

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 13

1 General Courses 66 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004484 Fundamental Oceans and Lakes Biology Marleen De Troch -- Department of Biology	3		1	A:1	90
2	C003807 Oceanography Ann Vanreusel -- Department of Biology	4		1	A:1	120
3	C004485 Estuarine and Coastal Systems Universiteit Antwerpen, Stijn Temmerman	4		1	A:1	120
4	C004049 Analysis of Biological Data Vrije Universiteit Brussel, Bram Vanschoenwinkel	6		1	A:1	166
5	C004466 Limnology Dirk Verschuren -- Department of Biology	4		1	A:2	120
6	C002469 Law and Ethics on Conservation of Aquatic Systems An Cliquet -- Department of European, Public and International Law	3		1	A:2	90
7	C003809 Environmental Modelling Karline Soetaert -- Department of Biology	3		1	A:2	90

1.1 Toolbox Professional Skills

23.0 credits

Subscribe to 23 credit units from the following list, with

- 3 credit units from the courses with reference a,
- 11 credit units from the courses with reference b.

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		1	A:2	90
3	C003810 Seminars: Case Studies on Biodiversity Management Ann Vanreusel -- Department of Biology	3		1	(A:J) ^d	90
4	C002499 Environmental Impact Assessment Steven Degraer -- Department of Biology	3	a	1	A:1	90
5	C004486 Science Communication Vrije Universiteit Brussel, Diana Di Nitto	3	a	1	A:1	90
6	C004042 Monsoon School Vrije Universiteit Brussel, Ann Vanreusel -- Department of Biology	6	b	2	A:J ^a	175
7	C004371 Summer School Vrije Universiteit Brussel, Ann Vanreusel -- Department of Biology	6	b	2	A:J	150
8	C004487 Internship Ann Vanreusel -- Department of Biology	11	b	2	A:J	330
9	C004487 Internship Ann Vanreusel -- Department of Biology	5	b	2	B:J	150

1.2 Toolbox Research Skills

10.0 credits

Subscribe to 10 credit units from the following list, with 3 credit units with reference a.

Nr	Course	CRDT	Ref	MT1	Session	Study
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1	C003353	Integrated Marine Coastal Ecology Field Course Vrije Universiteit Brussel, Marc Kochzius	3		1	A:2	90
2	C004489	In-situ and Remote Sensing Tools in Aquatic Sciences Vera Van Lancker -- Department of Geology	4		1	A:2	120
3	C003354	Integrated Field Course at Sea Jan Vanaverbeke -- Department of Biology	3	a	1	A:2	90
4	C003355	Integrated Limnological Field Course N. N.	3	a	1	A:2	90
5	C004407	Integrated Estuarine Field Course Vrije Universiteit Brussel, Natacha Brion	3	a	1	A:2	90

1.3 Toolbox Supporting Skills

6.0 credits

Subscribe to 6 credit units from no less than 1 and no more than 2 modules from the following list. Subject to approval by the faculty.

1.3.1 Elective Course List

Subscribe to no more than 6 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004488 Stable Isotope Biogeochemistry Vrije Universiteit Brussel, N. N.	6		1	A:1	180
2	C003114 Introduction to GIS Vrije Universiteit Brussel, Francesc Baró	3		1	A:1	90
3	C004406 Methods of Scientific Diving Vrije Universiteit Brussel, Alain Norro	3		1	A:2	75
4	C004375 Applied Geomorphology Vrije Universiteit Brussel, Matthieu Kervyn de Meerendre	6		1	(A:2) ^d	150
5	C004271 Natural Risk Management Vrije Universiteit Brussel, Matthieu Kervyn de Meerendre	3		1	A:2	90
6	C004555 Scientific Presentation Skills and Career Planning Vrije Universiteit Brussel, Farid Dahdouh-Guebas	3		1	A:J	75

1.3.2 Open Elective

Subscribe to no more than 6 credit units 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	C004491 Aquatic Food Web Ecology Marleen De Troch -- Department of Biology	4		2	A:1	120
2	C004492 Marine Extreme Systems Ann Vanreusel -- Department of Biology	4		2	A:1	120
3	C002476 Aquatic Microbial Ecology Wim Vyverman -- Department of Biology	6		2	A:1	180
4	C004490 Aquatic Genomics [nl, en] Olivier De Clerck -- Department of Biology	6		2	A:1	180
5	C004493 Lacustrine Systems Wim Vyverman -- Department of Biology	4		2	A:2	120

2.2 Major Conservation Biology and Ecosystem Management

24.0 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004495 Freshwater Ecology and Management Vrije Universiteit Brussel, Kristien Brans	6		2	A:1	180
2	C004494 Integrated Coastal Zone Management Vrije Universiteit Brussel, Farid Dahdouh-Guebas	6		2	A:1	180
3	C002500 Law of the Sea and Protection of Oceans Klaas Willaert -- Department of European, Public and International Law	3		2	A:1	90
4	C003821 Conservation Genetics Vrije Universiteit Brussel, Marc Kochzius	3		2	A:2	75
5	C004044 Marine Fisheries Ecology and Management Vrije Universiteit Brussel, Marc Kochzius	6		2	A:J	178

2.3 Major Environmental Impact and Remediation

24.0 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003813 Aquatic Ecotoxicology and Environmental Monitoring Universiteit Antwerpen, Lieven Bervoets	6		2	A:1	150
2	C004496 Global Change Physiology Universiteit Antwerpen, Gudrun De Boeck	6		2	A:1	180
3	C004497 Freshwater Ecosystem Functioning Universiteit Antwerpen, Jeroen Schoenmaeckers	3		2	A:2	90
4	C003814 Ecosystem Based Adaptation to Global Change Universiteit Antwerpen, Stijn Temmerman	6		2	A:J	160
5	C002505 Integrated Practicals Universiteit Antwerpen, Gudrun De Boeck	3		2	A:2	90

2.4 Major Marine and Lacustrine Geosciences

24.0 credits

Only available for students with a sufficient geological knowledge.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003816 Advanced Sedimentology Maarten Van Daele -- Department of Geology	6		2	A:1	180
2	C002607 Micropaleontology and Paleo-environmental Reconstruction Stephen Louwye -- Department of Geology	6		2	A:1	150
3	C002473 Paleoclimatology and Climate Change Marc De Batist -- Department of Geology	6		2	A:1	180
4	C003998 Integrated Offshore Exploration David Van Rooij -- Department of Geology	6		2	A:2	150

3 Master's Dissertation

30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004499 Literature Review Marc Kochzius -- Vrije Universiteit Brussel	3		1	A:2	90
2	C004498 Master Thesis Marc Kochzius -- Vrije Universiteit Brussel	27		2	A:J	810

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 course 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 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 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