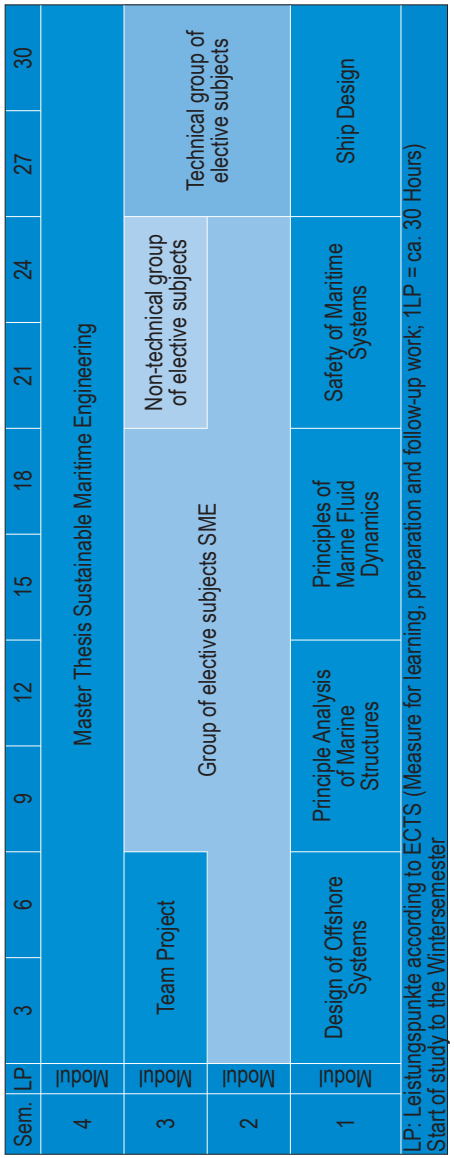
SCHEDULE



Universität Rostock Traditio et Innovatio

Universität Rostock

FACULTY OF MECHANICAL ENGINEERING AND MARINE TECHNOLOGIES

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September 2026

Universität Rostock Traditio et Innovatio

Sustainable Maritime Engineering

Master of Science

FACULTY OF MECHANICAL ENGINEERING AND MARINE TECHNOLOGIES

Sustainable Maritime Engineering (M.Sc.)
Sustainable Maritime Engineering (M.Sc.)

DEGREE & STANDARD DURATION OF STUDY

- Master of Science (M.Sc.) | 4 Semester

STUDY FORM & LANGUAGE

- post graduate studies (requires a first university degree)
- single-subject-course of study (cannot be combined)
- main teaching Language: Englisch

START OF STUDIES

- Winter semester (1. October)
- Summer semester (1. April)

FIELDS OF STUDY

- Engineering/ Computer Science

STUDIES REQUIREMENTS

- A first related university degree, with a minimum of 180 credit points/ECTS
  - at least 15 CP in Mathematics
  - at least 10 CP in Technical Mechanics
  - at least 5 CP in Fluid Mechanics/Hydrodynamics

  (Details are regulated by the study and examination regulations)
- English language skills at level B2 according to the Common European Framework of Reference for Languages

FURTHER QUALIFICATIONS

- The Masters Degree qualifies for a doctorate.

SUBJECT AND OBJECTIVES

How can we sustainably use our oceans? The international Master's program in Sustainable Maritime Engineering addresses this critical question by combining engineering with the challenges of sustainability. Whether focusing on low-emission shipping, intelligent underwater robotics, or renewable energy generation from the oceans, the program provides the knowledge to develop innovative solutions for a sustainable maritime future.

TARGET AUDIENCE

The program is designed for individuals passionate about the ocean and future technologies, with a strong interest in environmental issues and sustainability. Creativity, desire for international collaboration, and a love for technology are ideal prerequisites.

PROGRAM STRUCTURE AND SPECIALIZATIONS

Students must first complete a Bachelor's degree in engineering, such as mechanical engineering (duration typically 3 years). The subsequent Master's program spans 2 years, offering a combination of mandatory and elective courses with practice-oriented teaching methods. In addition to a comprehensive foundation in engineering, students can choose from three specializations:

- Naval Architecture: Design of modern, low-emission ships
- Ocean Engineering: Development of technical systems for marine applications, such as renewable energy generation.
- Underwater Technologies: Intelligent systems and robotics for underwater applications, including deep-sea exploration.

The program emphasizes teamwork in international settings and the application of theoretical knowledge to real-world projects. Field trips, laboratory work, and access to modern research infrastructures, such as the research vessel Limanda, enhance practical learning.

SPECIAL FEATURES - WHY ROSTOCK?

Through partnerships with the Ocean Technology Campus, Fraunhofer, and the Leibniz Institute for Baltic Sea Research Warnemünde, the program offers unique opportunities. Students gain access to cutting-edge research facilities and practical projects, such as the artificial reef at Nienhagen. The program's strong international focus, including a double-degree option with other European universities, makes it unique in Germany.

CAREER PROSPECTS AND OPPORTUNITIES

Graduates of the program are highly sought-after professionals equipped to shape the future of the maritime industry. They are qualified to work in various sectors, including shipbuilding, marine engineering, energy production, and environmental technologies, in companies, research institutions, international organizations or academia.