

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

Subscribe to no more than 10 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](#).

2.3 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

Subscribe to no more than 8 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](#).

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 |

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 |