

Programme jointly offered by Ghent University, Università Politecnica delle Marche, University of Bergen, University of Algarve, University of Oviedo, University of Gothenburg, University of the Basque Country, University Côte d'Azur, Université de Brest (Université de Bretagne Occidentale), Atlantic Technological University

## International Master of Science in Marine Biological Resources

Language of instruction: English

### Programme version 3

#### 1 General Courses 54 credits

Subscribe to 1 package from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003906 Professional Practice <i>Luana Da Costa Monteiro -- Department of Biology</i>	12		1	A:2	300
2	C003907 Joint School <i>Luana Da Costa Monteiro -- Department of Biology</i>	6		2	A:1	150
3	C003934 Research Design, Data Management and Data Communication in Marine Sciences <i>Tom Moens -- Department of Biology</i>	6		2	A:1	150

#### 1.1 Fundamentals Package (UGent) 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003870 Marine Policy and Governance <i>Klaas Willaert -- Department of European, Public and International Law</i>	3		1	A:1	75
2	C003871 Marine Genomics <i>Olivier De Clerck -- Department of Biology</i>	3		1	A:1	75
3	C003872 Quantitative Methods in Marine Science <i>Ulrike Braeckman -- Department of Biology</i>	6		1	A:1	150
4	C003873 Oceanography <i>Ann Vanreusel -- Department of Biology</i>	6		1	A:1	150
5	C003874 Marine Ecology <i>Carl Van Colen -- Department of Biology</i>	6		1	A:1	150
6	C003875 Marine GIS and Spatial Planning <i>Luana Da Costa Monteiro -- Department of Biology</i>	3		1	A:1	75

##### 1.1.1 Transferable Skills

Subscribe to 3 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004034 Graphics Design and Digital Imaging <i>Francesca Pasotti -- Department of Biology</i>	3		1	A:1	75
2	A002615 Practical English 3 - B1 <i>Universitair centrum voor taalonderwijs, Sara Scheir -- Department of Linguistics</i>	3		1		75
3	A002616 Practical English 4 - B1+ <i>Universitair centrum voor taalonderwijs, Sara Scheir -- Department of Linguistics</i>	3		1		75
4	A002658 Practical English 5 - B2 <i>Universitair centrum voor taalonderwijs, Sara Scheir -- Department of Linguistics</i>	3		1		75

#### 1.2 Fundamentals Package (UniOvi) 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004021 Marine Policy and Governance <i>Universidad de Oviedo, Alberto Fonseca -- University of Oviedo</i>	3		1	A:1	75
2	C004022 Marine Genomics <i>Universidad de Oviedo, Eva García Vazquez -- University of Oviedo</i>	3		1	A:1	75
3	C004023 Quantitative Methods in Marine Science <i>Universidad de Oviedo, Trinidad Pérez Méndez -- University of Oviedo</i>	6		1	A:1	150
4	C004024 Oceanography <i>Universidad de Oviedo, José Luis Acuña -- University of Oviedo</i>	6		1	A:1	150
5	C004025 Marine Ecology <i>Universidad de Oviedo, José Luis Acuña -- University of Oviedo</i>	6		1	A:1	150
6	C004026 Marine GIS and Spatial Planning <i>Universidad de Oviedo, Mario Quevedo -- University of Oviedo</i>	3		1	A:1	75

### 1.2.1 Transferable Skills

[Subscribe to 3 credit units from the following list.](#)

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004038 Spanish Language Course <i>Universidad de Oviedo, Pablo Martínez -- University of Oviedo</i>	3		1	A:1	75
2	C004275 Voluntary Work in the Solidarity Space <i>Universidad de Oviedo, Yaisel Juan Borrell Pichs -- University of Oviedo</i>	3		1	A:1	75

### 1.3 Fundamentals Package (UAlg)

30 credits

[Subscribe to 1 option from the following list.](#)

