

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 14

1 General Courses 66 credits

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

1.1 Toolbox Professional Skills 23 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 <i>Vrije Universiteit Brussel, Nico Koedam</i>	3		1	A:1	90
2	C002479 Governance and Policy in Development and Cooperation Part II <i>Vrije Universiteit Brussel, Jean Hugé -- Department of Biology</i>	3		1	A:2	90
3	C003810 Seminars: Case Studies on Biodiversity Management <i>Karolien Van Puyvelde -- Vrije Universiteit Brussel</i>	3		1	A:J	90
4	C002499 Environmental Impact Assessment <i>Steven Degraer -- Department of Biology</i>	3	a	1	A:1	90
5	C004486 Science Communication <i>Vrije Universiteit Brussel, Diana Di Nitto</i>	3	a	1	A:1	90
6	C004042 Monsoon School <i>Vrije Universiteit Brussel, Jean Hugé -- Department of Biology</i>	6	b	2	(A:J) ^d	175
7	C004371 Summer School <i>Vrije Universiteit Brussel, Gudrun De Boeck -- Universiteit Antwerpen</i>	6	b	2	A:J	150
8	C004487 Internship <i>Jean Hugé -- Department of Biology</i>	11	b	2	A:J	330
9	C004487 Internship <i>Jean Hugé -- Department of Biology</i>	5	b	2	B:J	150

1.2 Toolbox Research Skills 10 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 <i>Vrije Universiteit Brussel, Marc Kochzius</i>	3		1	A:2	90
2	C004489	In-situ and Remote Sensing Tools in Aquatic Sciences <i>Vera Van Lancker -- Department of Geology</i>	4		1	A:2	120
3	C003354	Integrated Field Course at Sea <i>Jan Vanaverbeke -- Department of Biology</i>	3	a	1	A:2	90
4	C003355	Integrated Limnological Field Course <i>Dirk Verschuren -- Department of Biology</i>	3	a	1	A:2	90
5	C004407	Integrated Estuarine Field Course <i>Vrije Universiteit Brussel, Natacha Brion</i>	3	a	1	A:2	90

1.3 Toolbox Supporting Skills

6 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	C004613 Tracer Isotope Biogeochemistry <i>Vrije Universiteit Brussel</i>	6		1	A:1	180
2	C003114 Introduction to GIS <i>Vrije Universiteit Brussel, Francesc Baró</i>	3		1	A:1	90
3	C004406 Methods of Scientific Diving <i>Vrije Universiteit Brussel, Alain Norro</i>	3		1	A:2	75
4	C004375 Applied Geomorphology <i>Vrije Universiteit Brussel, Matthieu Kervyn de Meerendre</i>	6		1	A:2 ^a	150
5	C004271 Natural Risk Management <i>Vrije Universiteit Brussel, Matthieu Kervyn de Meerendre</i>	3		1	A:2	90

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 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004491 Aquatic Food Web Ecology <i>Marleen De Troch -- Department of Biology</i>	4		2	A:1	120
2	C004492 Marine Extreme Systems <i>Ellen Pape -- Department of Biology</i>	4		2	A:1	120
3	C002476 Aquatic Microbial Ecology <i>Wim Vyverman -- Department of Biology</i>	6		2	A:1	180
4	C004490 Aquatic Genomics [en, nl] <i>Olivier De Clerck -- Department of Biology</i>	6		2	A:1	180
5	C004493 Lacustrine Systems <i>Wim Vyverman -- Department of Biology</i>	4		2	A:2	120

2.2 Major Conservation Biology and Ecosystem Management

24 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004495 Freshwater Ecology and Management <i>Vrije Universiteit Brussel, Kristien Brans</i>	6		2	A:1	180
2	C004494 Integrated Coastal Zone Management <i>Vrije Universiteit Brussel, Farid Dahdouh-Guebas</i>	6		2	A:1	180
3	C002500 Law of the Sea and Protection of Oceans <i>Klaas Willaert -- Department of European, Public and International Law</i>	3		2	A:1	90
4	C003821 Conservation Genetics <i>Vrije Universiteit Brussel, Marc Kochzius</i>	3		2	A:2	75
5	C004624 Marine Fisheries Ecology and Management <i>Vrije Universiteit Brussel, Marc Kochzius</i>	3		2	A:2	90

2.2.1 Open Elective

3 credits

Subscribe to 3 credit units from any Master programme offered by Belgian universities (subject to approval by the chairman of the examination board).

2.3 Major Environmental Impact and Remediation

24 credits

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

2.4 Major Marine and Lacustrine Geosciences

24 credits

Only accessible for students with a Bachelor of Science in Geology.

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

3 Master's Dissertation

30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004499 Literature Review	3		1	A:2	90
2	C004498 Master Thesis	27		2	A:J	810

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 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