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
  - 3 crdts
  - A offering

<table>
<thead>
<tr>
<th>Course size</th>
<th>Credits</th>
<th>Study time</th>
<th>Contact hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>(nominal values; actual values may depend on programme)</td>
<td>3.0</td>
<td>90 h</td>
<td>30.0 h</td>
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</tbody>
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Course offerings and teaching methods in academic year 2020-2021

<table>
<thead>
<tr>
<th>A (semester 1)</th>
<th>English</th>
<th>UGent</th>
<th>on campus lecture</th>
<th>25.0 h</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>excursion</td>
<td>5.0 h</td>
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</tbody>
</table>

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, on campus 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.

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.
  ILO 1,2