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004015 Marine Policy and Governance <i>Universidade do Algarve, Giuseppe Cataldi -- University of Algarve</i>	3		1	A:1	75
2	C004016 Marine Genomics <i>Universidade do Algarve, Deborah Power -- University of Algarve</i>	3		1	A:1	75
3	C004017 Quantitative Methods in Marine Science <i>Universidade do Algarve, Margarida Castro -- University of Algarve</i>	6		1	A:1	150
4	C004018 Oceanography <i>Universidade do Algarve, Paulo Relvas -- University of Algarve</i>	6		1	A:1	150
5	C004019 Marine Ecology <i>Universidade do Algarve, Ester Serrão -- University of Algarve</i>	6		1	A:1	150
6	C004020 Marine GIS and Spatial Planning <i>Universidade do Algarve, Maria Conceição Neves -- University of Algarve</i>	3		1	A:1	75

### 1.3.1 Transferable Skills

[Subscribe to 3 credit units from the following list.](#)

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004037 Portuguese Language Teaching B <i>Universidade do Algarve, Fatima Noronha -- University of Algarve</i>	3		1	A:1	75
2	C004276 Advanced SCUBA Skills for Scientific Diving <i>Universidade do Algarve, Rui Santos -- University of Algarve</i>	3		1	A:1	84
3	C004277 SCUBA Diver Level 1 <i>Universidade do Algarve, Rui Santos -- University of Algarve</i>	3		1	A:1	84
4	C004278 Scientific Diving in Marine Ecology <i>Universidade do Algarve, Rui Santos -- University of Algarve</i>	3		1	A:1	84
5	C004279 Field Methods B <i>Universidade do Algarve, João Varela -- University of Algarve</i>	3		1	A:1	84
6	C004280 Laboratory Methods B <i>Universidade do Algarve, João Varela -- University of Algarve</i>	3		1	A:1	84

### 1.3.2 Elective Course List

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004500 Coastal and Marine Ornithology <i>Universidade do Algarve, José Alves -- University of Algarve</i>	3		1		75

### 1.4 Fundamentals Package (UBO)

30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
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1	C004027	Marine Policy and Governance <i>Université de Bretagne Occidentale, Denis Bailly -- Université de Brest (Université de Bretagne Occidentale)</i>	3	1	A:1	75
2	C004028	Marine Genomics <i>Université de Bretagne Occidentale, Caroline Fabioux -- Université de Brest (Université de Bretagne Occidentale)</i>	3	1	A:1	75
3	C004348	Quantitative Methods in Marine Science <i>Université de Bretagne Occidentale, Olivier Gauthier -- Université de Brest (Université de Bretagne Occidentale)</i>	6	1	A:1	150
4	C004030	Oceanography <i>Université de Bretagne Occidentale, Matthieu Waeles -- Université de Brest (Université de Bretagne Occidentale)</i>	6	1	A:1	150
5	C004031	Marine Ecology <i>Université de Bretagne Occidentale, Fred Jean -- Université de Brest (Université de Bretagne Occidentale)</i>	6	1	A:1	150
6	C004032	Marine GIS and Spatial Planning <i>Université de Bretagne Occidentale, Teriitutea Quesnot -- Université de Brest (Université de Bretagne Occidentale)</i>	3	1	A:1	75

#### 1.4.1 Transferable Skills

[Subscribe to 1 option from the following list.](#)

##### 1.4.1.1 Elective Course List

[Subscribe to 3 credit units from the following list.](#)

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004357 French for Foreign Students <i>Université de Bretagne Occidentale, Isabelle Lagattu -- Université de Brest (Université de Bretagne Occidentale)</i>	3		1	A:1	75
2	C004501 Science Communication <i>Université de Bretagne Occidentale, Jill Sutton -- Université de Brest (Université de Bretagne Occidentale)</i>	3		1	A:1	75

##### 1.4.1.2 Elective Courses UBO

[Subscribe to 3 credit units from the study programmes of UBO.](#)

