

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 <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
----	--------	------	-----	-----	---------	-------

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	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	C004488 Stable 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
6	C004555 Scientific Presentation Skills and Career Planning <i>Vrije Universiteit Brussel, Farid Dahdouh-Guebas</i>	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 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	C004044 Marine Fisheries Ecology and Management <i>Vrije Universiteit Brussel, Marc Kochzius</i>	6		2	A:J	178

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