Profiles

The second year you choose one of the two profiles we offer. Your Master Thesis is based on the profile you choose.

Profile 1: Maritime Technology and Management (Haugesund/Norway)

- Subsea- and marine systems and -operations, ship operation and maintenance strategies/methods
- How environmental conditions may affect the operation and equipment
- Different surface vessels, Remotely Operated Vehicles (ROV's), diving systems and subsea production equipment
- Methods for prediction of weather windows and risk- and reliability analysis

Profile 2: Sustainable Maritime Operations (Leer/Germany)

- The technical aspect focuses on the forces of load and bouncy, wind, waves and hydrodynamics affecting the vessel, the design of the vessel and the operational and managerial aspects.
- The operational aspect focuses on the chain of computational maritime modelling and simulation techniques needed in maritime operations.
- The managerial aspect focuses on central themes concerning the organization and leadership of projects, as well as methods and techniques for analysis and management.

Contact

We will be happy to help you!

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DAAD Deutscher Akademischer Austauschdienst German Academic Exchange Service

Interested in the master programme?
More information can be found at
» www.maritimesciences.de

You can find more information on the degree programme page via the QR code or find out more in a personal chat with the programme coordinator Wenke Meyer.

VERY CLOSE TO IT.

Status: 03/2025

↪ Faculty of Maritime Sciences

Maritime Operations

Master of Science

Come closer » www.hs-emden-leer.de/en/

University of Applied Sciences HOCHSCHULE EMDEN·LEER

Western Norway University of Applied Sciences

Your career opportunities

The international aspects of ship technology, maritime operations and management are anchored in the international nature of the maritime industry. That is why the programme itself has an international dimension.

Maritime operations covered in the programme include technical and managerial aspects through operations related to ships, installations and subsea / offshore vessels, as well as operations above and below the waterline and along the coastline.

Graduates with their complete and updated knowledge will be a valued asset for the maritime industry both off- and onshore.

Examples of Jobs & Tasks:

- Consultancy work based on an understanding of operations and environmental systems plus economical and technical advisory capacity for maritime structures.
- Project management in companies within the maritime sector.
- Innovation and development tasks within the academic core competencies of the programme: environmental system analysis, maritime technology and finance.

The master programme

You acquire advanced competence within the different aspects related to maritime operations, with ship technology and management as supporting framework. The lectures are given in three to five intensive sessions each semester, which means that it may be possible to combine studies with work.

You will learn about:

- The technical aspect, such as ship stability and ship design
- The organizational aspect, such as the complex relationship between organizational, human and technical factors
- The operational aspect, such as subsea and other demanding maritime operations
- The managerial aspect, such as quality and safety management

The programme is a joint master between the University of Applied Sciences Emden/Leer (Germany) and the Western Norway University of Applied Sciences (Haugesund/Norway). The first semester is compulsory in Haugesund, Norway and the second semester compulsory in Leer, Germany. The two partner institutions provide each one profile that can be elected from the third semester: Maritime Technology and Management (Haugesund) or Sustainable Maritime Operations (Leer). This determines the location of study in the second study year.

Courseplan

1st semester (Haugesund/Norway)	Philosophy of Science, Research Design and Methods, Safety and Human Factors, Modern Ship Designs: Safety, Limitations and Hazards
2nd semester (Leer/Germany)	Maritime Computational Fluid Dynamics, Cost Accounting, Ship Propulsion Systems, Quality and Risk Management, Applied Approach to Tools of Optimization and Simulation
3rd and 4th semester	You can choose between two profiles - Maritime Technology and Management (Haugesund/ Norway) or Sustainable Maritime Operations (Leer/Germany).
3rd semester (Haugesund/Norway)	**Maritime technology and management:** Maritime Operations, Subsea Systems and Operations, Profile project, Ship Operations and Maintenance Systems
3rd semester (Leer/Germany)	**Sustainable Maritime Operations:** Technical Aspects of Sustainable Maritime Operations, Operational Aspects of Sustainable Maritime Operations, Economical Aspects of Sustainable Maritime Operations, Maritime Project
4th semester	Master Thesis

Admission requirements

The general admission requirement is a relevant bachelor's degree with 80 credits specialization in technical and/or nautical courses, or equivalent professional education. You must fulfil one of the following specific requirements:

- Bachelor degree in Mechanical Engineering, relevant courses, 180 credits or equivalent
- Bachelor degree in Nautical Science, relevant courses, 180 credits or equivalent
- Bachelor degree in Maritime Studies, relevant courses, 180 credits or equivalent

Applicants from outside the Nordic countries and Germany must provide evidence of their academic achievements and proficiency in English.

The Selection Committee will select the students on the basis of their relevant academic results (bachelor or equivalent). If two or more candidates are of similar ranking, the statement of Purpose/Motivation Letter will be taken into consideration upon selecting the candidates.

Application deadline

Non EU/EEA-applicants: December 1st
EU/EEA-applicants: April 15th

Start of study programme

The master's programme starts every year in August in Haugesund (Norway).

Teaching methods

The lectures are given in intensive sessions three to five weeks each semester. To complete the study programme it is expected that you are able to independently structure your studies. All lectures are taught in English.

The teaching methods vary, with lectures, solving exercises in groups and problem-based learning being the most common. In addition to individual work, group work is encouraged throughout the programme.

At https://maritimes-technikum.mixality.de/ you can take a virtual tour through our Maritime Technology Centre in Leer (Germany).