GHENT UNIVERSITY

Study Programme

Academic year 2024-2025

Programme jointly offered by Ghent University,Universiteit Antwerpen,Vrije Universiteit Brussel

Master of Science in Marine and Lacustrine Science and Management

Language of instruction: English

Programme version 11

1 General Courses — 45 credits

Subscribe to 39 credit units from the following list, with 3 credit units with reference a.
Subscribe to 6 credit units from 1 module from the following list.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C003807	Oceanography Ann Vanreusel -- Department of Biology	4		1	A:1	120
2	C003808	Estuarine and Coastal Systems Universiteit Antwerpen, Stijn Temmerman	5		1	A:1	150
3	C002469	Law and Ethics on Conservation of Aquatic Systems An Cliquet -- Department of European, Public and International Law	3		1	A:2	90
4	C002470	In-situ and Remote Sensing Tools in Aquatic Sciences Vera Van Lancker -- Department of Geology	5		1	A:2	150
5	C003809	Environmental Modelling Karline Soetaert -- Department of Biology	3		1	A:2	90
6	C004441	Freshwater Ecology Vrije Universiteit Brussel, N. N.	5		1	A:1	150
7	C002772	Limnology Dirk Verschuren -- Department of Biology	5		1	A:2	135
8	C003353	Integrated Marine Coastal Ecology Field Course Vrije Universiteit Brussel, Marc Kochzius	3		1	A:2	90
9	C003354	Integrated Field Course at Sea Jan Vanaverbeke -- Department of Biology	3	a	1	A:2	90
10	C003355	Integrated Limnological Field Course N. N.	3	a	1	A:2	90
11	C004407	Integrated Estuarine Field Course Vrije Universiteit Brussel, Natacha Brion	3	a	1	A:2	90
12	C003810	Seminars: Case Studies on Biodiversity Management Ann Vanreusel -- Department of Biology	3		1	(A:J)[d]	90

1.1 Elective Course List — 6.0 credits

Subscribe to 6 credit units from the following list.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004042	Monsoon School Vrije Universiteit Brussel, Ann Vanreusel -- Department of Biology	6			A:J[a]	175
2	C004371	Summer School Vrije Universiteit Brussel, Ann Vanreusel -- Department of Biology	6			A:J	150

1.2 Elective Courses — 6.0 credits

Students can choose 6 ECTS from any Master programme offered by Belgian universities (subject to approval by the chairman of the examination board).

2 Majors — 24 credits

Subscribe to 1 major from the following list. Subject to approval by the faculty.

2.1 Major Global Change Impacts on Ecology and Biodiversity — 24.0 credits

Nr	Course		CRDT	Ref	MT1	Session	Study

1	C004045	Marine Genomics [nl, en] Sofie Derycke -- Department of Biology	3		A:1	90
2	C004046	Marine Food Web Ecology Marleen De Troch -- Department of Biology	3		A:1	90
3	C002491	Ecology of Coastal Seas Marleen De Troch -- Department of Biology	3		A:2	90
4	C004043	Marine Extreme Systems Ann Vanreusel -- Department of Biology	6		A:1	180
5	C002493	Lacustrine Systems Wim Vyverman -- Department of Biology	3		A:2	90
6	C002476	Aquatic Microbial Ecology Wim Vyverman -- Department of Biology	6		A:1	180

2.2 Major Conservation Biology and Ecosystem Management 24.0 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004044	Marine Fisheries Ecology and Management Vrije Universiteit Brussel, Marc Kochzius	6			A:J	178
2	C004048	Integrated Coastal Zone Management Vrije Universiteit Brussel, Farid Dahdouh-Guebas	3			A:1	78
3	C002503	Tropical Marine Ecology and Restoration Vrije Universiteit Brussel, Nico Koedam	3			A:2	90
4	C003821	Conservation Genetics Vrije Universiteit Brussel, Marc Kochzius	3			A:2	75
5	C002499	Environmental Impact Assessment Steven Degraer -- Department of Biology	3			A:1	90
6	C002500	Law of the Sea and Protection of Oceans Klaas Willaert -- Department of European, Public and International Law	3			A:1	90
7	C004047	Marine Biodiversity Marleen De Troch -- Department of Biology	3			A:1	90

