

Faculty of Bioscience Engineering

Master of Science in Bioscience Engineering: Forest and Nature Management

Language of instruction: Dutch

Programme version 12

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>Patrick De Clercq -- Department of Plants and Crops</i>	4	LB		A:1	120
12	I002515 Crop Husbandry <i>Steven Maenhout -- 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		A:1	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	I002932 Machine Learning for Life Sciences [en] <i>Willem Waegeman -- Department of Data Analysis and Mathematical Modelling</i>	5	D		A:1	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] <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>Paul Van der Meeren -- Department of Green Chemistry and Technology</i>	5	a		A:J	150
2	I002638 International Internship [en, nl] <i>Paul Van der Meeren -- Department of Green Chemistry and Technology</i>	5	a		A:J	150
3	I002639 Extended Internship [en, nl] <i>Paul Van der Meeren -- Department of Green Chemistry and Technology</i>	10	a		A:J	300
4	I002640 Extended International Internship [en, nl] <i>Paul Van der Meeren -- Department of Green Chemistry and Technology</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 2024-2025	f: annually, from 2025-2026	i: annually, from 2026-2027
b: tri-annually	d: bi-annually, from 2024-2025	g: bi-annually, from 2025-2026	j: bi-annually, from 2026-2027
	e: tri-annually, from 2024-2025	h: tri-annually, from 2025-2026	k: tri-annually, from 2026-2027