

Study program

3, 6 or 12 credit points (CP) per module according to ECTS-System

1	Structural Mechanics 1: Engineering Mechanics 6 CP	Computer Science 1: Programming & Databases 6 CP	Mathematics 1: Fundamentals & Unidimensional Analysis 6 CP	Basics of Chemistry 6 CP	Environmental Physics, Chemistry and Analytics 6 CP	CM <sup>1)</sup> 3 CP	R&P <sup>2)</sup> 3 CP
2	Structural Mechanics 2: Mechanics of Materials 6 CP	Computer Science 2: CAD and BIM 6 CP	Mathematics 2: Linear Algebra & Geometry 6 CP	Basics of Site Evaluation and Ecology 6 CP	Technical Hydromechanics 6 CP		
3	Soil Physics for Environmental Engineering Sciences 6 CP	Geotechnical Engineering 1: Soil Mechanics 6 CP	Hydrology and Meteorology 6 CP	Sustainable Energy Production 6 CP	Environmental Process Engineering 6 CP		
4	Applied Landscape Ecology 6 CP	Design Theory and Basics of Spatial Planning 6 CP	Geodesy 6 CP	Geoinformatics/GIS 6 CP	Environmental Process Engineering 6 CP		
5	Introduction in Circular Economy 6 CP	Introduction to Urban Water Management 6 CP	Stream and River Regulation, Coastal Engineering and Flood Protection 6 CP	Legal and Economics Basics 6 CP	Analysis of Environmental Data 6 CP		
6	Bachelor Thesis Environmental Engineering Sciences 12 CP		Compulsory Elective Module <sup>3)</sup> 6 CP	Compulsory Elective Module 6 CP	Compulsory elective Module 6 CP		

<sup>1)</sup> CM - Construction Materials <sup>2)</sup> R&P - Environmental Engineering Sciences in Research and Practice <sup>3)</sup> Compulsory Elective Modules amounting to 18 CP must be taken.

University of Rostock

FACULTY OF AGRICULTURE, CIVIL AND ENVIRONMENTAL ENGINEERING

Programm Coordinators

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Environmental Engineering Sciences

(Bachelor of Science)

FACULTY OF AGRICULTURE, CIVIL AND ENVIRONMENTAL ENGINEERING

## Environmental Engineering Sciences (B.Sc.)

### Degree

Bachelor of Science (B.Sc.)

### Type of Study

Basic study course with a first job qualifying degree  
Single compartment bachelor (not combinable)

### Standard course duration

6 Semester

### Beginn of Study

For winter term (01.10.)



### Fields of Study

Environmental and Engineering Sciences

### Formal prerequisites

- university entrance qualification (e.g. Abitur certificate),
- proof of German language proficiency (B2),

### Special notes

Before being admitted to the final examination, students must provide evidence of having completed an internship in "practical environmental practice" lasting at least eight weeks. It is recommended that at least four weeks of this internship be completed before the start of the degree programme. On request, a completed vocational training can be recognized as an internship.

### Further option of qualification at the University of Rostock

- Environmental Engineering Sciences (M.Sc.)

### Enrolment for first term students

at [www.uni-rostock.de](http://www.uni-rostock.de) from 1<sup>st</sup> June to 30<sup>th</sup> September.

## Environmental Engineering Science (B.Sc.)

### Object and the aim of the study programme

The undergraduate degree course „Environmental Engineering Sciences“ offers a basic training to be able to address and solve environmental issues in a holistic way.

Environmental engineers have an application-oriented knowledge for the design and implementation of engineering structures, applications in environmental process engineering, urban water management, waste and recycling management, rural water management, environmental data acquisition and processing, integral rural planning as well as renewable energies. They are able to plan facilities and measures to shape and to protect the environment.



The Rostock study programme differs from other environmental engineering studies by focusing on the peculiarities of rural and coastal regions. The questions and solutions to be addressed here are relevant in many regions around the world.

The course is assigned to the Faculty of Agriculture, Civil and Environmental Engineering and cooperates with the Faculty of Mathematics and Natural Sciences, the Faculty of Computer Science and Electrical Engineering and also the Faculty of Mechanical Engineering and Marine Technology.

## Environmental Engineering Sciences (B.Sc.)

### Structure of study programme

The undergraduate course in Environmental Engineering Sciences is a modularized course of studies. The study is divided into a compulsory and compulsory elective area. The compulsory modules comprise 27 modules with 162 credits. Furthermore, the student must attend compulsory elective modules with 18 credits.

Natural sciences, mathematical and engineering basics from the fields of construction, water management and process engineering as well as ecological, economic and legal key competences are taught. Based on this, the

students are introduced to the essential fields of application of environmental engineering. As an alternative to the study program, the undergraduate degree course in environmental engineering enables students to complete a semester at a foreign university. It is recommended to take an internship abroad in the 6th semester.

### What comes after your studies?

Typical fields of activity of the environmental engineer are for companies in the supply and disposal sector, the construction industry, environmental engineering, planning offices and consultancies, water and soil associations or in the public sector as well as in science.

In addition, the bachelor's programme is followed by a master's degree course „Environmental Engineering Sciences“ which allows further deepening and specialization.

