

Programme jointly offered by Ghent University, Vrije Universiteit Brussel

Master of Science in Sustainable Land Management -- Land and Groundwater Management

Language of instruction: English

Programme version 2

1 General Courses 65 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | I002657 Soil Physics <i>Wim Cornelis -- Department of Environment</i> | 5 | | 1 | A:1 | 150 |
| 2 | I002756 Applied Statistics <i>Aisling Daly -- Department of Data Analysis and Mathematical Modelling</i> | 5 | | 1 | A:1 | 150 |
| 3 | I002774 Land Information Systems <i>Fieke Vancoillie -- Department of Environment</i> | 5 | | 1 | A:1 | 150 |
| 4 | C002615 Environmental Impact Assessment <i>Kristine Walraevens -- Department of Geology</i> | 6 | | 1 | A:1 | 150 |
| 5 | C001705 Hydrogeology <i>Thomas Hermans -- Department of Geology</i> | 4 | | 1 | A:1 | 105 |
| 6 | C003068 Hydrology and Hydrogeomorphology <i>Amaury Frankl -- Department of Geography</i> | 5 | | 1 | A:1 | 150 |
| 7 | C004257 Remote Sensing <i>Tim Van de Voorde -- Department of Geography</i> | 5 | | 1 | A:2 | 135 |
| 8 | K001298 Sustainable Development <i>Bernard Mazijn -- Department of Conflict and Development Studies</i> | 5 | | 1 | A:2 | 150 |
| 9 | C003320 Climate Change <i>Dirk Verschuren -- Department of Biology</i> | 4 | | 1 | A:2 | 120 |
| 10 | E076460 Dare to Venture <i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i> | 4 | | 1 | A:2 | 120 |
| 11 | C004418 Scientific Communication on Sustainable Land Management <i>Kristine Walraevens -- Department of Geology</i> | 4 | | 1 | A:2 | 120 |
| 12 | C004259 Applied Geophysics <i>Kristine Walraevens -- Department of Geology</i> | 5 | | 1 | A:2 | 135 |
| 13 | C002660 Introduction to Geotechnics <i>Herman Peiffer -- Department of Civil Engineering</i> | 3 | | 1 | A:2 | 90 |
| 14 | C004260 Integrated Project <i>Margaret Chen -- Vrije Universiteit Brussel</i> | 5 | | 2 | A:2 | 138 |

2 Courses Related to the Main Subject 45 credits

2.1 Land and Groundwater Management (UGent) 15 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | C002656 Groundwater Modelling <i>Thomas Hermans -- Department of Geology</i> | 5 | | 2 | B:1 | 125 |
| 2 | C002655 Groundwater Chemistry <i>Kristine Walraevens -- Department of Geology</i> | 5 | | 2 | B:1 | 125 |
| 3 | I002708 Soil Water Management <i>Wim Cornelis -- Department of Environment</i> | 5 | | 2 | A:2 | 150 |

2.2 Master's Dissertation 30 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1 | C004264 Master's Dissertation <i>N. N.</i> | 30 | | 2 | A:J | 900 |

3 Elective Courses

10 credits

Subscribe to 10 credit units from no less than 1 and no more than 2 modules from the following list. Subject to approval by the faculty.

3.1 Elective Course List

Subscribe to no more than 10 credit units from the following list.

Courses 2 to 9 are offered at UGent, 10 to 16 at VUB.

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|--------------------|-------|
| 1 | C004265 Internship <i>Kristine Walraevens -- Department of Geology</i> | 5 | | 2 | A:J | 135 |
| 2 | C004416 Clay Mineralogy <i>Stijn Dewaele -- Department of Geology</i> | 4 | | 2 | A:2 | 100 |
| 3 | I002454 Geostatistics <i>Ellen Van De Vijver -- Department of Environment</i> | 5 | | 2 | A:2 | 150 |
| 4 | I002715 Irrigation and Drainage <i>Wim Cornelis -- Department of Environment</i> | 5 | | 2 | A:1 | 150 |
| 5 | I002699 Land Evaluation <i>Ann Verdoodt -- Department of Environment</i> | 5 | | 2 | A:2 | 150 |
| 6 | C001032 Landscape Ecology <i>Veerle Van Eetvelde -- Department of Geography</i> | 5 | | 2 | A:2 | 150 |
| 7 | C003994 Mineral Resources, Economics and the Environment <i>Stijn Dewaele -- Department of Geology</i> | 6 | | 2 | A:1 | 150 |
| 8 | I002712 Soil Degradation <i>Ann Verdoodt -- Department of Environment</i> | 5 | | 2 | A:2 | 150 |
| 9 | I002664 Soil Erosion Control: Principles and Practice <i>Ann Verdoodt -- Department of Environment</i> | 4 | | 2 | A:1 | 120 |
| 10 | C004267 Water and Land Interaction and Transformation <i>Margaret Chen -- Vrije Universiteit Brussel</i> | 5 | | 2 | A:1 | 135 |
| 11 | C004268 Applied Geomorphology <i>Matthieu Kervyn de Meerendre -- Vrije Universiteit Brussel</i> | 5 | | 2 | (A:2) ^d | 135 |
| 12 | C004269 Decision Support Systems for Sustainability <i>Cathy Macharis -- Vrije Universiteit Brussel</i> | 6 | | 2 | A:2 | 152 |
| 13 | C004270 Natural Hazards <i>Matthieu Kervyn de Meerendre -- Vrije Universiteit Brussel</i> | 3 | | 2 | A:2 | 90 |
| 14 | C004271 Natural Risk Management <i>Matthieu Kervyn de Meerendre -- Vrije Universiteit Brussel</i> | 3 | | 2 | A:2 | 90 |
| 15 | C004272 Water Quality Assessment <i>Marc Elskens -- Vrije Universiteit Brussel</i> | 4 | | 2 | A:2 | 100 |
| 16 | C004273 Land-Climate Dynamics | 5 | | 2 | A:1 | 135 |

3.2 Elective Courses of a University of the Flemish Community

Subscribe to no more than 10 credit units from courses of the other main subject or courses from other study programmes at universities in the Flemish Community upon approval by the curriculum committee.

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 |