | C002138 Analytical Chemistry<br><i>Mieke Adriaens -- Department of Chemistry</i>  | 7    |     | 2   | A:2     | 200   |
| 20 | C000248 Physics 3<br><i>Stefaan Cottenier -- Department of Electromechanical, Systems and Metal Engineering</i>                         | 5    |     | 2   | A:2     | 150   |
| 21 | C001668 Introduction to Geographical Information Systems and Surveying Engineering  | 5    |     | 2   | A:2     | 150   |

|    |         |  |   |     |     |     |
|----|---------|--|---|-----|-----|-----|
| 22 | C000887 | Geology of Belgium<br><i>Marc De Batist -- Department of Geology</i>                                   | 5 | 2   | A:2 | 150 |
| 23 | C000120 | Structural Geology with Exercices on Geological Maps<br><i>Marc De Batist -- Department of Geology</i> | 5 | 2   | A:2 | 150 |
| 24 | C003388 | Geological Mapping A<br><i>Marc De Batist -- Department of Geology</i>                                 | 5 | 2   | A:2 | 150 |
| 25 | C003962 | Palaeontology of Animals<br><i>Thijs Vandenbroucke -- Department of Geology</i>                        | 5 | 3   | A:1 | 150 |
| 26 | C003080 | Programming<br><i>Peter Dawyndt -- Department of Mathematics, Computer Science and Statistics</i>      | 5 | UKV | A:1 | 150 |
| 27 | C001705 | Hydrogeology [en]<br><i>Thomas Hermans -- Department of Geology</i>                                    | 4 | 3   | A:1 | 105 |
| 28 | C003961 | Petrology of Crystalline Rocks<br><i>Stijn Dewaele -- Department of Geology</i>                        | 5 | 3   | A:1 | 150 |
| 29 | C002463 | Geophysics<br><i>Marc De Batist -- Department of Geology</i>   | 5 | 3   | A:1 | 150 |
| 30 | C004252 | Geology and Sustainability [en, nl]<br><i>Stijn Dewaele -- Department of Geology</i>                   | 4 | 3   | A:2 | 120 |
| 31 | C001159 | Remote Sensing<br><i>Rudi Goossens -- Department of Geography</i>                                      | 4 | 3   | A:2 | 120 |
| 32 | C003960 | Quaternary Geology<br><i>Maarten Van Daele -- Department of Geology</i>                                | 4 | 3   | A:2 | 120 |
| 33 | C003959 | Isotope Geology<br><i>Johan De Grave -- Department of Geology</i>                                      | 5 | 3   | A:2 | 150 |
| 34 | C000724 | Marine Geology<br><i>David Van Rooij -- Department of Geology</i>                                      | 4 | 3   | A:2 | 105 |

## 2 Elective Courses

15 credits

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 Geology Track

15 credits

Subscribe to 6 credit units from 1 module from the following list.

| Nr | Course  | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1  | C003389 Geological Mapping B<br><i>Stijn Dewaele -- Department of Geology</i>         | 5    |     | 3   | A:2     | 150   |
| 2  | C003958 Sedimentary Geochemistry<br><i>Maarten Van Daele -- Department of Geology</i> | 4    |     | 3   | A:1     | 120   |

#### 2.1.1 Work Experience

| Nr | Course   | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1  | C004253 Bachelor Project<br><i>Tom Bultreys -- Department of Geology</i> | 6    |     | 3   | A:2     | 150   |

#### 2.1.2 Elective Courses UGent and other Universities

Subscribe to 6 credit units from the study programmes of UGent including the [Ghent University elective courses](#), or from the study programmes offered by the institutions of higher education of the Flemish Community, or (online) courses offered by [Erasmus+ partner universities](#); distributed over the first standard learning path as follows: 6 credit units in year 3.

### 2.2 Educational Track

15 credits

| 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    |

## 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 2024-2025     | f: annually, from 2025-2026     | i: annually, from 2026-2027     |
| b: tri-annually | d: bi-annually, from 2024-2025  | g: bi-annually, from 2025-2026  | j: bi-annually, from 2026-2027  |
|                 | e: tri-annually, from 2024-2025 | h: tri-annually, from 2025-2026 | k: tri-annually, from 2026-2027 |