



BI1341, Principles of Fisheries Science, 15.0

Hp

Syllabus

Finalized by: PN - NJ, 2018-11-26

Valid from: HT2019

Level within study regulation:

Second cycle

Main field of study:

Biology

Progressive specialisation:

AIN Second cycle, has only first-cycle course/s as entry requirements

Subject:

- Biology
- Environmental Science

Additional subject:

- Environmental Science

Biology area:

Other Biology Courses

Grading scale:

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

Course language:

English

Entry requirements:

Equivalent to 120 credits including 60 credits in Natural Science or Technology. Knowledge corresponding to at least 20 credits in Biology, including 7.5 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.

Modes of assessment:

Complete and approved project work and assignments. Active participation in at least 80% of the compulsory laboratory work. - If a student has failed an examination, the examiner has the right to issue supplementary assignments. This applies if it is possible and there are grounds to do so.

- The examiner can provide an adapted assessment to students entitled to study support for students with disabilities following a decision by the university. Examiners may also issue an adapted examination or provide an alternative way for the students to take the exam.
- If this syllabus is withdrawn, SLU may introduce transitional provisions for examining students admitted based on this syllabus and who have not yet passed the course.
- For the assessment of an independent project (degree project), the examiner may also allow a student to add supplemental information after the deadline for submission. Read more in the Education Planning and Administration Handbook.

Organisation:

Department of Aquatic Resources

Supplementary information

Linked to programme:

- NM025
- NM028

Module set:

- Single module, 15.0 hp

Other information:

- The right to participate in teaching and/or supervision only applies for the course instance the student was admitted to and registered on.
- If there are special reasons, students are entitled to participate in components with compulsory attendance when the course is given again. Read more in the Education Planning and Administration Handbook.