

GUIDED PRACTICAL EXERCISES: 5 h

During two sessions, the students get in contact with international river systems (Mekong, Amazon, Nile, ...), large lakes (Victoria, Tonle Sap, ...), as well as Flemish water systems such as The Scheldt and large stagnant waters. The objective of these guided questions is to make students familiar with the application of the theory, especially concerning the effects of wastewater discharges, nutrient enrichment, invasions and hydropower. After a short introduction of the systems and explaining the questions, the student can individually prepare answers, that serve as a basis for a plenary discussion to solve the questions.

EXCURSION: 5 h During the field excursion, several freshwater ecosystems are visited and discussed. The objective of these visits and discussions is to prepare students via insight questions for the exam. In particular, the identification of components and processes is trained during the excursion.

Initial competences

Basic ecological knowledge concerning components and processes of ecosystems:
the student can define, explain and identify key-processes and concepts of ecosystems

Final competences

- 1 Define and explain key terminology and concepts of freshwater ecosystems
- 2 Systematically analyze freshwater ecosystems concerning the composition and major processes
- 3 Optimize the exploitation of freshwater ecosystems (drinking water production, fisheries, aquaculture, wastewater treatment, ...) in a context of sustainability
- 4 Develop and defend a vision in a discussion related to the exploitation and/or disturbance of a particular freshwater ecosystem (pool, wetland, lake or river)
- 5 Identify the major components and processes of natural and exploited freshwater ecosystems in the field (or in pictures and videos)

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

Lecture: plenary exercises, Excursion, Lecture, Seminar: coached exercises

Learning materials and price

All materials are available via digital learning environment (slides with text of the theory classes, as well as additional publications of the Web of Science.)

References

Diverse academic books and publications

Course content-related study coaching

Assessment moments

end-of-term assessment

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

Written examination

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

Written examination

Examination methods in case of permanent assessment

Possibilities of retake in case of permanent assessment

not applicable

Extra information on the examination methods

Written examination, consisting of concise knowledge related questions, summarizing text of part of the course, insight questions and application questions.

Calculation of the examination mark

The score is merely calculated on the basis of the written exam.