

Faculty of Sciences, Faculty of Psychology and Educational Sciences

Master of Science in Teaching in Science and Technology -- Geography and Geomatics

Language of instruction: Dutch

Programme version 4

1 Domain Component 60 credits

For courses without indication of the standard learning path, the student can choose whether to take the course in the first or second year, depending on the rest of his/her curriculum.

1.1 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

1.2 Majors 30 credits

Subscribe to 30 credit units from 2 majors from the following list. Subject to approval by the faculty.

1.2.1 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

1.2.2 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

1.2.3 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

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

Nr	Course	CRDT	Ref	MT1	Session	Study
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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

1.2.5 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

2 Teaching Component

36 credits

For courses without indication of the standard learning path, the student can choose whether to take the course in the first or second year, depending on the rest of his/her curriculum. Students must complete the corresponding teaching methodology course before entering into an internship, or at least take the teaching methodology course simultaneously.

2.1 Programme Pathway Theoretical Education

12 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002197 The Teacher within School and Society Melissa Tuytens -- Department of Educational Studies	4			A:1	120
2	H002196 Classroom Management and Reflection Melissa Tuytens -- Department of Educational Studies	4			A:2	120
3	H002198 Psychology of Adolescence Wim Beyers -- Department of Developmental, Personality and Social Psychology	4			A:1	120

2.2 Programme Pathway Teaching Methodology

6 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002222 Teaching Methodology: Geography Nico Van de Weghe -- Department of Geography	6			J:J	180

2.3 Programme Pathway Internship

12 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002299 Internship A: STEM Katrien Strubbe -- Department of Chemistry	4			A:J	100
2	H002317 Internship B: Geography Nico Van de Weghe -- Department of Geography	4			A:J	100
3	H002339 Internship C: Geography Nico Van de Weghe -- Department of Geography	4			A:J	100

2.4 Elective Courses

6 credits

Subscribe to 6 credit units from one or different modules from the following list. Subject to approval by the faculty.

2.4.1 Module 1: List of Elective Courses

The courses with reference b can only be chosen if the course with reference a has been passed.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H001608 Movement and Sports: Now and Later Veerle Segers -- Department of Movement and Sports Sciences	4	UKV		A:2	120
2	H001838 Culture, Media and Education Kris Rutten -- Department of Educational Studies	4			A:2	120
3	H002128 Methods to Facilitate Socratic Group Discussions in the Educational Context Veerle Provoost -- Department of Philosophy and Moral Sciences	4			A:2	120
4	H002213 Motivational Psychology Maarten Vansteenkiste -- Department of Developmental, Personality and Social Psychology	5			A:1	150
5	H002344 Linguistic Proficiency in Content and Language Integrated Learning: Dutch Bart Deygers -- Department of Translation, Interpreting and Communication	3	b	2	A:2	90
6	H002247 Linguistic Proficiency in Content and Language Integrated Learning: English [en] June Eyckmans -- Department of Translation, Interpreting and Communication	3	b	2	A:2	90

7	H002248	Linguistic Proficiency in Content and Language Integrated Learning: French [fr] Pascale Hadermann -- Department of Linguistics	3	b	2	A:2	90
8	H002249	Linguistic Proficiency in Content and Language Integrated Learning: German [de] Gunther Martens -- Department of Literary Studies	3	b	2	A:2	90
9	H002246	Theory and Practice of Content and Language Integrated Learning Ulrike Vogl -- Department of Linguistics	3	a	1	A:1	90
10	H002283	Teaching Methodology: General Subjects for Technical and Vocational Education, including Internship Katrien Strubbe -- Department of Chemistry	6			A:2	160

2.4.2 Module 2: Additional Course Teaching Methodology

Taking an additional Teaching Methodology Course implies taking the corresponding Internship in the Programme Pathway Internship. Students who are able to demonstrate that they have acquired at least 30 academic credits in another specific domain (60 credits if it concerns a language), can submit a request to the Curriculum Manager for the Master of Education to take the corresponding teaching methodology course. If the Curriculum Manager agrees, the Programme Pathway Internship needs to be revised allowing a student to follow an "Internship C" in this additional teaching methodology

2.4.3 Module 3: Additional Internship

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002332 Short Additional Internship Katrien Strubbe -- Department of Chemistry	3			A:J	80
2	H002333 Extended Additional Internship Katrien Strubbe -- Department of Chemistry	6			A:J	160

2.4.4 Module 4: an Elective Course related to Education

Subscribe to a course of no less than 6 credit units, related to education, and lectured at a university belonging to the Flemish Community (see also: [Enlight Elective Courses](#)), subject to approval by the faculty.

3 Master's Dissertation 24 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004118 Master's Dissertation N. N.	24		2	A:J	720

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