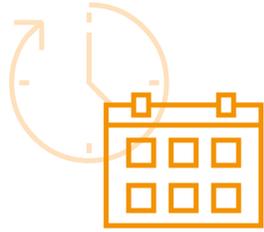


Start of studies

Admission takes place in the summer and winter semester.



Information for first-semester students at
» www.hs-empden-leer.de/en/sl/firstsemester

Admission

Admission requires a first degree qualifying the student for a profession (bachelor's degree or diploma) in chemical engineering, environmental engineering, biotechnology, or a related degree program. Further details are provided in the admission regulations.



Current enrollment details can be found at
» www.hs-empden-leer.de/en/sl/enrollment

Course of studies

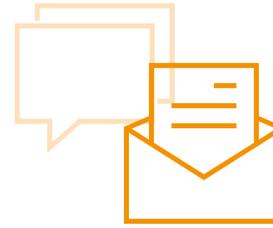
1st -
2nd semester

Compulsory modules and elective modules on analytics or process engineering

3rd semester

Master's thesis

Contact



We will be happy to help you!

For general questions:
Student advisory service

Phone +49 4921 807-7575
» zsb@hs-empden-leer.de

For questions about the degree program:

Faculty of Technology
Department of Natural Sciences
Phone +49 4921 807-1591, 92, 95
» sekretariat.n.technik@hs-empden-leer.de



Interested in the degree program?
More information is available at
» www.hs-empden-leer.de/en/sl/mals

or come and see us in Emden. Visit the university and its laboratories, and find out more in a personal conversation.



COME CLOSER TO SUCCESS

Status: 05.2021



↳ Technology

Applied Life Sciences

- » Analytics
- » Process Engineering

Master of Engineering (M.Eng.)

Come closer » www.hs-empden-leer.de





Your future career

This degree program offers you excellent and varied career prospects, according to your chosen specialization: Experts in applied analytics are in great demand, especially in industry and research, as well as in analytical laboratories, equipment manufacturers, and public authorities. When you specialize in process engineering, you will find excellent prospects in companies that deal with research and biotechnology, the chemical and environmental chemical industries, and environmental technology as well as their suppliers and consulting companies. Agencies and associations offer further career opportunities.

Your study program

This degree program covers the fields of analytics and process engineering, and leads you to the Master of Engineering (M.Eng.) degree over three semesters. During the first two semesters, you will learn the basics of modern working methods and special topics in the elective modules. Non-technical subjects, such as quality management and languages, complement your studies. In the 3rd semester, you complete your studies with the master's thesis. This internationally oriented program is run in partial cooperation with the University of Oldenburg, and some modules are taught in English.

Field of study: Analytics

Modern analytics develops and uses methods to determine the composition of substances, their structure, and the smallest concentrations of substances in sometimes very complex matrices. In addition to classical chemical analytics, it also uses methods from physics, biology, and other disciplines. Analytical methods are used in many different ways: in quality control (technical products, food); in environmental protection and environmental analysis (soil, drinking and waste water, air, waste); in residue analysis (heavy metals, pesticides); in medicine (biochemical analysis, drugs); and in natural substance analysis.

Field of study: Process engineering

The development and optimization of chemical and biotechnological processes combines knowledge from the fields of chemistry, biology, process engineering, and modelling. Through modules in the area of process development and process control, you will deepen your knowledge of the transfer of chemical syntheses or biotechnological processes to industrial production. Selected current topics (cell culture technology, renewable raw materials) open up a wide range of career prospects for you.



Your place of study: Emden

Cozy, manageable, quaint, and yet not boring: this is Emden's attitude to life. Here, everything can be reached by bicycle without the hustle and bustle of the city. Sailing, surfing, and exploring East Frisia by canoe are great ways to relieve the stress of studying. A lively pub scene, numerous street cafés around the market, and highlights such as the city and film festivals or blues night are guaranteed to keep you entertained. The Emden Kunsthalle, Otto Waalkes, and the rich East Frisian cultural landscape with its increasing number of festivals and events are rightly known far beyond the region. East Frisia remains a very popular holiday region for its islands as well as its guaranteed view of the horizon. Even after studying all over the world, our students quickly feel at home in Emden.

Degree

Upon successful completion of the program, you will receive the internationally recognized academic title Master of Engineering (M.Eng.). This opens the way to a doctorate, working on research projects at the University of Applied Sciences Emden/Leer in cooperation with a university authorized to award doctorates. In addition, the degree offers you varied career prospects.