Course Specifications
Valid as from the academic year 2020-2021

Integrated Limnological Field Course (C003355)

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.

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

<table>
<thead>
<tr>
<th>Credits</th>
<th>Study time</th>
<th>Contact hrs</th>
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<tbody>
<tr>
<td>3.0</td>
<td>90 h</td>
<td>45.0 h</td>
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Course offerings and teaching methods in academic year 2020-2021

A (semester 2) English Gent

- fieldwork: 30.0 h
- group work: 10.0 h
- lecture: 5.0 h

Lecturers in academic year 2020-2021

- De Batist, Marc WE13 lecturer-in-charge
- Verschuren, Dirk WE11 co-lecturer
- Vyverman, Wim WE11 co-lecturer

Offered in the following programmes in 2020-2021

<p>| Master of Science in Marine and Lacustrine Science and Management |</p>
<table>
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<tr>
<th>crdts</th>
<th>offering</th>
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<tbody>
<tr>
<td>3</td>
<td>A</td>
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Teaching languages

English

Keywords

Field measurements, observations, data collection (on lakes), lab analyses

Position of the course

The main objective is to convey the philosophy behind and the main practices for conducting field work on lakes, with practical hands-on introduction to the main field techniques, experiments, data acquisition and processing. The final aim is to provide the students with an insight in ecological, geological, physical, and chemical processes in lakes by means of observations, analysis and experiments in the field and in the lab. This field course usually takes place during the last week of June. Due to logistic and housing constraints max. 14 students can be enrolled in this course. Students will be selected (if required) based on a motivation letter to be submitted in early spring.

Contents

An introduction will be given on the environmental, geological and morphological characteristics and history. Examples will be shown from exploration and measurements in the field in order to identify the specific environment. The students will go in the field to perform observations, to conduct field experiments and to collect field samples. Subsequently, the collected data will be analysed in the lab and interpreted in small groups, through which the different aspects of biosphere or geosphere processes in lakes will be studied and illustrated.

Initial competences

Insight in the most important limnological processes. Basis knowledge in physical and chemical limnology, ecology and geology.

Final competences

1. Be able to set up an optimal sampling strategy and experimental design to investigate the geological, ecological and biological status of a lake system and to carry out research autonomously.
2. Be able to collect and analyse geological samples from lakes, integrating geological time, evolution of climate through time and interactions between geosphere and biosphere.
3. Be able to identify fauna and flora based on identification guides.

(Contact hrs)

Study time 90 h Contact hrs 45.0 h
4 Be able to analyse the data obtained with the appropriate tools (e.g. statistical analysis) and critically discuss and report the results (both written and oral).

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
- Group work, lecture, fieldwork

Extra information on the teaching methods
- Introductory lecture, field work, lab analysis and data processing in group.
- Teaching methods may need to be adjusted, should the COVID19 situation demand this.

Learning materials and price
- Cost: 250.0 EUR
- field guides

References
- Course material (lecture sides, recent scientific literature) is provided by the lecturers (either in printed or electronic form).

Course content-related study coaching
- Guidance in the field and the lab

Evaluation methods
- continuous assessment

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

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

Examination methods in case of permanent evaluation
- Participation, assignment, report

Possibilities of retake in case of permanent evaluation
- examination during the second examination period is possible

Extra information on the examination methods
- Students who eschew the non-periodical evaluation cannot pass for the course.
- For the second examination period, the student will be given a special assignment on topics discussed during the field trips.

Calculation of the examination mark
- Evaluation of individual or team report + presentation of the report at the end of the field trip; Evaluation of motivation and degree of participation during the field trip.