#### 1.5 Fundamentals Package (Univpm)

30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004281 Marine Policy and Governance <i>Università Politecnica delle Marche, Fabio Vallarola</i>	3		1	A:1	75
2	C004282 Marine Genomics <i>Università Politecnica delle Marche, Emiliano Trucchi</i>	3		1	A:1	75
3	C004283 Quantitative Methods in Marine Science <i>Università Politecnica delle Marche, Francesco Memmola</i>	6		1	A:1	150
4	C004284 Marine Ecology <i>Università Politecnica delle Marche, Emanuela Fanelli</i>	6		1	A:1	150
5	C004285 Marine GIS and Spatial Planning <i>Università Politecnica delle Marche, Elena Gissi</i>	3		1	A:1	75
6	C004286 Oceanography <i>Università Politecnica delle Marche, Pierpaolo Falco</i>	6		1	A:1	150

##### 1.5.1 Transferable Skills

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004287 Science Dissemination and Communication <i>Università Politecnica delle Marche, Serena Lucrezi</i>	3		1	A:1	75

#### 1.6 Fundamentals Package (GMIT)

30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004352 Marine Policy and Governance <i>Galway-Mayo Institute of Technology, Sinead Murphy</i>	3		1	A:1	75
2	C004353 Marine Genomics <i>Galway-Mayo Institute of Technology, Luca Mirimin</i>	3		1	A:1	75
3	C004347 Quantitative Methods in Marine Science <i>Galway-Mayo Institute of Technology, Jose Maria Farinas Franco</i>	6		1	A:1	150
4	C004354 Oceanography <i>Galway-Mayo Institute of Technology, Ian O'Connor</i>	6		1	A:1	150
5	C004355 Marine Ecology <i>Galway-Mayo Institute of Technology, Rosin Nash</i>	6		1	A:1	150
6	C004356 Marine GIS and Spatial Planning <i>Galway-Mayo Institute of Technology, Jose Maria Farinas Franco</i>	3		1	A:1	75

## 1.6.1 Transferable Skills

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004288 Stakeholder Management <i>Galway-Mayo Institute of Technology, Heidi Acampora</i>	3		1	A:1	75

## 2 Minors

18 credits

Subscribe to 1 minor from the following list.

### 2.1 Minor Fisheries (UAlg)

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004242 Conservation and Management <i>Universidade do Algarve, Margarida Castro -- University of Algarve</i>	6		1	A:2	168
2	C004243 Fisheries Economics <i>Universidade do Algarve, Renato Nunes Rosa -- University of Algarve</i>	3		1	A:2	84
3	C004244 Fisheries Technology and Stock Assessment <i>Universidade do Algarve, Karim Erzini -- University of Algarve</i>	6		1	A:2	168
4	C004245 Socioeconomic Dimension of Fisheries <i>Universidade do Algarve, Cristina Pita -- University of Algarve</i>	3		1	A:2	84

### 2.2 Minor Marine Resource Valorization (UCA)

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004289 Natural Resources Valorization <i>Université Côte d'Azur, Mohamed Mehiri -- University Côte d'Azur</i>	6		1	A:2	150
2	C004290 Depict Marine Biodiversity <i>Université Côte d'Azur, Paola Furla -- University Côte d'Azur</i>	6		1	A:2	150
3	C004291 Entrepreneurship and Innovation in the Blue Economy <i>Université Côte d'Azur, Christophe Imbert -- University Côte d'Azur</i>	6		1	A:2	150

### 2.3 Minor Global Change and Functional Biodiversity (SU)

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004344 Concepts and Practices in Biological Oceanography and Marine Ecology - Part 1 <i>Sorbonne Université, Laurence Méjanelle</i>	6		1	A:2	150
2	C004345 Concepts and Practices in Biological Oceanography and Marine Ecology - Part 2 <i>Sorbonne Université, Jadwiga Orignac -- University Pierre et Marie Curie (UPMC)</i>	6		1	A:2	150
3	C004292 Concepts and Practices in Biological Oceanography and Marine Ecology - Part 3 <i>Sorbonne Université, François Lantoine -- University Pierre et Marie Curie (UPMC)</i>	6		1	A:2	150

### 2.4 Minor Fisheries and Fisheries management (UiB)

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004293 Ecosystem- and Fisheries Assessment Models <i>University of Bergen, Mikko Heino</i>	10		1	A:2	250
2	C004294 Stock Monitoring and Responsible Harvest <i>University of Bergen, Johnsen Espen</i>	8		1	A:2	200

