



**LUND**  
UNIVERSITY

Faculty of Science

## **BIOR66, Water Management, 15 credits**

*Vattenvård, 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 2011-02-03 and was last revised on 2015-03-31. The revised syllabus applies from 2015-07-01, autumn semester 2015.

### **General Information**

The course is an optional second-cycle course for a degree of Bachelor or Master of Science in Biology. The course is also offered as a single subject course. 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 the fundamental features of the EU water directive and its regulatory framework
- describe how the EU water directive is implemented at municipality and county administrative board level
- account for the overall view on water management and restoration, including potential problems with different stakeholders

#### **Competence and skills**

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

- plan and carry out independent work in water management
- search and compile relevant information from different sources

- apply knowledge in water management in professional situations

### **Judgement and approach**

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

- evaluate and assess information from different sources
- argue for consideration to multiple stakeholders in water management issues

### **Course content**

The course starts with a part about the EU water directive, with a study visit at the county administrative board in Skåne to learn how it is implemented. After that, general processes in water are studied, such as water treatment, pollutants, acidification, eutrophication, and the effects of humic substances. The next part of the course has both theoretical and practical elements and deals with the administration of water, biomanipulation of lakes, management of fish and crayfish, wetland construction for nutrient reduction, and lake, river, and coastal marine restoration. During the practical parts, GIS is used for map material and investigations. During the course, an individual literature project is conducted. The course ends with a two week group project, where the content of the course is applied on realistic water management cases.

### **Course design**

The teaching consists of lectures, exercises, seminars, study visits, and projects. Participation in exercises, seminars, study visits, projects, and thereby integrated teaching, is compulsory.

### **Assessment**

Examination takes place continuously during the course through compulsory parts including oral and written presentations, participating in discussions at seminars, individual literature project, and through a written examination.

For students who have not passed the regular examination, an additional examination occasion in close connection to this is 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 examination and approved 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 Science studies including a course corresponding to BIOC02 Ecology 15 credits, and English 6, are required.

### **Further information**

The course may not be included in a degree together with BIO787 Biology: Fresh Water Management 15 credits, or BIOR33 Biology: Water Management 15 credits.

## Subcourses in BIOR66, Water Management

Applies from V11

1101 Water Management, 15,0 hp  
Grading scale: Fail, Pass, Pass with distinction