Faculty of Science

BIOR82, Biology: Aquatic Ecology, 15 credits

Biologi: Akvatisk ekologi, 15 högskolepoäng

Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2016-10-03 to be valid from 2016-10-03, autumn semester 2017.

General Information

The course is an elective course for a degree of Master of Science in Biology.

Language of instruction: English

Main field of studies	*Depth of study relative to the degree requirements*
Biology	A1F, Second cycle, has second-cycle course/s as entry requirements

Learning outcomes

Knowledge and understanding

On completion of the course the student shall be able to:

- account for basic scientific theory and methodology such as inductive and hypothetical-deductive methods and hypothesis testing
- account for advanced theory and investigation methodology in aquatic ecology

Competence and skills

On completion of the course the student shall be able to:

- use relevant databases and carry out subject-related searches
- collect and compile written information

- present scientific theories and studies, with scientific structure and in a scientific language, orally and in writing
- independently plan and carry out projects to answer issues in aquatic ecology

Judgement and approach

On completion of the course the student shall be able to:

- evaluate written information and scientific articles in aquatic ecology
- discuss and argue about requirements for work and research in aquatic ecology

Course content

The course starts with a scientific methodology part. Thereafter, theory and working methodology within those fields of aquatic ecology (limnology, marine ecology), which are represented by current research at the Aquatic Ecology Unit, Department of Biology, Lund University, are studied.

Strong emphasis is put on the study, review and assessment of scientific articles, and a large part of the course is also devoted to laboratory sessions and exercises. Through a synthesis of practical and theoretical experiences and an advanced theoretical analysis, the students achieve a deeper knowledge and understanding about current issues within limnology and marine ecology, and they are trained to critically interpret data. An individual literature project is included in the course.

During the course, the students are trained in oral and written presentation in connection to seminars, debate and a literature project.

Course design

The teaching consists of lectures, exercises, seminars, laboratory sessions and projects. Participation in exercises, seminars, laboratory sessions and project work, as well as associated parts, is compulsory.

Assessment

Examination takes place continuously during the course through oral and written presentations and participation in seminar discussions.

For students who have not passed the regular examinations, additional examinations in close connection to these are offered.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, Pass, Pass with distinction.
To pass the entire course, approved oral and written presentations, approved literature project, and approved participation in compulsory parts, are required.

The final grade is decided through a weighing of the results of the parts that are included in the examination.

Entry requirements

For admission to the course, knowledge corresponding to BIOC02 Ecology 15 credits, and either BIOR17 Limnology 15 credits, or BIOR65 Marine Ecology 15 credits, is required. A degree of Bachelor of Science. English 6/English B.

Further information

The course may not be included in a degree together with BIOR68 Aquatic Ecology 15 credits.

Subcourses in BIOR82, Biology: Aquatic Ecology

Applies from H17

1601 Exercises and Assignments, 10,0 hp
Grading scale: Fail, Pass, Pass with distinction
1602 Literature Project, 5,0 hp
Grading scale: Fail, Pass, Pass with distinction