



DEPARTMENT OF MARINE SCIENCES

NMAR308 ACCESS Chile - Sweden Sustainable Aquaculture, 4 credits

ACCESS Chile - Sverige hållbart vattenbruk, 4 högskolepoäng

Third-cycle level / Forskarnivå

Confirmation

This syllabus was confirmed by the Department of Marine Sciences on 2022-03-28, and is valid from Spring semester 2022.

Responsible Department

Department of Marine Sciences, Faculty of Science

Entry requirements

For admission to the course, the applicant has to be admitted to third cycle education.

Learning outcomes

After completion of the course the Ph.D. student is expected to be able to:

Knowledge and understanding

1. Understand the importance of the aquaculture projects and their impacts in the three dimensions of sustainability: society, environment and economy.
2. Identify opportunities for improving sustainability in aquaculture by adopting specific types of cultures, practices, feed ingredients, and grow-out systems.

Competence and skills

1. Develop innovative tools to contribute to global sustainable development goals, including food security as well as management of the oceans and freshwater resources.
2. Build networks with other students and researchers in the field of sustainable aquaculture.

Judgement and approach

Develop the vocabulary and vision to explain key factors impacting sustainability in aquaculture projects.

Sustainability labelling

The course is sustainability-focused, which means that at least one of the course's learning outcomes clearly shows that the course content meets at least one of the University of Gothenburg's stipulated criteria for sustainability labelling. Content of this kind also constitutes the course's main focus.

Course content

The course is designed for graduate students who want to learn about sustainable aquaculture in order to (1) apply to more advanced coursework in marine or other aquatic sciences or (2) to prepare for graduate research or a career in aquaculture.

The contents are separated into key topics, each focused on relevant issues for sustainable aquaculture such as cultivation of mollusks, culture techniques, nutrition & feed ingredients, physiology and genetics, aquaponics, post-harvest processing.

The course is a collaboration between Sweden and Chile, with the goal is to share both Chilean and Swedish perspectives. Participating institutions: University of Chile, University of Gothenburg, Swedish University of Agricultural Sciences.

Types of instruction

Lectures combined with discussions and group work.

Language of instruction

The course is given in English.

Grades

The grade Pass (G) or Fail (U) is given in this course.

Types of assessment

Students will be evaluated through a student project (group work) and paper (individual work).

Course completion involves

- Attendance at lectures
- Seminar paper group discussions and reading assignments
- Student group projects
- Literature review, case studies and final writing assignment

Course evaluation

The course evaluation will be carried out through an online questionnaire.