

Faculty of Bioscience Engineering

Master of Science in Bioscience Engineering: Forest and Nature Management

Language of instruction: Dutch

Programme version 11

1 General Courses 50 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|--------------------|-------|
| 1 | I002686 Wood Anatomy and Identification of Wood Species <i>Joris Van Acker -- Department of Environment</i> | 4 | | 1 | A:1 | 120 |
| 2 | I002687 Forestry <i>Kris Verheyen -- Department of Environment</i> | 4 | | 1 | A:J | 120 |
| 3 | I001946 Forest Exploitation <i>Joris Van Acker -- Department of Environment</i> | 3 | | 1 | A:1 | 75 |
| 4 | I002689 Inventory of Forest and Nature <i>Jan Van den Bulcke -- Department of Environment</i> | 5 | | 1 | A:1 | 150 |
| 5 | I002690 Wood Technology: Basic Material Properties <i>Joris Van Acker -- Department of Environment</i> | 4 | | 1 | A:2 | 120 |
| 6 | I002691 Nature Conservation <i>Lander Baeten -- Department of Environment</i> | 4 | | 1 | A:1 | 120 |
| 7 | I002692 Forest and Nature Policy <i>Myriam Dumortier -- Department of Environment</i> | 5 | | 2 | A:1 | 150 |
| 8 | I002693 Forest and Nature Management Planning [en] <i>Jos Van Orshoven -- KU Leuven</i> | 5 | | 2 | A:2 | 150 |
| 9 | I002696 Vegetation Modelling [en] <i>Hans Verbeeck -- Department of Environment</i> | 4 | | 1 | A:2 | 120 |
| 10 | I002697 Urban Green Management <i>Jan Mertens -- Department of Environment</i> | 4 | | 1 | A:1 | 120 |
| 11 | I002694 Integrated Forest Management Practicum <i>Joris Van Acker -- Department of Environment</i> | 4 | | | A:2 ^a | 120 |
| 12 | I002695 Integrated Nature Management Practicum <i>Lander Baeten -- Department of Environment</i> | 4 | | | (A:2) ^d | 120 |

2 Elective Courses 40 credits

Subscribe to 40 credit units from no less than 3 and no more than 5 module(s) from the following list, of which at least 1 course unit is included from the list 2.3 Entrepreneurship and Management. Subject to approval by the faculty.

Full-time standard learning track:

Students can choose which of the elective course units are taken in the first respectively the second standard learning track year (unless otherwise specified); in combination with the general course units, students take a total of 54 to 66 credits per standard learning track year. The sum of the total number of credits taken up over the 2 standard learning track years must be 120 credits.

2.1 Master Specific Courses

Topics (see reference):

- B = Forest

- H = Wood

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|--------------------|-------|
| 1 | I002703 Forest Protection <i>Luc Tirry -- Department of Plants and Crops</i> | 4 | B | | A:1 | 120 |
| 2 | I002704 Forest Management for Ecosystem Services <i>Kris Verheyen -- Department of Environment</i> | 5 | B | | (A:2) ^d | 150 |

| | | | | | | |
|---|---------|--|---|---|-----|-----|
| 3 | I002705 | Tropical Forestry [en] <i>Joris Van Acker -- Department of Environment</i> | 5 | B | A:2 | 150 |
| 4 | I002706 | Wood Technology: Wood Processing and Forest Products [en] <i>Joris Van Acker -- Department of Environment</i> | 5 | H | A:2 | 150 |

2.2 Elective Courses from Related Fields of Study

Topics (see references):

- BD = Soil
- W = Water
- LB = Agriculture
- K = Climate
- LS = Landscape
- DZ = Sustainability
- D = Data

