Course Specifications
Valid as from the academic year 2020-2021

Introduction to Marine and Lacustrine Biology (C002485)

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

Lecturers in academic year 2020-2021
De Troch, Marleen
WE11 lecturer-in-charge
De Clerck, Olivier
WE11 co-lecturer

Offered in the following programmes in 2020-2021
Master of Science in Marine and Lacustrine Science and Management

Course size
(nominal values; actual values may depend on programme)
Credits 3.0
Study time 90 h
Contact hrs 30.0 h

Course offerings and teaching methods in academic year 2020-2021
A (semester 1)
English lecture 25.0 h
Gent excursion 5.0 h

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

Teaching languages
English

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Teaching methods
Excursion, lecture

(Proposal)
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.

Evaluation methods

end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period

Oral examination

Examination methods in case of periodic evaluation during the second examination period

Oral examination

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation

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.

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