

## Study Programme

Academic year 2022-2023

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
	9 credit units from the following list, with 3 credit units with reference a. credit units from 1 module from the following list.					
Vr 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	а	1	A:2	90
10 C003355	Integrated Limnological Field Course  Marc De Batist Department of Geology	3	а	1	A:2	90
11 C004407	Integrated Estuarine Field Course Vrije Universiteit Brussel, Natacha Brion	3	а	1	A:2	90
12 C003810	Seminars: Case Studies on Biodiversity Management  Ann Vanreusel Department of Biology	3		1	(A:J) <sup>d</sup>	90
1.1 Electiv	ve Course List				6	credits
	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 <sup>a</sup>	175
2 C004371	Summer School Vrije Universiteit Brussel, Ann Vanreusel Department of Biology	6			A:J	150
1.2 Electiv	ve Courses				6	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.

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24	credits
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		CRDT Ref		Session	Study
1 C0040	45 Marine Genomics [en, nl] Sofie Derycke Department of Biology	3		A:1	90
2 C0040	46 Marine Food Web Ecology  Marleen De Troch Department of Biology	3		A:1	90
3 C0024	91 Ecology of Coastal Seas  Marleen De Troch Department of Biology	3		A:2	90
4 C0040	43 Marine Extreme Systems  Ann Vanreusel Department of Biology	6		A:1	180
5 C0024	93 Lacustrine Systems Wim Vyverman Department of Biology	3		A:2	90
6 C0024	76 Aquatic Microbial Ecology Wim Vyverman Department of Biology	6		A:1	180
2.2 Maj	or Conservation Biology and Ecosystem Management			24	credits
Nr Cours		CRDT Ref	MT1	Session	Study
1 C0040		6		A:J	178
2 C0040	48 Integrated Coastal Zone Management Vrije Universiteit Brussel, Farid Dahdouh-Guebas	3		A:1	78
3 C0025	73 Tropical Marine Ecology and Restoration Vrije Universiteit Brussel, Nico Koedam	3			90
4 C0038	21 Conservation Genetics Vrije Universiteit Brussel, Marc Kochzius	3		A:2	75
5 C0024	99 Environmental Impact Assessment Steven Degraer Department of Biology	3		A:1	90
6 C0025	OO Law of the Sea and Protection of Oceans  Klaas Willaert Department of European, Public and International Law	3		A:1	90
7 C0040	47 Marine Biodiversity  Marleen De Troch Department of Biology	3		A:1	90
2.3 Maj	or Environmental Impact and Remediation			24	credits
Nr Cours		CRDT Ref	MT1	Session	Studv
1 C0024	99 Environmental Impact Assessment Steven Degraer Department of Biology	3		A:1	90
2 C0038	13 Aquatic Ecotoxicology and Environmental Monitoring Universiteit Antwerpen, Lieven Bervoets	6		A:1	150
3 C0038	14 Ecosystem Based Adaptation to Global Change Universiteit Antwerpen, Stijn Temmerman	6		A:J	160
4 C0025	O5 Integrated Practicals Universiteit Antwerpen, Gudrun De Boeck	3	2	A:J	90
5 C0040	94 Physiology of Aquatic Organisms Universiteit Antwerpen, Gudrun De Boeck	6		A:1	180
2.4 Maj	or Marine and Lacustrine Geosciences			24	credits
<mark>Only availa</mark> Nr Cours	ele for students with a sufficient geological knowlegde.	CRDT Ref	MT1	Session	Study
1 C0038	16 Advanced Sedimentology  Maarten Van Daele Department of Geology	6		A:1	180
2 C0015	Paleobiology of Micro-organisms Stephen Louwye Department of Geology	6		A:1	150
3 C0039	98 Integrated Offshore Exploration  David Van Rooij Department of Geology	6		A:2	150
4 C0024	73 Paleoclimatology and Climate Change  Marc De Batist Department of Geology	6		A:1	180
0 EL	ve Courses			21_	credits
7 100					credits

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12 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 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		A:1	90
2	C003114	Introduction to GIS Vrije Universiteit Brussel, Frank Canters	3		A:2	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 <sup>a</sup>	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) <sup>d</sup>	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	S Dissertation			30	credits

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Nr Cours		CRDT	Ref	MT1	Session	Study
1 C003	Master Thesis: Marine and Lacustrine Science and Management	30		2	A:J	750

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## 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 2023-2024 f: annually, from 2024-2025 i: annually, from 2025-2026 g: bi-annually, from 2024-2025 j: bi-annually, from 2025-2026 e: tri-annually, from 2023-2024 h: tri-annually, from 2024-2025 k: tri-annually, from 2025-2026

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