Study Programme

Academic year 2026-2027

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 4

1 General Courses — 65 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I002657	Soil Physics	5	1		A:1	150
		Wim Cornelis -- Department of Environment					
2	I002756	Applied Statistics	5	1		A:1	150
		Louis Coussement -- Department of Data Analysis and Mathematical Modelling					
3	I002774	Land Information Systems	5	1		A:1	150
		Frieke Vancoillie -- Department of Environment					
4	C002615	Environmental Impact Assessment	6	1		A:1	150
		Marieke Paepen -- Department of Geology					
5	C001705	Hydrogeology	4	1		A:2	105
		Thomas Hermans -- Department of Geology					
6	C004259	Applied Geophysics	5	1		A:1	135
		Thomas Hermans -- Department of Geology					
7	C004465	Engineering Applications in Hydrology	5	1		A:2	150
		Herman Peiffer -- Department of Civil Engineering					
8	C004257	Remote Sensing	5	1		A:2	135
		Tim Van de Voorde -- Department of Geography					
9	K001298	Sustainable Development	5	1		A:2	150
		Bernard Mazijn -- Department of Conflict and Development Studies					
10	C003320	Climate Change	4	1		A:2	120
		Dirk Verschuren -- Department of Biology					
11	E076460	Dare to Venture	4	1			120
12	C004418	Scientific Communication on Sustainable Land Management	4	1		A:2	120
		Marieke Paepen -- Department of Geology					
13	C002660	Introduction to Geotechnics	3	1		A:2	90
		Herman Peiffer -- Department of Civil Engineering					
14	C004260	Integrated Project	5	2		A:J	138
		Elga Salvadore -- Vrije Universiteit Brussel					

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	5	2		B:1	125
		Thomas Hermans -- Department of Geology					
2	C002655	Groundwater Chemistry	5	2		B:1	125
		Marieke Paepen -- Department of Geology					
3	I002708	Soil Water Management	5	2		A:2	150
		Wim Cornelis -- Department of Environment					

2.2 Master's Dissertation — 30 credits

Nr	Course		CRDT	Ref	MT1	Session	Study

Nr		Course	CRDT	Ref	MT1	Session	Study
1	C004264	Master's Dissertation	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 12 are offered at UGent, 13 to 21 at VUB.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004265	Internship *Thomas Hermans -- Department of Geology*	5		2	A:J	135
2	C004416	Clay Mineralogy *Stijn Dewaele -- Department of Geology*	4		2		100
3	C004539	Fluvial Processes and Management *Amaury Frankl -- Department of Geography*	5		2	A:1	150
4	I002454	Geostatistics	5		2		150
5	C004255	Geothermal Energy *Thomas Hermans -- Department of Geology*	3		2	A:2	90
6	A005569	Global Minds *Ines Keygnaert -- Department of Public Health and Primary Care*	5	UKV	2	A:2	150
7	C004415	Hydrogeophysics Project *Thomas Hermans -- Department of Geology*	6		2	A:1	150
8	I002699	Land Evaluation *Ann Verdoodt -- Department of Environment*	5		2	A:2	150
9	C001032	Landscape Ecology *Veerle Van Eetvelde -- Department of Geography*	5		2	A:2	150
10	C003994	Mineral Resources, Economics and the Environment *Stijn Dewaele -- Department of Geology*	6		2	A:1	150
11	I002712	Soil Degradation *Ann Verdoodt -- Department of Environment*	5		2	A:2	150
12	I002664	Soil Erosion Control: Principles and Practice *Ann Verdoodt -- Department of Environment*	4		2	A:1	120
13	C004268	Applied Geomorphology *Matthieu Kervyn de Meerendre -- Vrije Universiteit Brussel*	5		2	(A:2)[d]	135
14	C004472	Civil Engineering Hydraulics *Gerlinde Lefever -- Vrije Universiteit Brussel*	4		2	A:1	110
15	C004269	Decision Support Systems for Sustainability *Cathy Macharis -- Vrije Universiteit Brussel*	6		2	A:2	152
16	C004471	Environmental Programming *Elga Salvadore -- Vrije Universiteit Brussel*	4		2	A:1	110
17	C004473	Groundwater Modelling *Marijke Huysmans -- Vrije Universiteit Brussel*	5		2	A:1	125
18	C004273	Land-Climate Dynamics *Wim Thiery -- Vrije Universiteit Brussel*	5		2	A:1	135
19	C004271	Natural Risk Management *Matthieu Kervyn de Meerendre -- Vrije Universiteit Brussel*	3		2	A:2	90
20	C004267	Water and Land Interaction and Transformation *Margaret Chen -- Vrije Universiteit Brussel*	5		2	A:1	135
21	C004272	Water Quality Assessment	4		2		100

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 cours name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Kroatian/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 in 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 2027-2028	f: annually, from 2028-2029	i: annually, from 2029-2030
b: tri-annually	d: bi-annually, from 2027-2028	g: bi-annually, from 2028-2029	j: bi-annually, from 2029-2030
	e: tri-annually, from 2027-2028	h: tri-annually, from 2028-2029	k: tri-annually, from 2029-2030