### 2.5 Minor Marine Living Resources (UniOvi)

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003885 Molecular Techniques applied to Resource Evaluation and Management <i>Universidad de Oviedo, Gonzalo Machado Schiaffino -- University of Oviedo</i>	6		1	A:2	150
2	C003886 Modelling and Management of Wild Populations <i>Universidad de Oviedo, Julio Arrontes -- University of Oviedo</i>	6		1	A:2	150
3	C003887 Management of Marine Living Resources in Practice <i>Universidad de Oviedo, Jose Rico -- University of Oviedo</i>	6		1	A:2	150

### 2.6 Minor Marine Spatial Planning (UniOvi)

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004237 Integrated Coastal Zone Management <i>Universidad de Oviedo, Jose Rico -- University of Oviedo</i>	3		1	A:2	75

2	C004238	Landscape Genetics in Marine Settings <i>Universidad de Oviedo, Trinidad Pérez Méndez -- University of Oviedo</i>	3	1	A:2	75
3	C004239	Marine Protected Areas <i>Universidad de Oviedo, José Luis Acuña -- University of Oviedo</i>	3	1	A:2	75
4	C004240	Spatial Distribution of Genetic Biodiversity <i>Universidad de Oviedo, Gonzalo Machado Schiaffino -- University of Oviedo</i>	3	1	A:2	75
5	C004241	Spatial Planning in Practice <i>Universidad de Oviedo, Eva García Vazquez -- University of Oviedo</i>	6	1	A:2	150

## 2.7 Minor Marine Animal Health (UPV/EHU)

18 credits

[Subscribe to 20 credit units from the following list.](#)

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004346 Cellular and Molecular Biomarkers <i>Universidad del País Vasco / Euskal Herriko Unibertsitatea, Miren Cajaraville -- University of the Basque Country</i>	4		1	A:2	100
2	C004295 Comparative Endocrinology and Endocrine Disruption <i>Universidad del País Vasco / Euskal Herriko Unibertsitatea, Maren Ortiz-Zarragoitia -- University of the Basque Country</i>	4		1	A:2	100
3	C004230 Environment and Fisheries/Aquaculture Interactions <i>Universidad del País Vasco / Euskal Herriko Unibertsitatea, Iciar Martínez -- University of the Basque Country</i>	4		1	A:2	100
4	C004231 Environmental Toxicogenomics <i>Universidad del País Vasco / Euskal Herriko Unibertsitatea, Ibon Cancio -- University of the Basque Country</i>	4		1	A:2	100
5	C003881 Histology and Histopathology of Aquatic Animals <i>Universidad del País Vasco / Euskal Herriko Unibertsitatea, Manu Soto -- University of the Basque Country</i>	4		1	A:2	100
6	C004232 Marine Resources Genomics <i>Universidad del País Vasco / Euskal Herriko Unibertsitatea, Andone Estonba -- University of the Basque Country</i>	4		1	A:2	100
7	C004233 Physiological Energetics of Marine Organisms <i>Universidad del País Vasco / Euskal Herriko Unibertsitatea, Enrique Navarro -- University of the Basque Country</i>	4		1	A:2	100

## 2.8 Minor Experimental Marine Ecology (UGent)

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003893 Species Interactions and Marine Food Webs - Experiments in Marine Food Web Ecology <i>Marleen De Troch -- Department of Biology</i>	6		1	A:2	150
2	C003891 Responses in a Changing Marine Environment - Experiments in Marine Global Change Ecology <i>Carl Van Colen -- Department of Biology</i>	6		1	A:2	150
3	C003892 Methods in Experimental Marine Ecology <i>Marleen De Troch -- Department of Biology</i>	6		1	A:2	150

## 2.9 Minor Marine Conservation (Univpm)

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004349 Field Practices, Sampling Design and Census of Marine Communities <i>Università Politecnica delle Marche, Cristina Gioia Di Camillo</i>	6		1	A:2	150
2	C003894 Marine Conservation Biology <i>Università Politecnica delle Marche, Antonio Dell'Anno</i>	6		1	A:2	150
3	C004301 Marine Protected Areas, Design and Management <i>Università Politecnica delle Marche, Carlo Cerrano</i>	6		1	A:2	150

