

Degree Programme

6, 12 or 30 credit points (CP) per module according to ECTS-System

1	Anatomy and Biology of Fish 6 CP	Introduction to Aquaculture 6 CP	Habitat Sea 6 CP	Major area ²⁾ 6 CP	Major area ²⁾ 6 CP
2	Aquaculture Systems 6 CP	Technology of Fish Aquaculture 6 CP	Compulsory Elective area 1 ²⁾ 6 CP	Major area ²⁾ 6 CP	Major area ²⁾ 6 CP
3	Genome Biology and Pathobiology 6 CP	Aquaponic and Circular Economy 6 CP	Special Aquaculture Systems 6 CP	Compulsory Elective area 2 ³⁾ 12 CP	
4	Master Thesis Aquaculture 30 CP				

¹⁾ Major areas: Biology, Technology and Economics. In the Major area, modules with a scope of at least 24 CP must be taken.

²⁾ The scope of work for Compulsory Elective Modules in area 1 must amount at least 6 CPs.

³⁾ The scope of work for Compulsory Elective Modules in area 2 must amount at least 12 CP.



University Rostock

FACULTY OF AGRICULTURE,
CIVIL AND ENVIRONMENTAL
ENGINEERING

Programme Coordinator

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Aquaculture
(Master of Science)

FACULTY OF AGRICULTURE,
CIVIL AND ENVIRONMENTAL
ENGINEERING

Aquaculture (M.Sc.)

Degree

Master of Science (M.Sc.)

Programme type

Consecutive course of studies

Single compartment master (not combinable)

Standard duration of the programme

4 terms

Start of the programme

Every winter term (1st October)



Fields of study

Agricultural and Environmental Sciences

Mathematics / Natural Sciences / Engineering

Formal prerequisites

- First vocational qualifying degree in an agricultural and engineering science, food science, biology or business administration course with a final grade of at least 2.6,
- proof of English language proficiency (B2),
- proof of German language proficiency (B2).

Special notes

The study programme includes a two-month (large-scale) internship, which can be done in aquaculture enterprises, research institutions or authorities. It is possible to do the internship abroad.

Further qualification options at the University of Rostock

- Doctor of Agricultural Sciences (Dr. agr.)
- Doctor of Natural Sciences (Dr. rer. nat.)
- Doctor of Engineering Sciences (Dr.-Ing.)

Aquaculture (M.Sc.)

Subject and aim of the study programme

The aquaculture of marine and limnic organisms is a varied field of economy and research, with an increasing importance worldwide. This constantly developing industry requires highly qualified personnel, with a broad basic training and specialist knowledge, to look after aquaculture facilities and develop innovative concepts for future applications.

The Master's degree in Aquaculture is a **research-oriented** course of study with a total duration of two years.

Seven faculties of the University of Rostock as well as specialized non-university institutions are involved in the implementation of the **interdisciplinary** study programme.



Students are taught **specialist knowledge** of various disciplines, including the biology of the cultivated organisms, industrial production and plant-related implementation, as well as basic legal principles and business-oriented aspects.

A successful Master's degree qualifies students to meet the various requirements of aquaculture of marine and limnic organisms. Scientific specialists in this field are in demand - nationally and internationally.

Aquaculture (M.Sc.)

Structure of the programme

The modularised presence course of studies in aquaculture is offered with the **focus on biology, technology and economy** and is divided into a compulsory and an optional part.

Students acquire core competences in the field of fish aquaculture, sea ranching and gain an insight into special aquaculture methods. From the first semester onwards, the course of study can be structured according to individual skills, interests and required professional fields of application by taking elective modules. Students develop skills in business administration, technical system operation and fish health.

The third semester includes a **two-month (large-scale) internship**. The students carry out **independent project and research work** in a private or public aquaculture institution. This is intended to give an insight into the daily work routine and to prepare the implementation of the master thesis.

Furthermore, all students are recommended to take part in subject-specific or supplementary internships beyond of the university. The graduation of a **semester abroad** is possible from the second semester onwards.

The fourth semester is used for writing the **Master's thesis**; the preparation of the thesis abroad is supported. The graduates have very good career entry opportunities.

