

## Introduction to Marine and Lacustrine Biology (C002485)

Due to Covid 19, the education and assessment methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

**Course size** *(nominal values; actual values may depend on programme)*

**Credits 3.0**

**Study time 90 h**

**Contact hrs**

30.0h

**Course offerings and teaching methods in academic year 2021-2022**

A (semester 1)

English

Gent

lecture

25.0h

excursion

5.0h

**Lecturers in academic year 2021-2022**

De Troch, Marleen

WE11

lecturer-in-charge

De Clerck, Olivier

WE11

co-lecturer

N., N.

co-lecturer

**Offered in the following programmes in 2021-2022**

**crdts**

**offering**

[Master of Science in Marine and Lacustrine Science and Management](#)

3

A

**Teaching languages**

English

**Keywords**

Algae, seagrasses, mangroves, invertebrates, vertebrates, phyto- and zooplankton, phyto- and zoobenthos

**Position of the course**

To convey to non-biology students an insight in all marine organisms (systematics, morphology and ecology) living in marine and lacustrine biotopes

**Contents**

This course will give an overview of the organisms present in marine and lacustrine biotopes with emphasis on the typical adaptations related to the environment. The following topics will be introduced and discussed:

- Diversity of photosynthetic organisms (Cyanobacteria, photosynthetic protists, macroalgae, mangroves and seagrasses)
- Organisms of the sea: plankton versus nekton
- Processes in the open sea
- Organisms of the sea bed
- The diversity of benthic marine invertebrates
- Seaweeds, seagrasses, and benthic organisms
- Benthic life habits

**Initial competences**

Basic knowledge in biology

**Final competences**

- 1 To get knowledge on the biology of marine and lacustrine organisms.
- 2 To understand ecological processes in these environments.

**Conditions for credit contract**

Access to this course unit via a credit contract is determined after successful competences assessment

**Conditions for exam contract**

This course unit cannot be taken via an exam contract

**Teaching methods**

Excursion, Lecture

**Extra information on the teaching methods**

Classroom lectures are followed by brief interactive discussions. The practical part of the course consists of a guided excursion to a diverse coastal system (e.g. the North coast of France, Westerscheldt estuary) and/or a visit to the algae collection.

remark: due to COVID19 on campus lectures can be replaced by online alternatives

**Learning materials and price**

all slides are online available on Ufora. handbooks (not compulsory): Graham Linda & Wilcox Lee (Algae) and Dawson Yale (Marine Botany); Levinton J.S. (Marine Biology, Function, Biodiversity, Ecology)

**References**

Graham Linda & Wilcox Lee (Algae) and Dawson Yale (Marine Botany); Levinton J.S. (Marine Biology, Function, Biodiversity, Ecology)

**Course content-related study coaching**

Opportunity for questioning the lecturers during and after the classes, and outside these via email, personal contact and via Ufora.

**Assessment moments**

end-of-term assessment

**Examination methods in case of periodic assessment during the first examination period**

Oral examination

**Examination methods in case of periodic assessment during the second examination period**

Oral examination

**Examination methods in case of permanent assessment****Possibilities of retake in case of permanent assessment**

not applicable

**Extra information on the examination methods**

Oral examination with written preparation. There are typically 2-4 questions for each part (botany, zoology). The questions seek an equilibrium between knowledge and understanding.

**Calculation of the examination mark**

The final score is calculated on a 50/50 basis for both parts (Botany, Zoology).

Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.

ILO 1,2