## 2.10 Minor Applied Marine Ecology (Univpm)

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004350 Field Practices in Marine Monitoring <i>Università Politecnica delle Marche, Marco Lo Martire</i>	6		1	A:2	150
2	C003897 Applied Marine Ecology <i>Università Politecnica delle Marche, Cinzia Corinaldesi</i>	6		1	A:2	150
3	C004351 Marine Ecotoxicology <i>Università Politecnica delle Marche, Francesco Regoli</i>	6		1	A:2	150

## 3 Majors

18 credits

[Subscribe to 1 major from the following list.](#)

### 3.1 Major Analysis and Forecast in Marine Systems

18 credits

[Subscribe to 1 Option from the following list.](#)

### 3.1.1 Marine Ecosystem Functioning and Changes: from Fundamentals to Experiments and Monitoring (SU) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004297 Coastal Ecosystem Ecology and Functioning <i>Sorbonne Université, A. Pruski -- University Pierre et Marie Curie (UPMC)</i>	6		2	A:1	150
2	C004298 Characterizing Dynamics and Trends in Coastal Environments <i>Sorbonne Université, Nadine Le Bris -- University Pierre et Marie Curie (UPMC)</i>	6		2	A:1	150
3	C004300 Ecology of Coastal Communities <i>Sorbonne Université, François Lantoin -- University Pierre et Marie Curie (UPMC)</i>	6		2	A:1	150

### 3.1.2 Quantitative Marine Ecology (UBO) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004302 Physic-Biology Interactions <i>Université de Bretagne Occidentale, Pascal Rivière -- Université de Brest (Université de Bretagne Occidentale)</i>	4		2	A:1	100
2	C004303 Applied Hierarchical Modeling for Effective Monitoring and Conservation of Marine Megafauna: Sampling Design, Model Development and Inference <i>Université de Bretagne Occidentale, Emmanuelle Cam -- Université de Brest (Université de Bretagne Occidentale)</i>	4		2	A:1	100
3	C004304 Modelling for Quantitative Management of Marine Resources and Ecosystems <i>Université de Bretagne Occidentale, Jean-Marc Guarini -- University Pierre et Marie Curie (UPMC)</i>	6		2	A:1	150
4	C004305 Numerical Ecology: Multivariate Methods for Marine Community Ecology <i>Université de Bretagne Occidentale, Olivier Gauthier -- Université de Brest (Université de Bretagne Occidentale)</i>	4		2	A:1	100

### 3.1.3 Measuring, Analysing and Modelling Marine Ecosystems (SU) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004306 Marine Ecosystem Modelling <i>Sorbonne Université, Fabien Lombard</i>	6		2	A:1	150
2	C004307 Methods for the Exploitation of Data in Oceanography <i>Sorbonne Université, Laure Mousseau -- University Pierre et Marie Curie (UPMC)</i>	6		2	A:1	150
3	C004308 Instrumentation and Acquisition of Data in Oceanography <i>Sorbonne Université, Jean-Olivier Irsson -- University Pierre et Marie Curie (UPMC)</i>	6		2	A:1	150

### 3.2 Major Applied Marine Ecology and Conservation 18 credits

Subscribe to 1 option from the following list.

#### 3.2.1 Impact Assessment and Mitigation (SU) 18 credits

Subscribe to 18 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004309 Management and Conservation of Marine Ecosystems <i>Sorbonne Université, A. Andersen -- University Pierre et Marie Curie (UPMC)</i>	6		2	A:1	150
2	C004310 Dynamics of Marine Biodiversity and Conservation <i>Sorbonne Université, Eric Thiebaut -- University Pierre et Marie Curie (UPMC)</i>	6		2	A:1	150
3	C004311 Human-induced Impacts on Coastal Ecosystems <i>Sorbonne Université</i>	6		2	A:1	150
4	C004299 Major Challenges in Polar Oceans: from Biogeochemistry to Ecosystems <i>Sorbonne Université, Damien Cardinal</i>	6		2	A:1	150

