GHENT UNIVERSITY

Study Programme

Academic year 2025-2026

Faculty of Bioscience Engineering

Master of Science in Bioscience Engineering: Forest and Nature Management

Language of instruction: Dutch

Programme version 14

1 General Courses 58 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I002686	Wood Anatomy and Identification of Wood Species *Joris Van Acker -- Department of Environment*	4		1	A:1	120
2	I003022	Forest Exploitation and Nature Management Techniques *Joris Van Acker -- Department of Environment*	4		1	A:1	120
3	I002689	Inventory of Forest and Nature *Jan Van den Bulcke -- Department of Environment*	5		1	A:1	150
4	I003055	Biodiversity and Nature Conservation *Lander Baeten -- Department of Environment*	4		1	A:1	120
5	I002697	Urban Green Management *Jan Mertens -- Department of Environment*	4		1	A:1	120
6	I002687	Forestry *Kris Verheyen -- Department of Environment*	4		1	A:J	120
7	I002696	Vegetation Modelling [en] *Hans Verbeeck -- Department of Environment*	4		1	A:2	120
8	I003069	Wood Technology: Basic Material Properties [en] *Joris Van Acker -- Department of Environment*	4		1	A:2	120
9	I003012	Management for Ecosystem Services *Kris Verheyen -- Department of Environment*	5		1	A:2	150
10	I003013	Advanced Remote Sensing [en] *Kim Calders -- Department of Environment*	5		1	A:2	150
11	I002692	Forest and Nature Policy *Myriam Dumortier -- Department of Environment*	5		2	A:1	150
12	I003064	Planning for Multifunctional Landscapes *Kris Verheyen -- Department of Environment*	5		2	A:2	150
13	I003065	Integrated Ecosystem Management Practicum *Lander Baeten -- Department of Environment*	5		2	A:2	150

2 Elective Courses 32 credits

Subscribe to 32 credit units from 2 modules from the following list, of which at least 17 credit units from module 2.1 and at least 5 credit units from module 2.2.

2.1 Discipline-Specific Courses

Subscribe to no less than 17 credit units from the following list.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I002705	Tropical Forestry [en] *Joris Van Acker -- Department of Environment*	5			A:1	150
2	I002706	Wood Technology: Wood Processing and Forest Products [en] *Joris Van Acker -- Department of Environment*	5			A:2	150
3	I002646	Nutrient Management [en] *Stefaan De Neve -- Department of Environment*	5			A:2	150
4	I002708	Soil Water Management [en] *Wim Cornelis -- Department of Environment*	5			A:2	150

5	I002992	Soil Biology [en] *Stefaan De Neve -- Department of Environment*	4		A:1	120
6	I002698	Water Quality Management [en] *Peter Goethals -- Department of Animal Sciences and Aquatic Ecology*	4		A:2	120
7	I002710	Water in the City *Katrien Van Eerdenbrugh -- Department of Environment*	4		A:1	120
8	I003066	Agroecology [en] *Eduardo de la Pena -- Department of Plants and Crops*	5		A:1	150
9	I002655	Meteorology and Ecoclimatology *Hans Verbeeck -- Department of Environment*	5		A:2	150
10	E084581	Sustainable Cities *Thomas Block -- Department of Political Sciences*	6		A:J	180
11	I002535	Applied Marine Ecology [en] *Colin Janssen -- Department of Animal Sciences and Aquatic Ecology*	3		A:1	90

2.2 Cross-Disciplinary Elective Courses 15 credits

Subscribe to 1 module from the following list.
Courses for which the final competencies are already (largely) achieved by another course in the curriculum cannot be included as part of the elective set.
Subject to approval by the faculty.

2.2.1 Elective Set

2.2.1.1 Cross-Disciplinary Elective Set for Bioscience Engineers

Subscribe to 15 credit units from the following list, with no more than 10 credit units with reference A.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I003053	Machine Learning for Life Sciences [en] *Willem Waegeman -- Department of Data Analysis and Mathematical Modelling*	4			A:1	120
2	I003054	Computer Vision for Life Sciences [en] *Jan Verwaeren -- Department of Data Analysis and Mathematical Modelling*	5			A:2	150
3	I003021	Advanced Biosystems Modelling [en] *Paul Van Liedekerke -- Department of Data Analysis and Mathematical Modelling*	5			A:2	150
4	I001280	Experimental Design [en] *Stijn Luca -- Department of Data Analysis and Mathematical Modelling*	3			A:2	75
5	I003068	Management for Engineers [en] *Jeroen Buysse -- Department of Agricultural Economics*	4			A:1	120
6	I002718	Economics and Management of Natural Resources [en] *Stijn Speelman -- Department of Agricultural Economics*	4			A:2	120
7	I002750	Isotopes in Biosciences [en] *Pascal Boeckx -- Department of Green Chemistry and Technology*	5			A:1	150
8	I003055	Biodiversity and Nature Conservation *Lander Baeten -- Department of Environment*	4			A:1	120
9	I002586	Multidisciplinary Analysis of Climate Change [en] *Pascal Boeckx -- Department of Green Chemistry and Technology*	3			A:2	90
10	I003056	Human Nutrition and Health [en] *John Van Camp -- Department of Food Technology, Safety and Health*	5			A:1	150
11	I002758	Food Marketing and Consumer Behaviour [en] *Wim Verbeke -- Department of Agricultural Economics*	5			A:1	150
12	I003067	Bioethics [en] *Michiel De Proost -- Department of Philosophy and Moral Sciences*	3			A:1	75
13	I002637	Internship [en, nl] *Paul Van der Meeren -- Department of Green Chemistry and Technology*	5	A		A:J	150
14	I002638	International Internship [en, nl] *Paul Van der Meeren -- Department of Green Chemistry and Technology*	5	A		A:J	150
15	I002639	Extended Internship [en, nl] *Paul Van der Meeren -- Department of Green Chemistry and Technology*	10	A		A:J	300
16	I002640	Extended International Internship [en, nl] *Paul Van der Meeren -- Department of Green Chemistry and Technology*	10	A		A:J	300

2.2.2 Open Choice

Subscribe to course units from courses offered at Ghent University, including the Ghent University Elective Courses.
A minimum of 5 credit units is required from module 2.2.1.1. "Cross-Disciplinary Elective Set for Bioscience Engineers".
Maximum 8 credit units language courses are allowed within this master programme.

3 Master's Dissertation 30 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I001483	Master's Dissertation *Joris Van Acker -- Department of Environment*	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 cours name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Kroatian/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 in 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 2026-2027	f: annually, from 2027-2028	i: annually, from 2028-2029
b: tri-annually	d: bi-annually, from 2026-2027	g: bi-annually, from 2027-2028	j: bi-annually, from 2028-2029
	e: tri-annually, from 2026-2027	h: tri-annually, from 2027-2028	k: tri-annually, from 2028-2029