



DEPARTMENT OF MARINE SCIENCES

BIO267 Marine Biodiversity, 15 credits

Marin biodiversitet, 15 högskolepoäng

First Cycle

Confirmation

This course syllabus was confirmed by Department of Marine Sciences on 2017-11-27 and was last revised on 2019-12-16 to be valid from 2020-03-26, spring semester of 2020.

Field of education: Science 100%

Department: Department of Marine Sciences

Position in the educational system

The course can be part of the following programmes: 1) Marine Science, Bachelor's Programme (N1MAV), 2) Marine Science, Master's Programme (N2MAV), 3) Bachelor's Programme in Biology (N1BIO), 4) Bachelor of Science in Environmental Science (N1MVN) and 5) Biology, Master's Programme (N2BIO)

Main field of studies

Biology

Specialization

G2F, First cycle, has at least 60 credits in first-cycle course/s as entry requirements

Entry requirements

1) Courses in Cell Biology (15 credits), Molecular Genetics (15 credits), Biological form and function (15 credits), Ecology and evolution (15 credits) and Biodiversity and systematics, basic course (15 credits). At least 60 of 75 credits must be graded passed.

2) Courses on first and the second year on a Bachelor's programme in Marine science. At least 90 of 120 credits must be passed.

3)

Learning outcomes

The course intends to supplement and deepen knowledge in the taxonomy of marine

organisms. After having completed the course, the student is expected to be able to:

Knowledge and understanding

- identify appropriate taxonomic literature that can be used for identification of marine organisms
- give an account of basic knowledge in taxonomic theory
- describe the distinctive features of the larger organism groups

Competence and skills

- use appropriate taxonomic literature for identification of marine organisms
- identify and name the more common marine organisms in Swedish water

Judgement and approach

- decide which organisms are found in different environments
- apply different methods for collection of marine organisms for taxonomic identification

Course content

The course provides knowledge of collection and identification of marine animals and plants and about the biotopes they live in. The course gives an introduction to the common species in Swedish water, and to identification literature and nomenclature for the different organism groups and is divided into five modules that cover marine benthic invertebrates (7.5 credits), zooplankton (2 credits), macro algae (2 credits), microalgae (2 credits) and fish (1.5 credits). The grading scale for each test is Pass (G) or Fail (U). It is an applied course with much field and laboratory work. Basic taxonomic theory will also be presented (phylogeny and nomenclature).

Form of teaching

The teaching consists of lectures, laboratory sessions, field trips and field studies. Active attendance in laboratory sessions, field trips and field work are compulsory.

Language of instruction:

Swedish or English.

Assessment

Examination takes place via active attendance in laboratory sessions, field trips and field work and through five tests (benthic invertebrates, microalgae, macro algae, zooplankton and fish) where the students may identify a number of organisms. In the tests, it can also be included theoretical questions that have been brought up on lectures.

For students who have not passed the regular examination, additional examination sessions are offered. Possibilities to supplement failed compulsory compulsory components are limited and are determined in consultation with course coordinator.

If a student, who has been failed on the same examining course component twice, requests a change of examiner before the next examination session, a request of this kind must be sent in writing to the department responsible for the course, and granted, unless there are special reasons to the contrary (Chapter 6, Section 22, Higher Education Ordinance).

In the event that a course has ceased or undergone major changes, the student shall be guaranteed access to at least three examination opportunities (including the regular examination opportunity) during a period of at least one year, but at the most two years after the course has ceased or undergone major changes.

Grades

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).

For grade Pass, completed laboratory sessions, field trips and field work and that all tests are passed are required. The grading scale on each test is Pass (G, 60 %) or Fail (U, below 60 %).

For grade Pass with distinction, completed laboratory sessions, field trips and field work are required and Pass with distinction on an average of the merged point value of the tests. The grading scale is Pass with distinction (VG, 85 %), Pass (G, 60-85 %) or Fail (U, below 60 %).

Concerning application of the ECTS scale for grade please see the decision of Vice-chancellor 28/05/2007, dnr G 8 1976/07 and 28/02/2011, dnr O 2009/05545.

Course evaluation

A written and/or oral course evaluation is made at the end of the course.

The results of and possible changes to the course will be shared with the students who participated in the evaluation and students who are starting the course.

Additional information

Travels on and off and stay on field station and research vessel for education lead to a cost for the student.

BIO267 replaces the courses BIN180, BIO265 and BIO266. None of these courses may be included at the same time in a qualification or be included in each qualification there one is based on the other.