#### 3.2.2 Applied Megafauna Conservation (GMIT) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004312 Species Distribution Modelling as a Marine Conservation Tool <i>Galway-Mayo Institute of Technology, Ian O'Connor</i>	5		2	A:1	125
2	C003924 Acoustic Monitoring as a Marine Conservation Tool <i>Galway-Mayo Institute of Technology, Jill O'Brien</i>	5		2	A:1	125
3	C004313 Seabird and Marine Mammal Population Assessment Techniques <i>Galway-Mayo Institute of Technology, Simon Berrow</i>	3		2	A:1	75
4	C004314 Animal Behaviour: Recording and Analysis <i>Galway-Mayo Institute of Technology, Martin Gammell</i>	5		2	A:1	125

#### 3.2.3 Marine Habitat Restoration (Univpm) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
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1	C004388	Marine Ecosystem Restoration: an Introduction <i>Università Politecnica delle Marche, Roberto Danovaro</i>	6	2	A:1	150
2	C004389	Restoration of Seagrasses and Algal Forests: Field Work and Practice <i>Università Politecnica delle Marche, Fabio Rindi</i>	6	2	A:1	150
3	C004390	Restoration of Hard Bottoms and Tropical Reefs: Field Work and Practice <i>Università Politecnica delle Marche, Carlo Cerrano</i>	6	2	A:1	150

### 3.3 Major Blue Biotechnology and Bioeconomy

Subscribe to 1 option from the following list.

#### 3.3.1 Biotechnology - Sustainable Exploitation of Marine Resources (UAlg) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004248 Applied Immunology <i>Universidade do Algarve, Deborah Power -- University of Algarve</i>	3		2	A:1	84
2	C004249 Genomics, Transcriptomics and Proteomics <i>Universidade do Algarve, Eduardo Melo -- University of Algarve</i>	3		2	A:1	84
3	C004250 Labs in Biotechnology <i>Universidade do Algarve, Deborah Power -- University of Algarve</i>	6		2	A:1	168
4	C004251 Sustainable Bioprospecting of Natural Products <i>Universidade do Algarve, Anabela Romano -- University of Algarve</i>	6		2	A:1	168

#### 3.3.2 Blue Growth: Unveiling New Potentials of Marine Bioresources (UCA) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004320 The Blue Growth <i>Université Côte d'Azur, Christophe Mocquet -- University Côte d'Azur</i>	6		2	A:1	150
2	C004321 Intellectual Property for Blue Innovation <i>Université Côte d'Azur, Christophe Imbert -- University Côte d'Azur</i>	6		2	A:1	150
3	C004322 Analytical Chemistry for Identification of Bioactive Marine Molecules <i>Université Côte d'Azur, Mohamed Mehiri -- University Côte d'Azur</i>	6		2	A:1	150

#### 3.3.3 Marine Biotechnology (UBO) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004459 Innovation and Entrepreneurship in Biotechnology: from Science to Business <i>Université de Bretagne Occidentale</i>	6		2	A:1	150
2	C004325 Green Biotechnology and Intelligent Mariculture <i>Université de Bretagne Occidentale, Claire Hellio -- Université de Brest (Université de Bretagne Occidentale)</i>	3		2	A:1	75
3	C004326 Biotechnological Potential of Marine Microorganisms <i>Université de Bretagne Occidentale, Gwenaelle Le Blay -- Université de Brest (Université de Bretagne Occidentale)</i>	3		2	A:1	75
4	C004327 Marine Biotechnology applied to Cosmetics and Healthcare Products Development <i>Université de Bretagne Occidentale, Cladiere Meslet -- Université de Brest (Université de Bretagne Occidentale)</i>	3		2	A:1	75
5	C004460 Bioreactor and Microalgae <i>Université de Bretagne Occidentale</i>	3		2	A:1	75

#### 3.3.4 Blue Economy and Sustainable Use of Marine Resources (UGOT) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004329 Practical Applications of Blue Economy and Sustainable Use of Marine Resources <i>University of Gothenburg, Erik Lundberg</i>	3		2	A:1	75
2	C004330 Blue Economy and Sustainable Use of Marine Resources <i>University of Gothenburg, Erik Lundberg</i>	15		2	A:1	375

### 3.4 Major Fisheries and Aquaculture

Subscribe to 1 option from the following list.

