

# 1. The Faculty of Maritime Sciences

## 1.1 Address

Hochschule Emden/Leer  
University of Applied Sciences Emden/Leer

Faculty of Maritime Sciences

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## 1.2 Academic Calendar

It is advisable to arrive at Leer a few weeks before the lectures start. You may register early and take part in a German language course. Furthermore, you will get accustomed to your life in Leer and meet other students.

Winter semester	September, 1 <sup>st</sup> – February, 28 <sup>th</sup>
Summer semester	March, 1 <sup>st</sup> – August 31 <sup>st</sup>

Lectures start on first Monday in March and on Monday following September, 20<sup>th</sup>, respectively. The lecturing periods are:

Winter semester	September, 20 <sup>th</sup> – January, 31 <sup>st</sup>
Summer semester	March, 1 <sup>st</sup> – July, 10 <sup>th</sup>

Final exams take place at the end of each lecturing period, usually within the last three weeks. The local examination committee will inform students at the beginning of each semester about the exam organisation.

Additional Holidays are around Christmas (2 weeks), Easter (2 days), May, 1<sup>st</sup>, October, 3<sup>rd</sup> and October 31<sup>st</sup>.

## 1.3 General Description of the Faculty of Maritime Sciences at Leer

The University of Applied Sciences Emden/Leer is one of the legal successors of the Fachhochschule Oldenburg/Ostfriesland/Wilhelmshaven which was founded in 2000 by merging the three northwestern Universities of Applied Sciences at Emden and Leer, Oldenburg and Elsfleth as well as Wilhelmshaven. In 2009 this big university was split into two universities, one of them being our University of Applied Sciences.

A Maritime Institution at Leer was in fact founded in 1854 as a Maritime Academy and became part of the Ostfriesland University of Applied Sciences in 1973.

Today there are about 300 students studying at Leer. The teaching staff consists of 11 professors and about 20 maritime lecturers.

The Faculty of Maritime Sciences at Leer offers the following study courses:

- Nautical Science and Maritime Transport (B.Sc.), with the certificate of competency for a Master Mariner according to STCW 2010 convention.
- Maritime Technology and Maritime Transport (B.Sc.)
- Maritime Engineering and Management (B.Sc.)
- Maritime Operations (M.Sc.), a joint master study programme between the Western Norway University of Applied Sciences and the University of Applied Sciences Emden/Leer.

The language of instruction in the Bachelor study programmes starting in the winter semester is German. There are, however, some modules presented in English regularly. Additionally, Nautical Science and Maritime Transport (B.Sc.) starting in the summer semester is entirely taught in English. The Master programme is also entirely taught in English.

## **2. B.Sc. Maritime Engineering and Management**

The practice-oriented and multifaceted study course opens up excellent future prospects for students. As a maritime industrial engineer, they can work for shipping companies, shipyards, the entire maritime industry, international logistics companies or in the offshore industry. With this broad-based degree programme, students are also extremely interesting for other sectors. And of course, they can also complete a Master's degree after having earned a Bachelor's degree.

In today's working world, it is becoming increasingly important to have a technical understanding of processes and products and at the same time to be able to make a commercial assessment. That is why students will acquire extensive engineering and economic skills during their studies, both with a focus on maritime issues. The course content ranges from fluid mechanics and logistics to ship propulsion and environmental technology, all the way to applied corporate management. The focal points of conveying expertise lie in the fields of maritime operations, sustainable maritime mobility and offshore technologies. This puts students very close to topics such as climate protection, energy turnaround and digitization, and they can already participate in sustainable, innovative future projects during their studies. A practical semester is also part of the study course and provides them with important practical experience as well as valuable contacts.

As a maritime industrial engineer, students have the best career prospects, be it on a regional, national or international level. Equipped with technical and economic know-how as well as special maritime knowledge, they will become a sought-after specialist in a growing industry of the future.

Students can work for shipping companies, shipyards, the entire maritime (supply) industry, logistics companies or in the offshore energy sector. As an industrial engineer they also have everything they need to start a career in other sectors at the interface between technology and business management.

