



Syllabus

BI1270.1 Principles of Fisheries Science, 15.0 credits

Principer för fiskerivetenskap

The course is given EnvEuro - European Master in Environmental Science

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

16 December 2015

The version applies to students admitted from spring 2016

The version is not a module version

Subjects

Biology/Environmental science

Education cycle

Second cycle

Modules

Title	Code	Credits
Single module	0101	15.0

Advanced study in the main field

Second cycle, only first-cycle courses as entry requirements (A1N)

Grading scale

5:Pass with Distinction, 4:Pass with Credit, 3:Pass, U:Fail

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

Equivalent to 120 credits including 60 credits in one of the following subjects: Biology, Agricultural Science, Soil Science, Geo Science, Environmental Science, Forest Science, or Technology.

Knowledge corresponding to at least 20 credits in Biology, including 10 credits in Ecology. English language proficiency demonstrated as English 6 (Swedish secondary school) or equivalent.

Objectives

The course aims at training the students in the principles of fisheries science building on the core idea of a 'cycle' which starts from sustainable management to identify knowledge needs and bring back to advice and ecological evaluation of management actions. After completing the course, the students should be able to:

1. Describe aspects of fish biology and fish life history traits relevant for fish population dynamics
2. Explain the main ecological responses of fish populations to environmental and climate variability
3. Describe direct and indirect impacts of fisheries on fish populations and exploited food-webs
4. Apply and relate the main phases of the assessment of aquatic resources (ie, data collection, analysis and scientific advice) to the management of sustainable fisheries)

Content

The course has two primary objectives: to teach fisheries science, from the study of fish life history traits to the assessment of fish stocks, and to illuminate their links to the scientific advice for the management of sustainable fisheries. The course is structured in seven modules: i) introduction to fisheries management processes, ii) biological units for conservation and management, iii) fish life history traits and collection of biological data, iv) targeting, selectivity and fisheries behaviour, v) ecosystem dynamics, biodiversity and fishery oceanography, vi) stock assessment methods and advice for management, (vii) ecosystem-based advice for the management of fisheries and aquatic ecosystems.

Formats and requirements for examination

Complete and approved project work and assignments. Active participation in at least 80% of the compulsory laboratory work.

- If the student fails a test, the examiner may give the student a supplementary assignment, provided this is possible and there is reason to do so.
- If the student has been granted special educational support because of a disability, the examiner has the right to offer the student an adapted test, or provide an alternative assessment.
- If changes are made to this course syllabus, or if the course is closed, SLU shall decide on transitional rules for examination of students admitted under this syllabus but who have not yet passed the course.
- For the examination of a degree project (independent project), the examiner may also allow the student to add supplemental information after the deadline. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Additional information

- The right to take part in teaching and/or supervision only applies to the course date to which the student has been admitted and registered on.
- If there are special reasons, the student may take part in course components that require compulsory attendance at a later date. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Responsible department

Department of Aquatic Resources

Supplementary Information

Finalized by: Programnämnden för utbildning inom naturresurser och jordbruk (PN - NJ)

Biology Area: Ecology