#### 3.4.1 Health Management in Aquatic Animals (UGent) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002797 Fish and Shellfish Immunology <i>Daisy Vanrompay -- Department of Animal Sciences and Aquatic Ecology</i>	4		2	A:1	120



2	I002796	Diseases in Aquaculture <i>Annelies Declercq -- Department of Animal Sciences and Aquatic Ecology</i>	6	2	A:1	180
3	I002086	Aquatic Microbial Community Management <i>Tom Defoirdt -- Department of Biotechnology</i>	3	2	A:1	75
4	C004331	Marine Mammal Health <i>Pieter Cornillie -- Department of Morphology, Imaging, Orthopedics, Rehabilitation and Nutrition</i>	5	2	A:1	125

#### 3.4.2 Ecosystem Based Fisheries Management (GMIT) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004332	Ecology of Top Predators in Marine Systems <i>Galway-Mayo Institute of Technology, Ian O'Connor</i>	5	2	A:1	125
2	C004333	Secondary Impacts of Harvest on Wild Populations and Ecosystems <i>Galway-Mayo Institute of Technology, C��il��n Minto</i>	5	2	A:1	125
3	C004334	Statistical Analysis in Population Ecology <i>Galway-Mayo Institute of Technology, C��il��n Minto</i>	5	2	A:1	125
4	C004335	Life History Strategies and Trade-offs <i>Galway-Mayo Institute of Technology, C��il��n Minto</i>	3	2	A:1	75

#### 3.4.3 Remote Sensing in Aquaculture and Fisheries (UCA) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004336	Environmental Quality & Impact Assessment <i>Universit�� C��te d'Azur, Florian Br��hin -- University C��te d'Azur</i>	6	2	A:1	150
2	C004337	Fisheries Biology, Management & Conservation <i>Universit�� C��te d'Azur, Christophe Mocquet -- University C��te d'Azur</i>	6	2	A:1	150
3	C004338	Remote Sensing for Marine Research and Innovation <i>Universit�� C��te d'Azur, Christophe Mocquet -- University C��te d'Azur</i>	6	2	A:1	150

#### 3.4.4 Food Production (UiB) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003913	Fish Nutrition <i>University of Bergen, Rune Waagbo</i>	8	2	A:1	200
2	C003912	Aquatic Food Production <i>University of Bergen, Erik Jan Lock</i>	10	2	A:1	250

### 3.5 Major Ocean Literacy and Education

Subscribe to 1 option from the following list.

#### 3.5.1 Sea and Society (UGOT) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004339	The Sea and Society Relationship; Historical Perspectives, Present Status and Future Challenges <i>University of Gothenburg, Per Moksnes</i>	15	2	A:1	375
2	C004340	Practical Applications of Relating Sea and Society <i>University of Gothenburg, Per Moksnes</i>	3	2	A:1	75

#### 3.5.2 Ocean Literacy (UniOvi) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004246	Current Topics in Marine Literacy <i>Universidad de Oviedo, Eva Garc��a Vazquez -- University of Oviedo</i>	9	2		225
2	C004247	Practicum in Ocean Literacy <i>Universidad de Oviedo, Yaisel Juan Borrell Pichs -- University of Oviedo</i>	9	2		225

#### 3.5.3 Marine Education and Literacy (SU) 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004341	Ocean Literacy Principles <i>Sorbonne Universit��, Lars Stemmann -- University Pierre et Marie Curie (UPMC)</i>	6	2	A:1	150
2	C004342	Training and Education in Marine Sciences <i>Sorbonne Universit��, Luana Da Costa Monteiro -- Department of Biology</i>	6	2	A:1	150
3	C004343	Applied Marine Communication and Outreach <i>Sorbonne Universit��, Lars Stemmann -- University Pierre et Marie Curie (UPMC)</i>	6	2	A:1	150



Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003935 Master's Dissertation <i>Luana Da Costa Monteiro -- Department of Biology</i>	30		2	A:2	750

#### 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