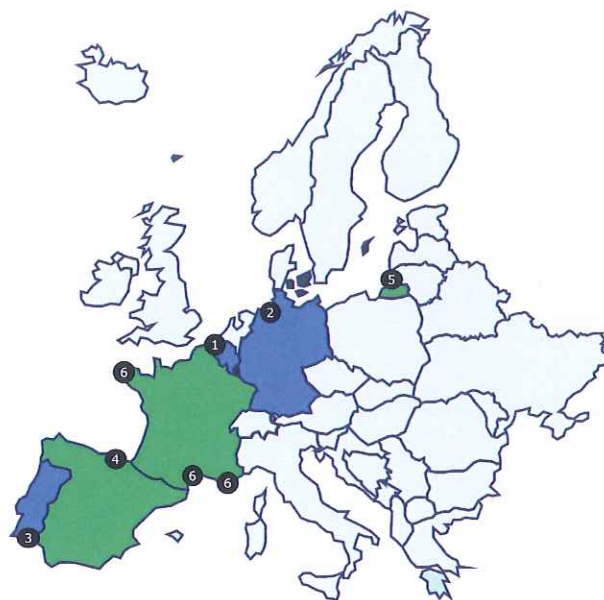




*"Awareness of the prime importance of our oceans and seas is growing, as is the need to preserve them and exploit them sustainably."*

EU-Green Paper, COM (2009)



## Master of Science in Marine Biodiversity and Conservation

<http://embc.marbef.org>



**EMBC secretariat**



Dr. T. Deprez,  
Krijgslaan 281 / S8  
B-9000 GENT,  
Belgium

- International Joint Master (in English)
- 6 Universities: Gent (BE), Algarve (PT), Bremen (DE), Paris (FR), Oviedo (ES), Klaipėda (LT)
- Erasmus Mundus Mobility: study in at least 2 countries
- Study Grants for EU and Non-EU students
- Summer schools
- Fieldwork
- Language trainings
- Thesis mobility





# A unique international Master programme (120 ECTS)

EMBC is strongly oriented to the fundamental understanding of the structure and function of marine biodiversity, the acquisition of several kinds of tools required for understanding the complexity of biodiversity patterns and processes and finally to the application of this knowledge for nature conservation and restoration.

## A SELECTION OF COURSES :

### Year 1



#### Ghent University (BE)

- Oceanography
- Biogeochemical Cycles
- Evolution and Biogeography of Aquatic Organisms
- Biodiversity of Aquatic Food webs
- Biodiversity of Marine Micro-organisms
- Margin Systems and Extreme Environments
- Ecology of Coastal Seas
- Fisheries
- Aquaculture
- Practical Taxonomy: Principles & Techniques
- Data and Information Management
- Biostatistics: Experimental Design & Multivariate Analysis
- Environmental Impact Assessment
- Internship
- Preparation of Research Proposal
- Language courses: Dutch, English, French, Spanish

60 ECTS



#### University Pierre & Marie Curie (FR)

- Phytoplankton Evolution and Biogeochemistry
- Nutrient Dynamics and Pelagic Foodwebs
- Functioning of Tidal Littoral and Coastal Ecosystems
- Functioning of Coastal Mediterranean Ecosystems
- Response of Pelagic Ecosystems to Climate and Environmental changes
- Modelling of Marine Environments
- Geographic Information Systems and Remote Sensing
- Marine Environmental Genomics
- Modelling Applications and Marine Conservation
- Language courses

30 ECTS



#### University of Klaipėda (LT)

- Coastal Ecology
- Ecology of Marine Landscapes and Habitats
- Ecology of Fresh and Brackish Waters
- Environmental Impact Assessment
- Pollution Prevention of Marine Ecosystems
- Spatial Analysis of Coastal Lands
- Mathematical Models in Ecology
- Productivity of Marine Ecosystem
- Fishery Biology and Aquaculture
- Coastal Zone Management
- Preparation of Research Proposal
- Language courses

30 ECTS



#### Bremen University (DE)

- Physical Oceanography
- Marine Biogeochemistry
- Marine Geosciences
- Marine Algae and Associated Animals
- Ecophysiology of Marine Animals
- Ecophysiology of Marine Algae
- Marine Microbiology
- Benthos and Fish Ecology
- Fisheries Biology and Aquaculture
- GIS applied to Coastal Management
- Plankton Ecology
- International Marine Environmental Protection
- Marine Ecotoxicology
- Modelling in Conservation Biology
- Preparation of Research Proposal
- Scientific Communication
- Language teaching

60 ECTS



#### University of Oviedo (ES)

- Population Biology Applied to Conservation
- Global Change
- Biodiversity of Marine Food Webs
- Impact Detection and Assessment
- Ecological Modelling
- Geographic Information Systems and Teledetection
- Bio-indicators as Tools to Assess Environmental Pollution
- Marine Protected Areas
- Biological Invasions
- Integrated Coastal Zone Management
- Language courses

30 ECTS



#### Algarve University (PT)

- Biogeochemical Processes and Global Change
- Aquatic Microbial Ecology
- Ecophysiology of Marine Plants
- Ecophysiology of Marine Animals
- Fish Chemical Ecology and Behaviour
- Ecology and Behaviour of Marine Mammals
- Marine Population Biology
- Bio-Informatics and Data Mining
- Habitat Seabed Mapping
- Techniques in Molecular and Cellular Biology
- Marine Protected Areas
- Stock Assessment
- Conservation and Management of Marine Resources
- Estuarine and Coastal Ecohydrology
- Language teaching
- Diving courses

60 ECTS



#### Thesis work

- In any of the EMBC universities
- In associated marine research institutes
- Guidelines on :

<http://embc.marbef.org/index.asp?p=370&a=370>

30 ECTS

#### Apply for grants :

yearly between September 15<sup>th</sup> and January 1<sup>st</sup>!

#### Apply on a self-paying basis :

yearly between September 15<sup>th</sup> and May 15<sup>th</sup>!

<http://embc.marbef.org>



#### Joint Summer School

- 2009 : Poland (Hel)
- 2010 : Malta
- 2011 : Ireland (Galway)

6 ECTS