



DEPARTMENT OF MARINE SCIENCES

MAR303 Bachelor's degree project in Marine Science: Major in Chemistry, 15 credits

Examensarbete i Marin vetenskap - inriktning kemi, 15 högskolepoäng
First Cycle

Confirmation

This course syllabus was confirmed by Department of Chemistry and Molecular Biology on 2014-02-17 and was last revised on 2023-04-20 by Department of Marine Sciences to be valid from 2023-05-01, spring semester of 2023.

Field of education: Science 100%

Department: Department of Marine Sciences

Position in the educational system

The course is a degree project course for a bachelor's degree in marine science and chemistry.

The course can be part of the following programme: 1) Marine Science, Bachelor's Programme (N1MAV)

Main field of studies

Chemistry

Marine Sciences

Specialization

G2E, First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree project for BA/BSc

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Entry requirements

Alternative 1: Completed courses MAV101-MAV113, of which at least 90 credits should be completed and passed courses. Furthermore, courses in chemistry (30 credits) including Biogeochemical cycles in the sea, (MAR210, 15 credits) is required.

Alternative 2: 120 credits passed courses in natural sciences of which the following

courses must be included: Introduction to oceanography (OC0310), Water studies (OC0610), Basic chemistry 1 and 2 (KEM011 and KEM021), Marine Chemistry 1 (KEM311) and Ecology and evolution (BIO120) or equivalent. Furthermore, completed course is required Biogeochemical cycles in the sea, MAR210.

Learning outcomes

After having completed the course, the student is expected to:

Knowledge and understanding

- demonstrate theoretical knowledge in the subject area of the chosen degree project
- demonstrate knowledge in scientific methodology and relate this knowledge to the current degree project
- explain the theoretical background of a problem in the project field

Competence and skills

- independently plan and carry out a theoretical or experimental study
- carry out the assignment within given time frames
- demonstrate the ability to present and discuss acquired information and data in writing as well as orally

Judgement and approach

- search, critically evaluate and interpret relevant information for the work

Course content

The student carries out and presents an independent research project in marine science focusing on marine biology.

The assignment can be:

- an experimental work or
- an analysis and evaluation of scientific data
- critical literature survey built on original works

The degree project can take place at the Department of marine sciences, at other department in the subject area, or externally at companies, institutes or public authority and is supervised of a scientifically educated researcher.

The final work is presented in writing in the form of a scientific report and through an oral presentation.

Form of teaching

The work should result in an scientific report in Swedish or English and a summary about no more than one A4 side on the opposite language. The work is presented orally at a seminar. A scientifically trained supervisor is available for guidance during the work.

The degree project may be carried out in Gothenburg or be partly located at a research station for Marine Sciences (Tjärnö and/or Kristineberg) or at other departments outside the University where relevant activities are carried out.

Language of instruction: Swedish and/or English.

Assessment

The student's achievements are assessed by one of the department appointed examiner, according to one of the Faculty of natural sciences established routine.

A student who did not pass the examination, will be offered possibilities to take re-exams. Opportunities to supplement experimental parts are limited and are decided upon in consultation with the supervisor and the examiner.

If a student, who has failed the same examined component twice, wishes to change examiner before the next examination, a written application shall be sent to the department responsible for the course and shall be granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

If a student has a recommendation from the University of Gothenburg regarding special educational support, the examiner (in case it is compatible with the course's objectives and if not unreasonable resources are required) can decide to give the student an alternative examination form.

In cases where a course has been discontinued or has undergone major changes, the student shall normally be guaranteed at least three examination occasions (including the ordinary examination) during a period of at least one year, but maximum two years from the last time the course was given.

Grades

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U). The grade is assessed according to the guidelines and criteria developed by the Faculty of Science.

To pass (G) requires 30 points (50%) and the mean value for each of the five main criteria (1-5) should be at least 2 (Sufficient). To pass with distinction (VG) requires 51 points (85%), and that the report is submitted on time.

Concerning application of the ECTS scale for grade please see Vice-Chancellor's decision 28/05/2007, No. G 8 197/07 as well as 28/02/2011, No. O 2009/0554.

Course evaluation

A written evaluation is done at the end of the course. In the written evaluation, the student is anonymous. The results and possible changes to the course will be shared with students who participated in the evaluation and students who are starting the course.

Additional information

The course literature is determined individually for each project in consultation with the supervisor and examiner.

Where applicable: Travel to and from the research station represents additional costs for the student.