



## Course syllabus

Faculty of Health and Life Sciences  
Department of Biology and Environmental Science

2BI009 Fiskekologi, 7,5 högskolepoäng  
Fish Ecology, 7.5 credits

**Main field of study**

Biology

**Subject Group**

Biology

**Level of classification**

First Level

**Progression**

G2F

**Date of Ratification**

Approved 2010-03-17

Revised 2014-12-02 by Faculty of Health and Life Sciences.

The course syllabus is valid from autumn semester 2015

**Prerequisites**

Biology 60 credits, incl. Ecology 15 credits, or corresponding course qualifications.

### Objectives

Students are upon completion of the course expected to be able to:

- account for habitat use over the life cycle in economically and ecologically important fish species in the Baltic Sea and its drainage basin
- account for the importance of predation, competition, and trophic interactions for population dynamics
- perform standard fish ecology samplings and evaluate the results
- make estimates of population sizes using basic statistical methods
- plan and carry out studies individually, addressing issues in fish ecology and communicate the results both orally and in text

## Content

The course is divided in two parts:

### ***Module 1 Ecological theory 4 credits***

- Life cycles and life history traits
- Behavioural ecology
- Migration, dispersal and distribution
- Populations, theory and practical applications

### ***Module 2 Project work and practical assignments 3.5 credits***

- Fish population estimates, standardised gill net fishing, fish diet, simple statistical methods
- Project, specify the research question and plan the project, collect and analyse data, explore results and draw conclusions, oral and written presentation

## Type of Instruction

Lectures, field- and laboratory exercises. Individual project work.

The participation in practical exercises and assignments is mandatory.

## Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

Examination of Part 1 based on a project work. Part 1 is assessed with the grades U, G and VG.

Part 2 is examined by evaluation of laboratory- and field assignments, by oral and written presentations of the project work. Part 2 is assessed with the grades U and G.

Assessment of whole course is determined by Part 1 when all assignments, including project work, and mandatory activities are fulfilled.

Examination criteria to pass the course are defined by the objectives.

## Course Evaluation

Upon completion, the course will be evaluated by filling out the evaluation form. The result of the individual evaluations are turned into a summary report that will be kept in the department administrative archives. The outcome of the evaluation of the previous year, as well as possible measures taken, will be discussed with the individual responsible for the educational program, as well as with incoming students at the start of the next course.

## Required Reading and Additional Study Material

### **Mandatory literature**

Wootton, R. J. 1998. *Ecology of teleost fish*. Kluwer Academic, Dordrecht. 386pp. ISBN:0-412-64200-X

Identification literature and a compendium with instructions for field- and laboratory assignments will be provided during the course.