

Programme jointly offered by Ghent University, Vrije Universiteit Brussel  
Master of Science in Sustainable Land Management -- Urban Land Engineering

Language of instruction: English

Programme version 4

## 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>Louis Coussement -- 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>Marieke Paepen -- Department of Geology</i>	6		1	A:1	150
5	C001705 Hydrogeology <i>Thomas Hermans -- Department of Geology</i>	4		1	A:2	105
6	C004259 Applied Geophysics <i>Thomas Hermans -- Department of Geology</i>	5		1	A:1	135
7	C004465 Engineering Applications in Hydrology <i>Herman Peiffer -- Department of Civil Engineering</i>	5		1	A:2	150
8	C004257 Remote Sensing <i>Tim Van de Voorde -- Department of Geography</i>	5		1	A:2	135
9	K001298 Sustainable Development <i>Bernard Mazijn -- Department of Conflict and Development Studies</i>	5		1	A:2	150
10	C003320 Climate Change <i>Dirk Verschuren -- Department of Biology</i>	4		1	A:2	120
11	C004272 Water Quality Assessment <i>Vrije Universiteit Brussel, Marc Elskens</i>	4		1	A:2	100
12	C004418 Scientific Communication on Sustainable Land Management <i>Marieke Paepen -- Department of Geology</i>	4		1	A:2	120
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:J	138

## 2 Courses Related to the Main Subject 45 credits

### 2.1 Urban Land Engineering (VUB) 15 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004261 Urban Hydrology and Hydraulics <i>Vrije Universiteit Brussel, Nahad Rezazadeh Helmi</i>	5		2	A:1	125
2	C004266 Surface Water Modelling <i>Vrije Universiteit Brussel, Ann van Griensven</i>	5		2	A:1	125
3	C004405 Water Resources Management II: EU and International Framework <i>Vrije Universiteit Brussel, Nora Van Cauwenbergh</i>	5		2	A:1	125

### 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 12 are offered at UGent, 13 to 21 at VUB.

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