

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 5

## 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	C004601 Introduction to Environmental Programming and Geostatistics <i>Vrije Universiteit Brussel</i>	5		1	A:1	150
3	I002774 Land Information Systems <i>Frieke Vancoillie -- Department of Environment</i>	5		1	A:1	150
4	C002615 Environmental Impact Assessment <i>Marieke Paepen -- Department of Geology</i>	6		1	A:1	150
5	C004600 Remote Sensing <i>N. N.</i>	6		1	A:1	180
6	C004465 Engineering Applications in Hydrology <i>Herman Peiffer -- Department of Civil Engineering</i>	5		1	A:2	150
7	C004583 Futureproof Earth: Groundwater <i>Thomas Hermans -- Department of Geology</i>	5		1	A:2	150
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>	3		1	B:2	90
10	C004621 Introduction to Geotechnics, Dredging and Offshore Constuctions	3		1	A:2	90
11	I002708 Soil Water Management <i>Wim Cornelis -- Department of Environment</i>	5		1	A:2	150
12	C004599 Scientific Communication on Sustainable Land Management <i>Marieke Paepen -- Department of Geology</i>	7		1	A:J	210
13	C004260 Integrated Project <i>Margaret Chen -- Vrije Universiteit Brussel</i>	5		2	A:J	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>Marieke Paepen -- Department of Geology</i>	5		2	B:1	125
3	C004259 Applied Geophysics <i>Thomas Hermans -- Department of Geology</i>	5		2	A:1	135

### 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

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 curriculum committee.

### 3.1 Elective Course List

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

Courses 2 to 12 are offered at UGent, 13 to 20 at VUB.

\*The course 'Groundwater Modelling' is only open for students Urban Land Enigneering (VUB).

\*The course 'Land-Climate Dynamics' is only open for students Land and Groundwater Management (UGent).

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004604 Internship <i>Thomas Hermans -- Department of Geology</i>	10		2	A:J	300
2	C004539 Fluvial Processes and Management <i>Amaury Frankl -- Department of Geography</i>	5		2	A:1	150
3	I002454 Geostatistics	5		2		150
4	C004255 Geothermal Energy <i>Thomas Hermans -- Department of Geology</i>	3		2	A:2	90
5	A005569 Global Minds <i>Ines Keygnaert -- Department of Public Health and Primary Care</i>	5	UKV	2	A:2	150
6	I002699 Land Evaluation <i>Ann Verdoodt -- Department of Environment</i>	5		2	A:2	150
7	C001032 Landscape Ecology <i>Veerle Van Eetvelde -- Department of Geography</i>	5		2	A:2	150
8	C003994 Mineral Resources, Economics and the Environment <i>Stijn Dewaele -- Department of Geology</i>	6		2	A:1	150
9	I002712 Soil Degradation <i>Ann Verdoodt -- Department of Environment</i>	5		2	A:2	150
10	I002664 Soil Erosion Control: Principles and Practice <i>Ann Verdoodt -- Department of Environment</i>	4		2	A:1	120
11	I002718 Economics and Management of Natural Resources <i>Stijn Speelman -- Department of Agricultural Economics</i>	4		2	A:2	120
12	F001022 Dare to Venture <i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i>	4		2	A:2	120
13	C004472 Civil Engineering Hydraulics <i>Vrije Universiteit Brussel, Gerlinde Lefever</i>	4		2	A:1	110
14	C004269 Decision Support Systems for Sustainability <i>Vrije Universiteit Brussel, Cathy Macharis</i>	6		2	A:2	152
15	C004473 Groundwater Modelling <i>Vrije Universiteit Brussel, Marijke Huysmans</i>	5	*	2	A:1	125
16	C004614 Land-Climate Dynamics <i>Vrije Universiteit Brussel</i>	5	*	2	A:1	125
17	C004271 Natural Risk Management <i>Vrije Universiteit Brussel, Matthieu Kervyn de Meerendre</i>	3		2	A:2	90
18	C004267 Water and Land Interaction and Transformation <i>Vrije Universiteit Brussel, Margaret Chen</i>	5		2	A:1	135
19	C004272 Water Quality Assessment <i>Vrije Universiteit Brussel, Marc Elskens</i>	4		2	A:2	100
20	C004615 Greening the City <i>Vrije Universiteit Brussel</i>	6		2	A:2	160

### 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 2026-2027	f: annually, from 2027-2028	i: annually, from 2028-2029
b: tri-annually	d: bi-annually, from 2026-2027	g: bi-annually, from 2027-2028	j: bi-annually, from 2028-2029
	e: tri-annually, from 2026-2027	h: tri-annually, from 2027-2028	k: tri-annually, from 2028-2029