

Faculty of Sciences

Master of Science in Geography and Geomatics

Language of instruction: Dutch

Programme version 3

1 General Courses 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004170 Research Design [en] Nico Van de Weghe -- Department of Geography	5		1	A:J	150
2	C004462 Physical Environment and Sustainable Development Sil Lanckriet	5		1	A:2	150
3	C004171 GIS: Applications [en, nl] Nico Van de Weghe -- Department of Geography	7		1	B:1	210
4	C004172 Remote Sensing: Applications Tim Van de Voorde -- Department of Geography	5		1	A:2	150
5	C004173 Integrated International Projectwork [nl, en] Veerle Van Eetvelde -- Department of Geography	8		1	A:J	240

2 Minors 30 credits

Subscribe to 30 credit units from 1 minor from the following list. Subject to approval by the faculty.
To obtain the professional title of sworn surveyor, the minor Surveying and the major Topography & Hydrography must be chosen.

2.1 Minor Research & Development 30 credits

Subscribe to 25 credit units from no less than 1 and no more than 2 modules from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004182 Internship 1 Frank Witlox -- Department of Geography	5			A:J	150

2.1.1 Elective Courses

Subscribe to no more than 13 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004190 Internship 2 Frank Witlox -- Department of Geography	5			A:J	150
2	C004463 International Course in Geography and/or Geomatics [en] Haosheng Huang -- Department of Geography	5			A:J	150
3	C004464 International Research Project in Geography and/or Geomatics [en] Haosheng Huang -- Department of Geography	5			A:J	150
4	C004183 Practical Skills in Academic Geo-education Nico Van de Weghe -- Department of Geography	3			A:J	90
5	C004468 Survey Design and Data Collection Methods [en] Giovanni Circella -- Department of Geography	5			A:2	150
6	A005569 Global Minds [en] Amaury Frankl -- Department of Geography	5	UKV		A:2	150
7	B001514 Transport Economics and Policy [en] Frank Witlox -- Department of Geography	3			A:1	90

2.1.2 Elective Courses UGent and other Universities

Subscribe to no more than 25 credit units from the study programmes of UGent including courses from the other majors Geography & Geomatics, the [Ghent University elective courses](#) or from other universities of the Flemish Community or (online) courses from [Erasmus+ partner universities](#).

2.2 Minor Environment & Planning 30 credits

Subscribe to 20 credit units from no less than 1 and no more than 2 modules from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004182 Internship 1 Frank Witlox -- Department of Geography	5			A:J	150
2	C004184 Project Landscape Science and Spatial Planning Veerle Van Eetvelde -- Department of Geography	5			A:1	150

2.2.1 Elective Courses

Subscribe to no less than 10 and no more than 20 credit units from the following list, with 10 credit units with reference a.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004190 Internship 2 Frank Witlox -- Department of Geography	5			A:J	150
2	C004463 International Course in Geography and/or Geomatics [en] Haosheng Huang -- Department of Geography	5			A:J	150
3	C004464 International Research Project in Geography and/or Geomatics [en] Haosheng Huang -- Department of Geography	5			A:J	150
4	C004468 Survey Design and Data Collection Methods [en] Giovanni Circella -- Department of Geography	5			A:2	150
5	A005569 Global Minds [en] Amaury Frankl -- Department of Geography	5	UKV		A:2	150
6	E084910 Juridical Aspects Tom De Waele -- Department of European, Public and International Law	5	a		A:1	150
7	E085723 Integrating Spatial Policy and Project Management Ann Pisman -- Department of Civil Engineering	6	a		A:2	180
8	E086611 Mobility, Spatial Planning and Urban Design of Infrastructure Filip Boelaert -- Department of Civil Engineering	3	a		A:1	90
9	E084970 Integrated Approach to Water Management and Environmental Policy Renaat De Sutter -- Department of Civil Engineering	3	a		A:2	90
10	I002691 Nature Conservation Lander Baeten -- Department of Environment	4	a		A:1	120
11	I002697 Urban Green Management Jan Mertens -- Department of Environment	4	a		A:1	120
12	E076431 Introduction to Entrepreneurship [en] Petra Andries -- Department of Marketing, Innovation and Organisation	3			A:1	90
13	E076460 Dare to Venture [en] Johan Verrue -- Department of Marketing, Innovation and Organisation	4			A:2	120
14	F000859 Corporate Social Responsibility Saskia Crucke -- Department of Marketing, Innovation and Organisation	3			A:2	90
15	B001514 Transport Economics and Policy [en] Frank Witlox -- Department of Geography	3			A:1	90

