

## **BIOR68, Biology: Aquatic Ecology, 15 credits**

*Biologi: Akvatisk ekologi, 15 högskolepoäng*

Second Cycle / Avancerad nivå

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### **Details of approval**

The syllabus was approved by Study programmes board, Faculty of Science on 2011-03-31 and was last revised on 2015-01-19. The revised syllabus applies from 2015-01-19, spring semester 2015.

### **General Information**

The course is an optional second-cycle course for a degree of Bachelor or Master of Science in Biology. The language of instruction is English.

*Language of instruction:* English

### **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:

- utilise different reference databases and master subject-related searches, and gather, summarise, and evaluate written information
- present scientific theories and studies, both orally and in a written report, with scientific structure and in a scientific language
- work independently within aquatic ecology

## Judgement and approach

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

- discuss and argue about requirements for work and research in aquatic ecology

## Course content

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

Strong emphasis lies 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 course provides deep knowledge and understanding about the current issues within limnology and marine ecology, and the ability to critically interpret data is exercised. An individual extensive literature project is included in the course.

During the course, the students are trained in oral and written presentation, partly at seminars and in a debate, and partly through the individual literature project.

## Course design

The teaching consists of lectures, exercises, seminars, laboratory sessions and projects. Participation in exercises, seminars, laboratory sessions and projects 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 during 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 report, and participation in all 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, 105 credits of scientific studies including knowledge corresponding to BIOC02 Ecology 15 credits, and BIOR17 Limnology 15 credits, or BIOR65 Marine Ecology 15 credits, and English 6/English B, are required.

### **Further information**

The course may not be included in a degree together with BIOR36 Aquatic Ecology 15 credits.

## Subcourses in BIOR68, Biology: Aquatic Ecology

Applies from V14

- 1111 Exercises and Assignments, 10,0 hp  
Grading scale: Fail, Pass, Pass with distinction
- 1112 Litterature Project, 5,0 hp  
Grading scale: Fail, Pass, Pass with distinction

Applies from V11

- 1101 Aquatic Ecology, 15,0 hp  
Grading scale: Fail, Pass, Pass with distinction