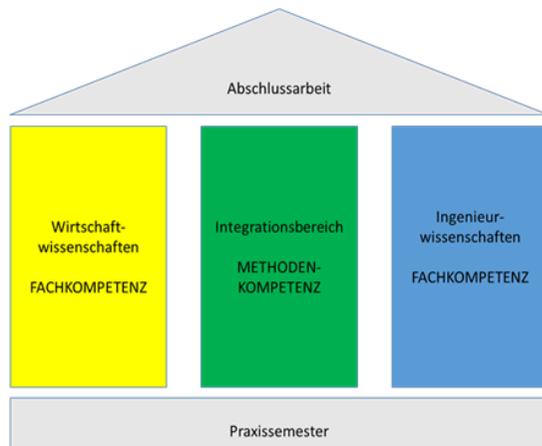
Thanks to the future-oriented focus of the study course students have many opportunities to help shape the sustainable development of the maritime world. After their studies, they can, for example, plan offshore wind farms as a project engineer, develop propulsion systems for the maritime transport of the future or, as an environmental officer on cruise ships, ensure that global regulations are complied with.

As the maritime industry is highly internationalised, it is an important objective of the Faculty to not only provide students with excellent English language skills but also to improve their intercultural awareness and their ability to gain access to foreign cultures. The Faculty to reach these objectives by supporting students in completing part of their studies abroad. In this respect the Faculty features a European network of partner institutions (located e.g. in Finland, France, Ireland, Latvia, Norway, Spain etc.) for students to choose from. Students can also choose from a variety of overseas partner institutions of our university (e. g. Vancouver Island University in Canada, Universidad San Ignacio de Loyola in Lima, Peru etc.).

The following table provides an overview over the Maritime Engineering and Management course (given in German) according to the exam regulations of 2023.

### Curriculum Maritime Engineering and Management (given in German)

	1. Sem	LVS	ECTS	2. Sem	LVS	ECTS	3. Sem	LVS	ECTS	4. Sem	LVS	ECTS	5. Sem	LVS	ECTS	6. Sem	LVS	ECTS	7. Sem	LVS	ECTS
<b>Business Competency</b>	General Business Management	4	5	Controlling und Cost Accounting	4	5	Investment and Financing of Maritime Projects	4	5	Supply Chain Management	4	5	Practical Semester	30	30	Applied Management (Business Game)	4	5	Compulsory Elective Module 2 - Economy	4	5
<b>Business Competency</b>	Private Economic Law	4	5	Human Resource Management	4	3 + 2 SCP	Fundamentals of Logistics	4	5	Maritime Transport Law	4	5				Compulsory Elective Module 1 - Economy	4	5	Compulsory Elective Module 3 - Economy	4	5
<b>Engineering Competency</b>	Fluid Mechanics	4	5	Fundamentals of Mechanical Engineering	4	5	Ship Theory	4	5	Fundamentals of Electrical Engineering and Sensor Technology	4	5				Ship Propulsion and Operation Systems	4	5	Compulsory Elective Module 2 - Engineering	4	5
<b>Engineering Competency</b>	Technical Mechanics 1 (Statics, Strength)	4	5	Technical Mechanics 2 (Classical Mechanics)	4	5	Thermodynamics and Materials Science	4	5	Hydraulic and Maritime Environmental Engineering	4	5				Compulsory Elective Module 1 - Engineering	4	5	Compulsory Elective Module 3 - Engineering	4	5
<b>Methodological Competency</b>	Mathematics 1	4	5	Mathematics 2	4	5	Maritime English and Presentation Techniques	4	5	Numerical Methods (FEM and CFD)	4	5				Quality Management Systems	4	5	Bachlor Thesis	10	
<b>Methodological Competency</b>	Computer Science	4	5	Statistical Methods	4	5	Administration and Maritime Environmental Protection	4	5	Innovation and Project Management	4	5				Risk Management	4	5			
<b>Summe = 210 ECTS</b>		<b>24</b>	<b>30</b>		<b>24</b>	<b>30</b>		<b>24</b>	<b>30</b>		<b>24</b>	<b>30</b>			<b>30</b>		<b>24</b>	<b>30</b>		<b>16</b>	<b>30</b>



Possible/Potential Compulsory Elective Modules - Engineering	LVS	ECTS	Possible/Potential Compulsory Elective Modules - Economy	LVS	ECTS
Ship Design	4	5	Basics of Marketing	4	5
Ship Construction	4	5	Maritime Economics	4	5
Marine Engineering Design/Construction	4	5	Strategic Corporate Management	4	5
Technical Environmental Management	4	5	Contract Design and Management	4	5