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|----------|-----|---------|-------|
| 1 | I002646 Nutrient Management [en] <i>Stefaan De Neve -- Department of Environment</i> | 3 | BD | | B:2 | 90 |
| 2 | I002664 Soil Erosion Control: Principles and Practice [en] <i>Ann Verdoodt -- Department of Environment</i> | 4 | BD | | A:1 | 120 |
| 3 | I002699 Land Evaluation [en] <i>Ann Verdoodt -- Department of Environment</i> | 5 | BD | | A:2 | 150 |
| 4 | I002453 Biogeochemical Cycles <i>Steven Sleutel -- Department of Environment</i> | 5 | BD | | A:2 | 150 |
| 5 | I002713 Applied Soil Biology [en] <i>Stefaan De Neve -- Department of Environment</i> | 4 | BD | | A:1 | 120 |
| 6 | I002504 Applied Freshwater Ecology [en] <i>Peter Goethals -- Department of Animal Sciences and Aquatic Ecology</i> | 3 | W | | A:1 | 90 |
| 7 | I002698 Water Quality Management [en] <i>Peter Goethals -- Department of Animal Sciences and Aquatic Ecology</i> | 4 | W | | A:2 | 120 |
| 8 | I002710 Water in the City <i>Katrien Van Eerdenbrugh -- Department of Environment</i> | 4 | W | | A:1 | 120 |
| 9 | I700070 Hardy Nursery Stock Production <i>Filip Debersaques -- Department of Plants and Crops</i> | 4 | LB | | A:1 | 120 |
| 10 | I002731 Tropical Crop Production [en] <i>Eduardo de la Pena -- Department of Plants and Crops</i> | 4 | LB | | A:2 | 120 |
| 11 | I002732 Organic Farming <i>Dirk Reheul -- Department of Plants and Crops</i> | 4 | LB | | A:1 | 120 |
| 12 | I002515 Crop Husbandry <i>Dirk Reheul -- Department of Plants and Crops</i> | 5 | LB | | A:1 | 150 |
| 13 | I002655 Meteorology and Ecoclimatology <i>Hans Verbeeck -- Department of Environment</i> | 5 | K | | A:1 | 150 |
| 14 | I002656 Climate Change Processes [en, nl] <i>Diego Miralles -- Department of Environment</i> | 5 | K | | A:2 | 150 |
| 15 | C003145 Landscape Management and Design <i>Veerle Van Eetvelde -- Department of Geography</i> | 5 | LS | | | 150 |
| 16 | C004177 Spatiotemporal Analysis and Modelling [en] <i>Nico Van de Weghe -- Department of Geography</i> | 5 | LS | | A:1 | 150 |
| 17 | K001339 Sustainability Thinking <i>Thomas Block -- Department of Political Sciences</i> | 5 | DZ / UKV | | A:J | 150 |
| 18 | K001298 Sustainable Development [en] <i>Bernard Mazijn -- Department of Conflict and Development Studies</i> | 5 | DZ | | A:2 | 150 |
| 19 | E084580 Sustainable Cities <i>Thomas Block -- Department of Political Sciences</i> | 5 | DZ | | A:J | 150 |
| 20 | I001280 Experimental Design [en] <i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i> | 3 | D | | A:2 | 75 |
| 21 | I002091 Predictive Modelling [en] <i>Willem Waegeman -- Department of Data Analysis and Mathematical Modelling</i> | 5 | D | | B:2 | 150 |

2.3 Entrepreneurship and Management

Subscribe to no more than 8 credit units from the following list.
Include at least 1 course unit.

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1 | I002718 Economics and Management of Natural Resources [en] <i>Stijn Speelman -- Department of Agricultural Economics</i> | 4 | | | A:2 | 120 |
| 2 | I001949 Entrepreneurship <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i> | 3 | | | A:2 | 75 |
| 3 | I002619 Management for Engineers [en, nl] <i>Jeroen Buysse -- Department of Agricultural Economics</i> | 4 | | | A:1 | 120 |

2.4 Skills and Attitudes

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

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | I002637 Internship [en, nl] <i>Tom Desmet -- Department of Biotechnology</i> | 5 | a | | A:J | 150 |
| 2 | I002638 International Internship [en, nl] <i>Tom Desmet -- Department of Biotechnology</i> | 5 | a | | A:J | 150 |
| 3 | I002639 Extended Internship [en, nl] <i>Tom Desmet -- Department of Biotechnology</i> | 10 | a | | A:J | 300 |
| 4 | I002640 Extended International Internship [en, nl] <i>Tom Desmet -- Department of Biotechnology</i> | 10 | a | | A:J | 300 |
| 5 | I001944 Bio-ethics [en] <i>Farah Focquaert -- Department of Philosophy and Moral Sciences</i> | 3 | | | A:1 | 75 |
| 6 | C002668 Scientific Communication in English [en] <i>Geert Jacobs -- Department of Linguistics</i> | 5 | | | A:2 | 150 |
| 7 | I001784 Seminar [en, nl] <i>Mieke Uyttendaele -- Department of Food Technology, Safety and Health</i> | 3 | | | A:J | 75 |

2.5 Open Choice

Subscribe to course units from courses offered at Ghent University and at the alliance partner VUB, including the [Ghent University Elective Courses](#).

A maximum of 2 such courses is allowed.

Maximum 8 credit units language courses are allowed within this master programme.

Subject to approval by the Faculty.

3 Master's Dissertation 30 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | I001483 Master's Dissertation <i>Joris Van Acker -- Department of Environment</i> | 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 2022-2023 | f: annually, from 2023-2024 | i: annually, from 2024-2025 |
| b: tri-annually | d: bi-annually, from 2022-2023 | g: bi-annually, from 2023-2024 | j: bi-annually, from 2024-2025 |
| | e: tri-annually, from 2022-2023 | h: tri-annually, from 2023-2024 | k: tri-annually, from 2024-2025 |