2.3 Major Environmental Impact and Remediation 24.0 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C002499	Environmental Impact Assessment Steven Degraer -- Department of Biology	3			A:1	90
2	C003813	Aquatic Ecotoxicology and Environmental Monitoring Universiteit Antwerpen, Lieven Bervoets	6			A:1	150
3	C003814	Ecosystem Based Adaptation to Global Change Universiteit Antwerpen, Stijn Temmerman	6			A:J	160
4	C002505	Integrated Practicals Universiteit Antwerpen, Gudrun De Boeck	3		2	A:2	90
5	C004094	Physiology of Aquatic Organisms Universiteit Antwerpen, Gudrun De Boeck	6			A:1	180

2.4 Major Marine and Lacustrine Geosciences 24.0 credits

Only available for students with a sufficient geological knowlegde.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C003816	Advanced Sedimentology Maarten Van Daele -- Department of Geology	6			A:1	180
2	C001584	Paleobiology of Micro-organisms Stephen Louwye -- Department of Geology	6				150
3	C003998	Integrated Offshore Exploration David Van Rooij -- Department of Geology	6			A:2	150
4	C002473	Paleoclimatology and Climate Change Marc De Batist -- Department of Geology	6			A:1	180

3 Elective Courses 21 credits

3.1 Broadening Courses 12.0 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C002478	Governance and Policy in Development and Cooperation Part I Vrije Universiteit Brussel, Nico Koedam	3		1	A:1	90

2	C002479	Governance and Policy in Development and Cooperation Part II Vrije Universiteit Brussel, Ann Vanreusel -- Department of Biology	3	2	A:2	90
3	C003811	Internship Ann Vanreusel -- Department of Biology	6	2	A:J	180

3.2 Supporting Courses 9.0 credits

Subscribe to 9 credit units from the following list. Subject to approval by the faculty.

- Non-biologists who subscribe to Major Global Change Impacts on Ecology and Biodiversity, Major Conservation Biology and Ecosystem Management or Major Environmental Impact and Remediation should follow the course 'Introduction to Marine and Lacustrine Biology.
- At least the level of 'Advanced Applied Statistics' must be reached.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C002477	Data and Information Management Tim Deprez -- Department of Biology	3				90
2	C003114	Introduction to GIS Vrije Universiteit Brussel, Francesc Baró	3				90
3	C002485	Introduction to Marine and Lacustrine Biology Marleen De Troch -- Department of Biology	3		1	A:1	90
4	C004095	Introduction to Data Mining Vrije Universiteit Brussel, Marc Elskens	3		1	A:1	90
5	C003812	Advanced Applied Statistics Ann Vanreusel -- Department of Biology	3			A:2	90
6	C003823	Biogeochemistry Vrije Universiteit Brussel, Marc Elskens	3			A:1[a]	90
7	C004049	Analysis of Biological Data Vrije Universiteit Brussel, Bram Vanschoenwinkel	6			A:1	166
8	C003821	Conservation Genetics Vrije Universiteit Brussel, Marc Kochzius	3			A:2	75
9	C004050	Stable Isotope Geochemistry Steven Goderis -- Department of Chemistry	3			A:2	90
10	C004375	Applied Geomorphology Vrije Universiteit Brussel, Matthieu Kervyn de Meerendre	6			(A:2)[d]	150
11	C004271	Natural Risk Management Vrije Universiteit Brussel, Matthieu Kervyn de Meerendre	3			A:2	90
12	C004373	Water Quality Vrije Universiteit Brussel, Marc Elskens	3			A:2	80
13	C004406	Methods of Scientific Diving Vrije Universiteit Brussel, Alain Norro	3			A:2	75

4 Master's Dissertation 30 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C003357	Master Thesis: Marine and Lacustrine Science and Management	30		2	A:J	750

Teaching languages

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 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