2.2.2 Elective Courses UGent and other Universities

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2.3 Minor Surveying

30 credits

Subscribe to 8 credit units from no less than 1 and no more than 2 modules from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004182 Internship 1 Frank Witlox -- Department of Geography	5			A:J	150
2	C004553 Environmental Law Geert Van Hoorick -- Department of European, Public and International Law	3			A:1	90
3	C003072 Legal Aspects of Real Estate Joke Baeck -- Department of Interdisciplinary Study of Law, Private Law and Business Law	5			A:1	150
4	C004185 Surveying Aspects of Real Estate Expertise Alain De Wulf -- Department of Geography	4			A:2	120
5	C004186 Surveying Project Alain De Wulf -- Department of Geography	5			A:1	150

2.3.1 Elective Courses

Subscribe to no more than 8 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004190 Internship 2 Frank Witlox -- Department of Geography	5			A:J	150
2	C004463 International Course in Geography and/or Geomatics [en] Haosheng Huang -- Department of Geography	5			A:J	150
3	C004464 International Research Project in Geography and/or Geomatics [en] Haosheng Huang -- Department of Geography	5			A:J	150
4	E076621 Principles of Law and Construction Law Jelle Laverge -- Department of Architecture and Urban Planning	3			A:1	90
5	E084910 Juridical Aspects Tom De Waele -- Department of European, Public and International Law	5			A:1	150
6	E076431 Introduction to Entrepreneurship [en] Petra Andries -- Department of Marketing, Innovation and Organisation	3			A:1	90
7	E076460 Dare to Venture [en] Johan Verrue -- Department of Marketing, Innovation and Organisation	4			A:2	120
8	F000859 Corporate Social Responsibility Saskia Crucke -- Department of Marketing, Innovation and Organisation	3			A:2	90

2.3.2 Elective Courses UGent and other Universities

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3 Majors 30 credits

Subscribe to 30 credit units from 2 modules from the following list. Subject to approval by the faculty.
To obtain the professional title of sworn surveyor, the minor Surveying and the major Topography & Hydrography must be chosen.

3.1 Major Physical Geography 15 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004469 Climate Change and land-atmosphere Interactions [en, nl] Kwinten Van Weverberg -- Department of Geography	5			A:1	150
2	C004539 Fluvial Processes and Management [en] Amaury Frankl -- Department of Geography	5			A:1	150
3	C004467 Regional Climate Modelling [en] Kwinten Van Weverberg -- Department of Geography	5			A:2	150

3.2 Major Landscape Science 15 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003145 Landscape Management and Design Veerle Van Eetvelde -- Department of Geography	5			A:1	150
2	C001032 Landscape Ecology [en] Veerle Van Eetvelde -- Department of Geography	5			A:2	150
3	C003539 Landscape Genesis Veerle Van Eetvelde -- Department of Geography	5			A:1	150

3.3 Major Urban Geography 15 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003532 Urbanization in Global Perspective [en] Ben Derudder -- Department of Geography	5			A:1	150
2	C003534 Urban Mobility and Logistics [en] Giovanni Circella -- Department of Geography	5			A:1	150
3	E084581 Sustainable Cities Michiel Dehaene -- Department of Architecture and Urban Planning	5		2	B:J	150

3.4 Major Cartography & Geographical Information Systems (GIS) 15 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004177 Spatiotemporal Analysis and Modelling [en] Nico Van de Weghe -- Department of Geography	5			A:1	150
2	C004178 Geographical Information Architecture [nl, en] Haosheng Huang -- Department of Geography	5			A:2	150

3	C004538	Geospatial Artificial Intelligence [en] Nico Van de Weghe -- Department of Geography	5			A:2	150
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3.5 Major Topography & Hydrography 15 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004180 3D Acquisition and Modelling Alain De Wulf -- Department of Geography	5			A:1	150
2	C004189 Hydrographic Surveying [en] Alain De Wulf -- Department of Geography	5		2	A:2	150
3	C004181 Topometry Alain De Wulf -- Department of Geography	5			A:1	150

4 Master's Dissertation 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004174 Master's Dissertation [en, nl] N. N.	30		2	A:J	900

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 2025-2026	f: annually, from 2026-2027	i: annually, from 2027-2028
b: tri-annually	d: bi-annually, from 2025-2026	g: bi-annually, from 2026-2027	j: bi-annually, from 2027-2028
	e: tri-annually, from 2025-2026	h: tri-annually, from 2026-2027	k: tri-annually, from 2027-2028